

Equipment Manual

Vol.2



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

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Forklift

Tele
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Motor Grader

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Contents

Crawler Crane	Crawler Crane
55t 7055	55t KOBELCO 7055 P003
80t CKS800	80t KOBELCO CKS800 P017
90t CKS900	90t(100t) KOBELCO CKS900 P039
135t CKS1350	135t KOBELCO CKS1350 P059
180t CKE1800	180t KOBELCO CKE1800 P103
250t CKE2500-2	250t KOBELCO CKE2500-2 P127
Rough Terrain Crane	Rough Terrain Crane
25t GR-250N-2	25t TADANO GR-250N-2 P163
30t GR-300EX	30t TADANO GR-300EX P177
50t GR-500EXL	50t TADANO GR-500EXL P189
60t GR-600EX	60t TADANO GR-600EX P205
80t GR-800EX	80t TADANO GR-800EX P221
All Terrain Crane	All Terrain Crane
160t ATF160G-5	160t TADANO ATF160G-5 P237
200t LTM1200-5.1	200t LIEBHERR LTM1200-5.1 P267
220t ATF220G-5	220t TADANO ATF220G-5 P287
Aerial Platform	Aerial Platform
Boom Lift	Boom Lift 38m,26m,24m,18m P309
Scissors Lift	Scissors Lift 9.8m P315
Others	Others
Truck Mounted Crane	Truck Mounted Crane P317
Forklift	Forklift P329
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Crawler Crane 55t 7055

Manual PDF

Crawler Crane
55t 7055
(KOBELCO)



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All Terrain Crane

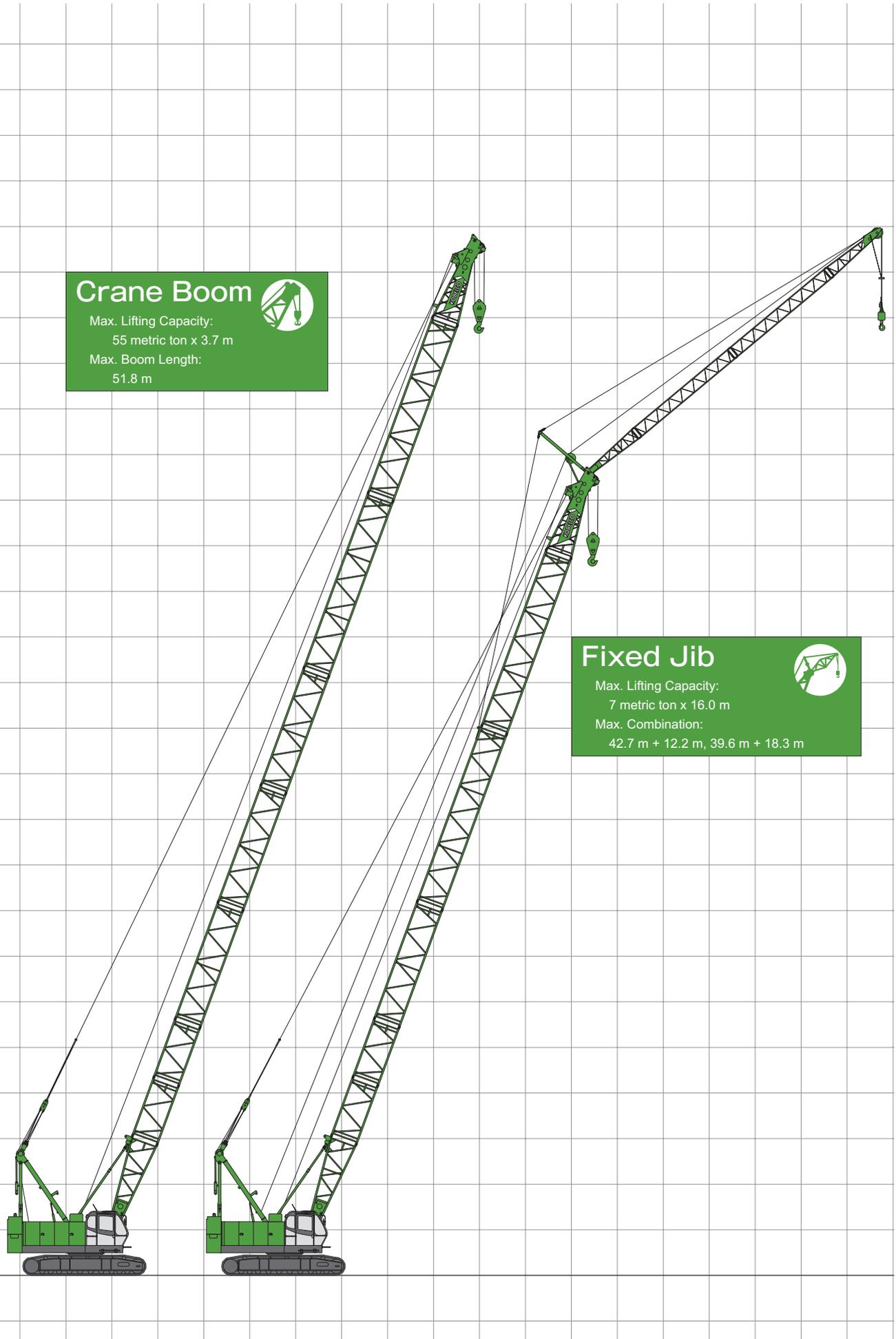
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Crane Boom 

Max. Lifting Capacity:
55 metric ton x 3.7 m

Max. Boom Length:
51.8 m

Fixed Jib 

Max. Lifting Capacity:
7 metric ton x 16.0 m

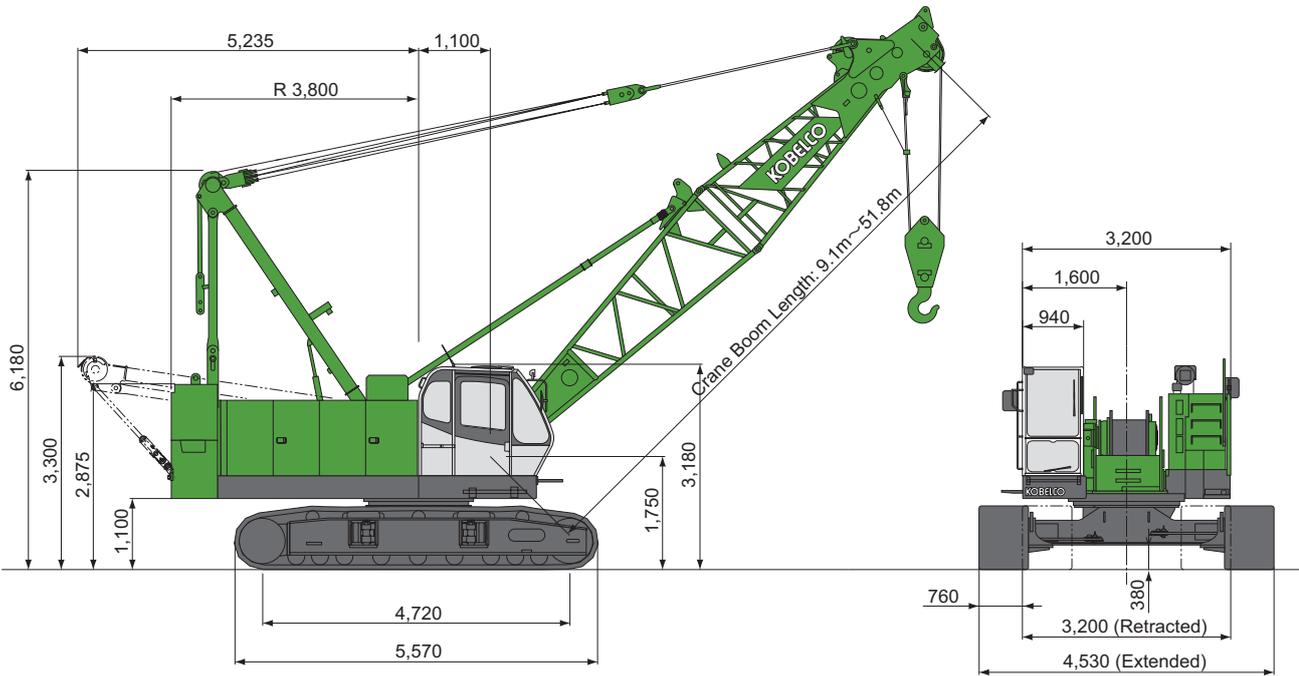
Max. Combination:
42.7 m + 12.2 m, 39.6 m + 18.3 m

General Dimensions

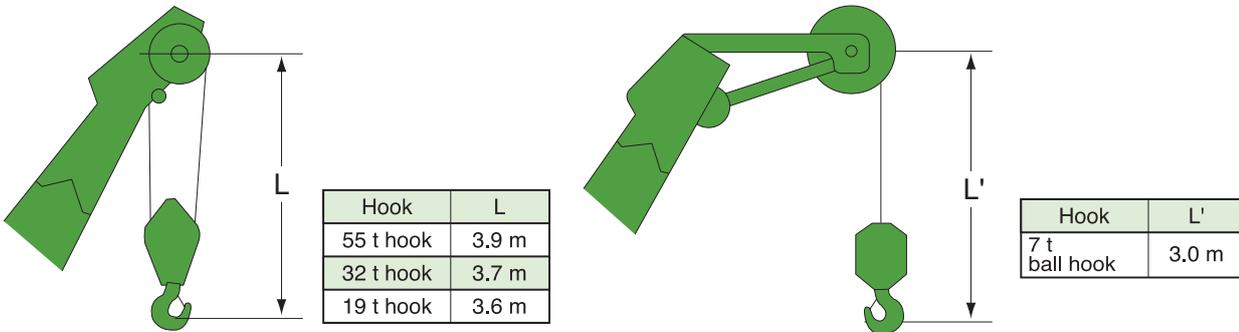
55t
7055

Crane Boom

(Unit: mm)



Limit of Hook Lifting



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Specifications



Power Plant

Model:Hino diesel engine J08E-TM
Type:Water-cooled, direct fuel injection, with turbocharger
 Complies with NRMM (Europe) Stage IIIA and US EPA Tier III.
Displacement:7.684 liters
Rated Power:159 kW at 2,000 min⁻¹{rpm} (ISO)
Max. torque:797 N·m/1,600 min⁻¹
Cooling system:Liquid, recirculating bypass
Starter:24 V/5.0 kW
Radiator:Corrugated type core, thermostatically controlled
Air cleaner:Dry type with replaceable paper element
Throttle:Electric throttle control, twist grip type
Fuel filter:Replaceable paper element
Batteries:Two 12V,136Ah/5HR capacity batteries, series connected.
Fuel tank capacity:400 liters



Hydraulic System

Three variable displacement piston pumps are driven by heavy-duty pump drive. Two of variable displacement pumps are used in the main hook hoist circuit, boom hoist circuit, auxiliary hook hoist circuit, third hoist circuit and each propel circuit. The other is used in the swing circuit.
Control:Full-flow hydraulic control system for infinitely variable pressure to front and rear drums, boom hoist brakes and clutches. Controls respond instantly to the touch, delivering smooth function operation.
Cooling:Oil-to-air heat exchanger (plate-fin type)
Filtration:Full-flow and bypass type with replaceable element
Electrical system:All wiring corded for easy servicing, individual fused branch circuits.

Max. relief valve pressure:
Load hoist, boom hoist and propel system:
 31.9 MPa {325 kgf/cm²}
Swing system:27.5 MPa {280 kgf/cm²}
Control system:7.0 MPa {71 kgf/cm²}

Reservoir capacity: 440 liters



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.
Brake:A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.
Drum lock:External ratchet for locking drum.
Drum:Single drum, grooved for 16 mm dia. wire rope.
Line speed:Single line on first drum layer
 Hoisting/Lowering:70 to 2 m/min

Diameter of wire ropes
Boom guy line:30 mm
Boom hoist reeving:12 parts of 16 mm dia.high strength wire rope

Boom backstops:Telescopic type with spring bumper
 Required for all boom lengths



Load Hoist System

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.
Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve.

Drum lock:External ratchet for locking drum.

Drums:

Front drum:

550 mm P.C.D. x 545 mm Lg. wide drum, grooved for 22 mm wire rope. Rope capacity is 175 m working length and 335 m storage length.

Rear drum:

550 mm P.C.D. x 545 mm Lg. wide drum, grooved for 22 mm wire rope. Rope capacity is 125 m working length and 335 m storage length.

Note: Rope lengths listed above denote drum capacity and may differ from actual rope lengths supplied when machinery is shipped.

Line speed:Single line on the first drum layer

Hoisting/Lowering:120 to 3 m/min

Tower Jib Hoisting/Lowering:90 to 3 m/min(Rear drum)

Line Pull:

Rated line pull (Single-line):68.6 kN {7.0 tf}



Swing System

Swing unit is powered by hydraulic motor driving spur gear through planetary reducer, the swing system provides 360° rotation.

Swing parking brakes:A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle:Single-row ball bearing with an integral internally cut swing gear.

Swing lock:Manually, two position lock for transportation

Swing speed:4.0 min⁻¹{rpm}



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine with low noise level.

Counterweight:15.2 ton

Additional counterweight:3.3 ton

Note: Additional counterweight is required when raising or lowering the tower length of 42.4 m.

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Aerial Platform

Boom Lift

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Motor Grader



Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a head-rest and armrests, and intermittent wiper and window washer (skylight and front window).

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, foot-rest, shoe tray

Controls:

Four adjustable levers for front drum, rear drum, boom drum and swing controls



Lower Structure

Steel-welded carbody with axles. Crawler assemblies can be hydraulically extended for wide-track operation or retracted for transportation. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoes (flat): 59 shoes, 760 mm wide each crawler

Max. travel speed: 2.2/1.5 km/h

Max. gradeability: 40%



Weight

Including upper and lower machine, 15.2 ton counterweight, basic boom (or basic tower + basic tower jib), hook, and other accessories.

Specification	Weight	Ground pressure
Crane boom	Approx. 56.7 ton,	72.3 kPa {0.74 kgf/cm ² }
Tower jib	Approx. 60.6 ton,	77.3 kPa {0.79 kgf/cm ² }



Attachment

Boom and Jib:

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections.

Boom and Jib Length

	Min. Length (Min. Combination)	Max. Length (Max. Combination)
Crane Boom	9.1 m	51.8 m
Fixed Jib	30.5 m + 6.1 m	42.7 m + 12.2 m 39.6 m + 18.3 m
Tower Jib	21.0 m + 16.8 m	42.4 m + 29.0 m

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Main Specifications (Model: 7055-3F)

Crane Boom	
Max. Lifting Capacity	55t/3.7m
Max. Length	51.8m
Fixed Jib	
Max. Lifting Capacity	7t/16.0m
Max. Combination	42.7m + 12.2m, 39.6m + 18.3m
Tower Jib	
Max. Lifting Capacity	12t/10.0m
Max. Combination	42.4m+29.0m
Tower Angle	60° ~ 90°
Main & Aux. Winch	
Max. Line Speed	120m/min (1st layer)
Rated Line Pull (Single Line)	68.6kN{7.0tf}
Wire Rope Diameter	22mm
Wire Rope Length	Crane 175m (Main) 125m (Aux.) Tower 220m (Main) 120m (Aux.)
Brake Type	Spring-set hydraulically released
Working Speed	
Swing Speed	4.0min ⁻¹ {rpm}
Travel Speed	2.2/1.5 km/h

Power Plant	
Model	Hino J08E-TM
Engine Output	159 kW/2,000 min ⁻¹ {rpm}
Fuel Tank Capacity	400 liters
Hydraulic System	
Main Pumps	3 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm ² }
Hydraulic Tank Capacity	440 liters
Weight	
Operating Weight*	Approx. 56.7 t
Ground Pressure*	72.3 kPa{0.74 kgf/cm ² }
Counterweight	15.2t
Transport Weight**	40.2t

* Including upper and lower machine, 15.2 ton counterweight, basic boom, hook, and other accessories.

** Base machine with boom base, crawlers, gantry, lower spreader, upper spreader, wire ropes for main and boom hoist winches.

Units are SI units. {} indicates conventional units.

Boom And Jib Arrangements

Crane Boom Arrangements

Boom length m (ft)	Boom arrangement
9.1 (30)	
12.2 (40)	※
15.2 (50)	※
18.3 (60)	※
21.3 (70)	※
24.4 (80)	※
27.4 (90)	※
30.5 (100)	※

Boom length m (ft)	Boom arrangement
33.5 (110)	※
36.6 (120)	※
39.6 (130)	※
42.7 (140)	※
45.7 (150)	※
48.8 (160)	※
51.8 (170)	※

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Others

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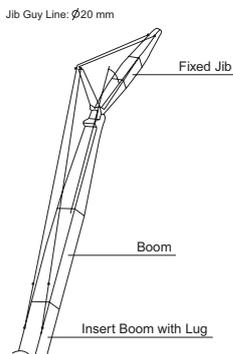
Symbol	Boom Length	Remarks
	5.2 m	Boom Base
	3.9 m	Boom Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	6.1 m	Insert Boom with Lug
	9.1 m	Insert Boom
	9.1 m	Insert Boom with Lug

↗ mark shows the guy line installing position when the fixed jib is used.
※ mark shows the standard boom arrangement which enables each boom length of less than that boom length to be configured.

Note: In the following cases a 6.1 m or 9.1 m insert boom with lug is required:

1. With a fixed jib fitted
2. When assembling a boom length of 39.6 m or over without using an auxiliary crane

Fixed Jib Arrangements



Crane boom length	Jib length m (ft)	Jib arrangement
30.5 m	6.1(20)	
42.7 m	12.2 (40)	
30.5 m } 39.6 m	18.3 (60)	

Symbol	Jib Length	Remarks
	3.0 m	Jib Base
	3.0 m	Jib Top
	6.1 m	Insert Jib

Tower Arrangements

Tower length m (ft)	Tower arrangement
21.0 (69)	
24.1 (79)	※
27.1 (89)	※
30.2 (99)	※
33.2 (109)	※
36.3 (119)	※
39.3 (129)	※
42.4 (139)	※

Symbol	Tower Length	Remarks
	5.2 m	Boom Base
	0.6 m	Tower Cap
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	9.1 m	Insert Boom
	9.1 m	Special Insert Boom for Tower

※ mark shows the standard tower arrangement which enables each tower length of less than that tower length to be configured.

Tower Jib Arrangements

Jib length m (ft)	Jib arrangement
16.8 (55)	
19.8 (65)	※
22.9 (75)	※
25.9 (85)	※
29.0 (95)	※

Symbol	Tower Jib Length	Remarks
	4.6 m	Tower Jib Base
	3.1 m	Tower Jib Top
	3.0 m	Tower Insert Jib
	6.1 m	Tower Insert Jib

※ mark shows the standard tower jib arrangement which enables each tower jib length of less than that jib length to be configured.
○ mark indicates the cable roller install position.

Tower and Jib Combinations and Allowable Tower Angle

Tower length \ Jib length	16.8 m	19.8 m	22.9 m	25.9 m	29.0 m	Pillow plate	Add. weight*
21.0 m	90°-60°	90°-60°	—	—	—	—	x
24.1 m	90°-60°	90°-60°	90°-60°	—	—	—	x
27.1 m	90°-60°	90°-60°	90°-60°	90°-60°	—	—	x
30.2 m	90°-60°	90°-60°	90°-60°	90°-60°	90°-70°	—	x
33.2 m	90°-60°	90°-60°	90°-70°	90°-70°	90°-70°	—	x
36.3 m	90°-60°	90°-70°	90°-70°	90°-70°	90°-70°	—	x
39.3 m	90°-70°	90°-70°	90°-70°	90°-70°	90°-70°	Need	x
42.4 m	90°-70°	90°-70°	90°-70°	90°-70°	90°-75°	Need	Need
Hook	19 ton hook	○	○	○	○	X	
	Ball hook	x	○	○	○		
Jib Point Weight	19 ton hook	Need	x	x	x		
	Ball hook	x	Need	x	x		

*Add. weight: Additional weight for self-erection

○ : Available
x : Not available

Hook Blocks

A range of hook blocks can be specified, each with a safety latch.

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)							
			1	2	3	4	5	6	7	8
55-ton	650	5	-	-	21.0	28.0	35.0	42.0	49.0	55.0
32-ton	500	2	-	-	21.0	28.0	32.0	-	-	-
19-ton	400	1	-	14.0	19.0	-	-	-	-	-
7-ton ball hook	160	0	7.0	-	-	-	-	-	-	-

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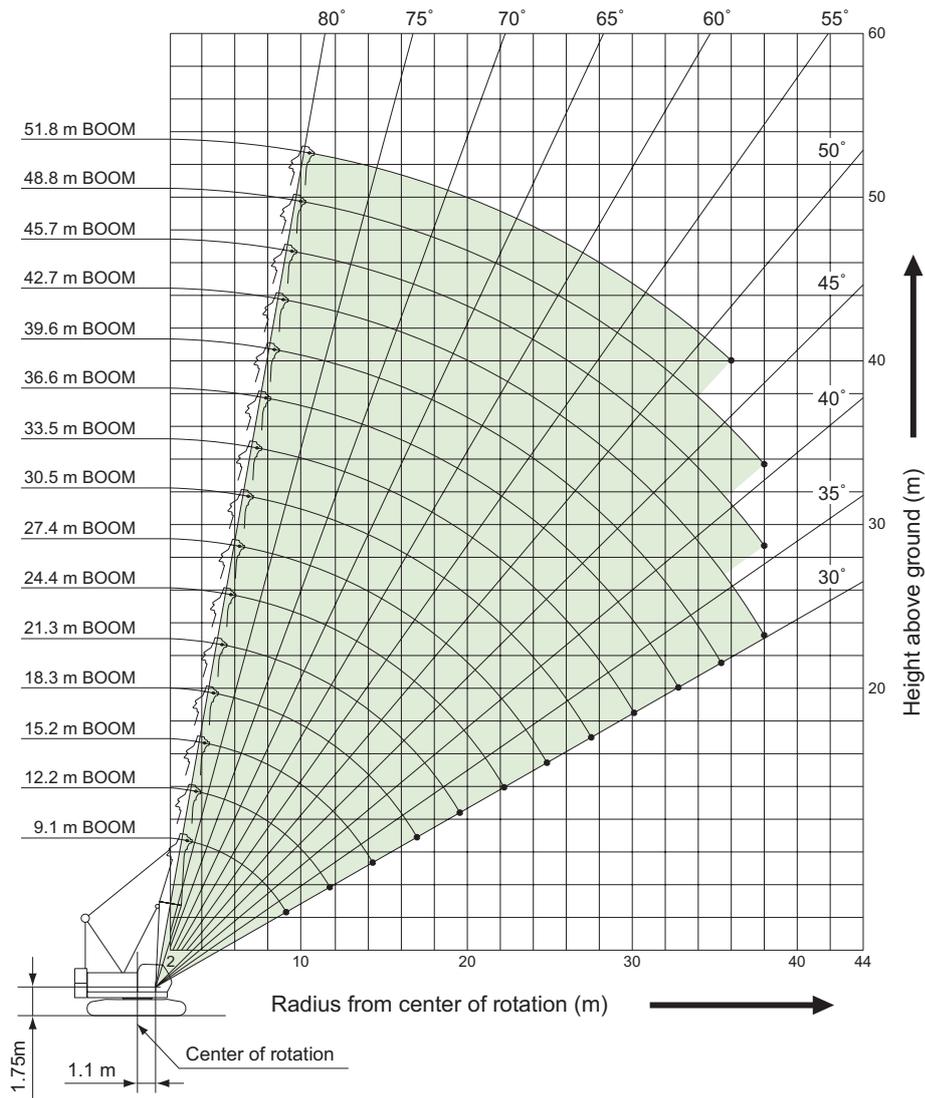
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Working Ranges And Lifting Capacities

Crane Boom Working Ranges



NOTES:

1. Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 12 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. Crawler frames must be fully extended for all crane operations.
13. Ratings shown in are determined by the strength of the boom or other structural component.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Crane boom ratings: Deduct weight of main hook block, slings, and all other load handling accessories from crane boom ratings shown.
16. Auxiliary sheave ratings for crane boom: Deduct weight of ball hook, slings, and all other load handling accessories from auxiliary sheave ratings for crane boom shown.
17. Crane boom lengths for auxiliary sheave mounting are 9.1 m to 48.8 m.
18. Crane boom ratings with auxiliary sheave: Deduct 0.5 ton from crane

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Crane Boom Lifting Capacity

Unit: metric ton

Counterweight: 15.2 t

Working radius (m)	Boom length (m)															Working radius (m)
	9.1	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	
3.0	55.0	3.5 m/55.0														3.0
3.7	55.0	55.0														3.7
4.0	50.7	50.7	50.7	4.5 m/44.3												4.0
5.0	38.5	38.4	38.3	38.3	37.7	5.6 m/31.6										5.0
6.0	28.7	28.6	28.5	28.5	28.4	28.4	6.1 m/27.6	6.6 m/24.2								6.0
7.0	22.8	22.7	22.6	22.6	22.5	22.4	22.4	22.3	7.2 m/21.3	7.7 m/19.2						7.0
8.0	18.9	18.8	18.6	18.6	18.5	18.5	18.4	18.4	18.3	18.2	8.2 m/17.4	8.7 m/15.8				8.0
9.0	16.1	15.9	15.8	15.8	15.7	15.6	15.6	15.5	15.4	15.4	15.3	15.2	9.3 m/13.2	9.8 m/13.2		9.0
10.0	9.1 m/15.9	13.8	13.7	13.6	13.5	13.5	13.4	13.4	13.3	13.2	13.1	13.1	13.0	12.9	10.3 m/11.8	10.0
12.0		11.7 m/11.2	10.7	10.7	10.6	10.5	10.4	10.4	10.3	10.2	10.1	10.0	10.0	9.9	9.8	12.0
14.0			8.8	8.7	8.6	8.5	8.4	8.4	8.3	8.2	8.1	8.0	8.0	7.9	7.8	14.0
16.0			14.4 m/8.5	7.3	7.2	7.1	7.0	7.0	6.9	6.8	6.7	6.6	6.5	6.5	6.3	16.0
18.0				17.0 m/6.8	6.2	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.5	5.4	5.3	18.0
20.0					19.7 m/5.4	5.3	5.2	5.1	5.0	4.9	4.8	4.7	4.6	4.5	4.4	20.0
22.0						4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.9	3.7	22.0
24.0						22.3 m/4.5	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	24.0
26.0							24.9 m/3.8	3.4	3.3	3.2	3.1	3.0	2.9	2.8	2.7	26.0
28.0								27.6 m/3.1	3.0	2.9	2.8	2.7	2.6	2.5	2.4	28.0
30.0									2.6	2.5	2.4	2.3	2.2	2.1	2.0	30.0
32.0									30.2 m/2.5	2.3	2.2	2.1	2.0	1.9	1.8	32.0
34.0										32.9 m/2.1	1.9	1.8	1.7	1.6	1.5	34.0
36.0											35.5 m/1.7	1.5	1.4	1.3	1.1	36.0
38.0												1.3	1.2	1.1		38.0
Reeves	8	8	8	7	6	5	4	4	4	3	3	2	2	2	2	Reeves

Note:

Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.

Ratings shown in are determined by the strength of the boom or other structural components.

Auxiliary Sheave Lifting Capacity for Crane Boom (With 19t Main Hook)

Unit: metric ton

Counterweight: 15.2 t

Working radius (m)	Boom length (m)															Working radius (m)
	9.1	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8		
3.0	3.8 m/7.0															3.8
4.0	7.0	4.3 m/7.0	4.8 m/7.0													4.0
5.0	7.0	7.0	7.0	5.4 m/7.0	5.9 m/7.0											5.0
6.0	7.0	7.0	7.0	7.0	7.0	6.4 m/7.0	6.9 m/7.0									6.0
7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5 m/7.0							7.0
8.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.5 m/7.0						8.0
9.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.1 m/7.0	9.6 m/7.0				9.0
10.0	9.1 m/7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	10.1 m/7.0	10.6 m/7.0		10.0
12.0		11.7 m/7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		12.0
14.0			7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		14.0
16.0			14.4 m/7.0	6.6	6.5	6.4	6.3	6.3	6.2	6.1	6.0	5.9	5.8	5.8		16.0
18.0				17.0 m/6.1	5.5	5.4	5.3	5.2	5.1	5.0	4.9	4.8	4.8	4.7		18.0
20.0					19.7 m/4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.8		20.0
22.0						3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.2		22.0
24.0						22.3 m/3.8	3.3	3.2	3.1	3.0	2.9	2.8	2.7	2.6		24.0
26.0							24.9 m/3.1	2.7	2.6	2.5	2.4	2.3	2.2	2.1		26.0
28.0								27.6 m/2.4	2.3	2.2	2.1	2.0	1.9	1.8		28.0
30.0									1.9	1.8	1.7	1.6	1.5	1.4		30.0
32.0									30.2 m/1.8	1.6	1.5	1.4	1.3	1.2		32.0
34.0										32.9 m/1.4	1.2	1.1				34.0
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Note:

Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.

Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

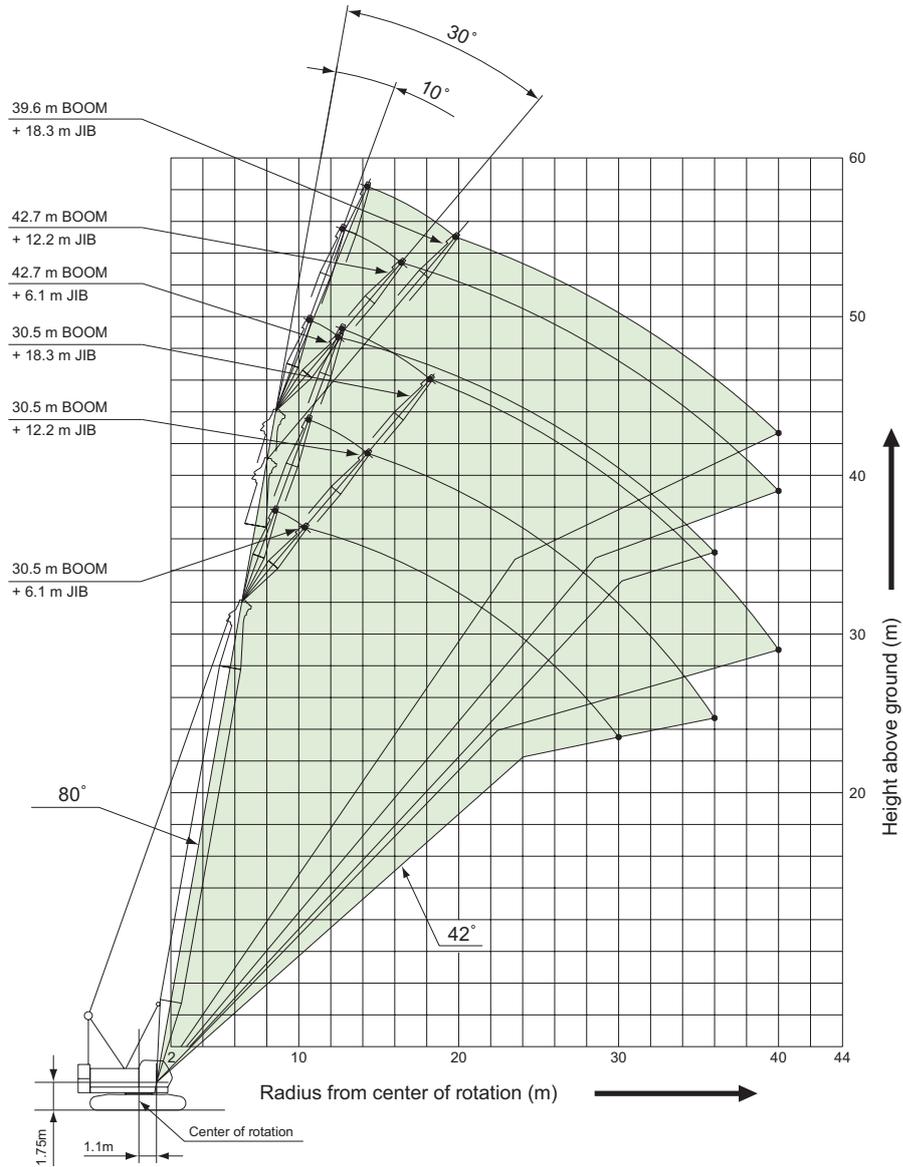
Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Fixed Jib Working Ranges

Jib Offset Angle: 10°, 30°



NOTES:

1. Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Fixed Jib Lifting Capacities (Without Main Hook)

Jib Offset Angle: 10°

Unit: metric ton

Counterweight: 15.2 t

Boom length (m)	30.5			33.5			36.6			39.6			42.7		Boom length (m)	
Jib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	Jib length (m)	
Working radius (m)	9.0	7.0		7.0											9.0	
	10.0	7.0		7.0			7.0			7.0					10.0	
	12.0	7.0	7.0	4.5	7.0	7.0	7.0	7.0		7.0			7.0		12.0	
	14.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5	7.0	14.0	
	16.0	6.9	7.0	4.5	6.8	7.0	4.5	6.7	7.0	4.5	6.6	6.9	4.5	6.6	16.0	
	18.0	6.0	6.2	4.5	5.9	6.1	4.5	5.8	6.1	4.5	5.7	6.0	4.5	5.6	18.0	
	20.0	5.1	5.3	4.5	5.0	5.2	4.5	4.9	5.2	4.5	4.8	5.1	4.5	4.7	20.0	
	22.0	4.4	4.6	4.5	4.3	4.5	4.5	4.2	4.4	4.5	4.1	4.3	4.4	4.0	4.3	22.0
	24.0	3.8	4.0	4.1	3.7	3.9	4.0	3.7	3.9	3.9	3.5	3.8	3.8	3.5	3.7	24.0
	26.0	3.4	3.6	3.6	3.2	3.4	3.5	3.2	3.4	3.4	3.1	3.3	3.3	3.0	3.2	26.0
	28.0	3.0	3.1	3.2	2.8	3.0	3.1	2.8	3.0	3.0	2.7	2.8	2.9	2.5	2.8	28.0
	30.0	2.6	2.8	2.9	2.5	2.7	2.8	2.4	2.6	2.7	2.3	2.5	2.6	2.1	2.4	30.0
	32.0	2.3	2.5	2.6	2.2	2.4	2.5	2.1	2.3	2.4	1.9	2.2	2.3	1.8	2.0	32.0
	34.0		2.2	2.3	1.9	2.1	2.2	1.8	2.0	2.1	1.6	1.8	1.9	1.5	1.7	34.0
	36.0		2.0	2.1	1.6	1.8	1.9	1.5	1.7	1.8	1.3	1.6	1.7	1.2	1.4	36.0
	38.0		1.7	1.8		1.6	1.7	1.2	1.5	1.6	1.1	1.3	1.4		1.2	38.0
40.0			1.6		1.4	1.5		1.2	1.4		1.1	1.2			40.0	
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	

Note:

Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.

Ratings shown in are determined by the strength of the boom or other structural components.

Jib Offset Angle: 30°

Unit: metric ton

Counterweight: 15.2 t

Boom length (m)	30.5			33.5			36.6			39.6			42.7		Boom length (m)	
Jib length (m)	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	Jib length (m)	
Working radius (m)	12.0	7.0		7.0			7.0			7.0			7.0		12.0	
	14.0	7.0		7.0			7.0			7.0			6.8		14.0	
	16.0	7.0	5.0		7.0	5.0		7.0	5.0		6.9	5.0		6.6	16.0	
	18.0	6.2	5.0	3.2	6.1	5.0	3.2	6.0	5.0		5.9	5.0		5.9	4.6	18.0
	20.0	5.3	5.0	3.2	5.2	5.0	3.2	5.1	5.0	3.2	5.0	5.0	3.2	4.9	4.4	20.0
	22.0	4.5	4.9	3.2	4.4	4.8	3.2	4.4	4.7	3.2	4.3	4.7	3.2	4.2	4.3	22.0
	24.0	3.9	4.2	3.2	3.8	4.2	3.2	3.8	4.1	3.2	3.7	4.0	3.2	3.6	4.0	24.0
	26.0	3.4	3.7	3.2	3.3	3.6	3.2	3.3	3.6	3.2	3.2	3.5	3.2	3.1	3.4	26.0
	28.0	3.0	3.3	3.2	2.9	3.2	3.2	2.9	3.1	3.2	2.7	3.1	3.2	2.7	3.0	28.0
	30.0	2.7	2.9	3.1	2.6	2.8	3.0	2.5	2.8	3.0	2.4	2.7	2.9	2.3	2.6	30.0
	32.0		2.6	2.8	2.2	2.5	2.7	2.2	2.4	2.6	2.0	2.3	2.5	1.9	2.3	32.0
	34.0		2.3	2.5		2.2	2.4	1.8	2.1	2.3	1.7	2.0	2.2	1.6	1.9	34.0
	36.0		2.0	2.2		1.9	2.1		1.9	2.1	1.4	1.7	2.0	1.3	1.6	36.0
	38.0			2.0		1.7	1.9		1.6	1.8	1.1	1.5	1.7		1.3	38.0
	40.0			1.8			1.7		1.3	1.6		1.2	1.4		1.1	40.0
	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Note:

Ratings according to Japanese Construction Codes for Mobile Cranes and Japanese Safety Ordinance on Cranes, etc.

Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

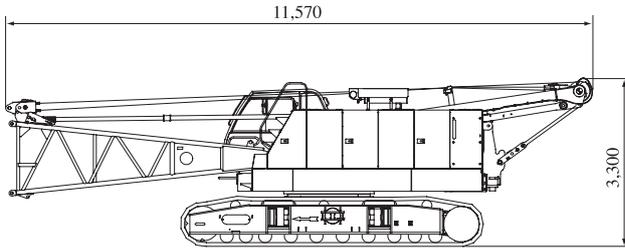
Motor Grader

Parts And Attachments

Base Machine

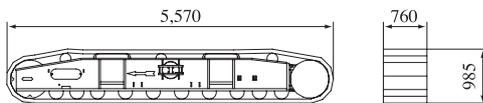
With boom base, crawlers, gantry, lower spreader, upper spreader, and wire rope for main & boom hoist winches

Weight: 40,200 kg Width: 3,200 mm

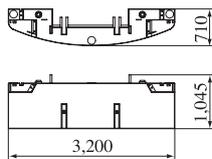


Crawler

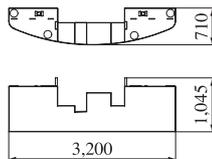
Weight: 6,500 kg



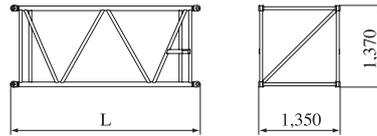
Counterweight A
Weight: 7,510 kg



Counterweight B
Weight: 7,730 kg



Insert Boom

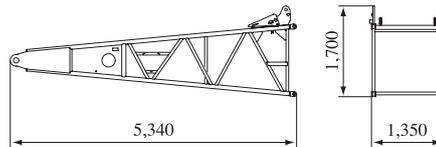


	L (mm)	Weight (kg)*
3.0m	3,145	320
6.1m	6,190	520
9.1m	9,240	730

*with boom guy cables

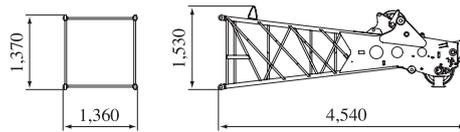
Boom Base

Weight: 980 kg



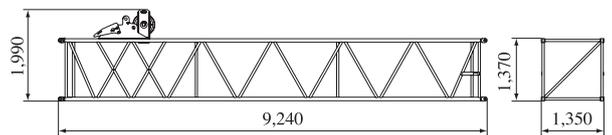
Boom Top

Weight: 1,070 kg (with boom guy cables)



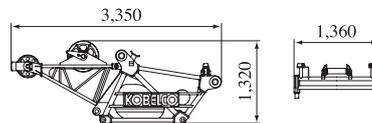
9.1 m Special Insert Boom for Tower

Weight: 1,190 kg (with boom guy cables)



Tower Cap

Weight: 600 kg



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

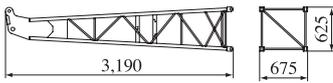
Bull Dozer

Vibro Roller
Baby Roller

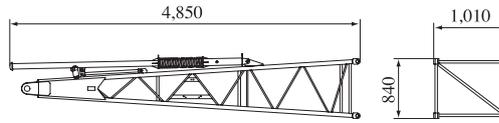
Motor Grader

Dimensions: mm Weight: kg

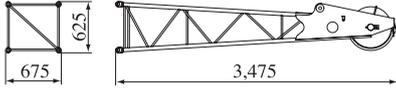
Jib Base (For Crane)
Weight: 125 kg



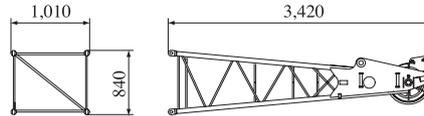
Tower Jib Base
Weight: 400 kg



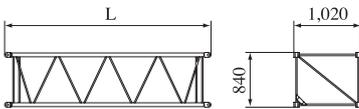
Jib Top (For Crane)
Weight: 145 kg



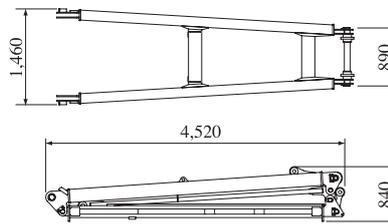
Tower Jib Top
Weight: 245 kg



Insert Tower Jib



Tower Jib strut
Weight: 760 kg



	L (mm)	Weight (kg)
3.0 m	3,120	115
6.1 m	6,170	195

Other Attachments

Attachments	Weight	Dimensions (L x W x H)
6.1 m insert boom with lug	540 kg (with guy cables)	6,190 mm x 1,350 mm x 1,500 mm
9.1 m insert boom with lug	750 kg (with guy cables)	9,240 mm x 1,350 mm x 1,500 mm
6.1 m insert jib (for crane)	140 kg	6,160 mm x 675 mm x 625 mm
Jib strut (for crane)	190 kg	3,700 mm x 670 mm x 500 mm
Auxiliary sheave	140 kg	1,325 mm x 540 mm x 1,285 mm
Upper spreader for boom hoist	280 kg	1,460 mm x 300 mm x 630 mm
Upper spreader for tower jib	225 kg	640 mm x 610 mm x 775 mm
Lower spreader for tower jib	335 kg	1,350 mm x 450 mm x 930 mm
55-ton hook	650 kg	590 mm x 435 mm x 1,470 mm
32-ton hook	500 kg	590 mm x 330 mm x 1,530 mm
19-ton hook	400 kg	590 mm x 385 mm x 1,270 mm
7-ton ball hook	160 kg	ø 300 mm x 815 mm

Note: Estimated weights may vary±2%.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Standard Equipment

Upper structure/Lower structure

Counterweight: 15.2 ton (total weight)
 760 mm shoe crawlers
 Batteries (2-12V, 136 Ah/5 HR)
 Gantry raising/lowering cylinder
 Electric hand throttle grip
 Variable boom hoist speed controller
 Variable main/aux. hoist speed controller
 Swing neutral-free/brake select switch
 Side deck for cab
 Steps (crawlers)
 Two front working lights
 Two rear view mirrors
 Tools (for routine maintenance)
 Cable roller (for boom)
 Upper spreader storage guide

Cab Control

Air conditioner
 Luggage box
 Cup holder
 Ashtray
 Cigar lighter
 Intermittent wiper & window washer (skylight and front window)
 Sun visor
 Roof blind
 Floor mat (cloth)
 Foot rest
 Shoe tray

Safety Device

Load Moment Indicator (with boom lowering slow stop function)
 LMI release key (for hook over-hoist prevention device and boom over-hoist prevention device)
 LCD multi display
 Ultimate stop function for boom over-hoist
 Function lock lever
 Propel lever lock
 Mechanical drum lock pawl (main, aux. and boom hoist)
 Signal horn
 Swing parking brake
 Mechanical swing lock pin (two positions)
 Swing flashers/warning buzzer

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Crawler Crane 80t CKS800

Manual PDF

**Crawler Crane
80t CKS800
(KOBELCO)**



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

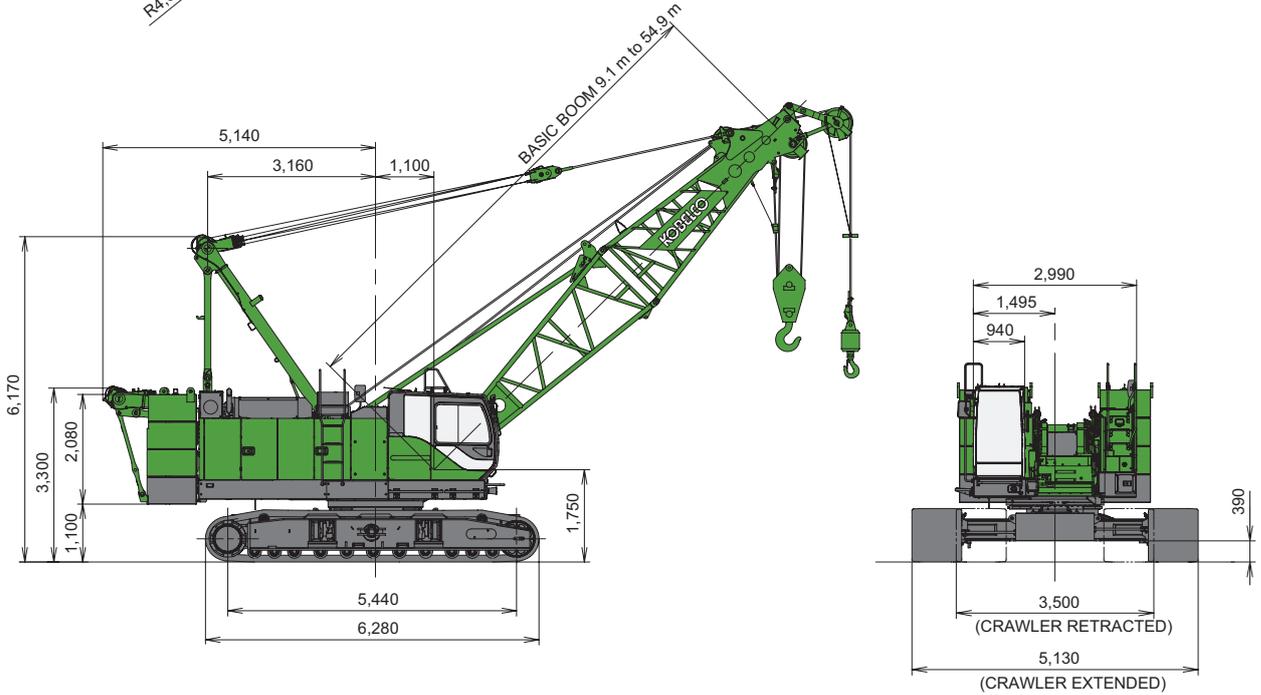
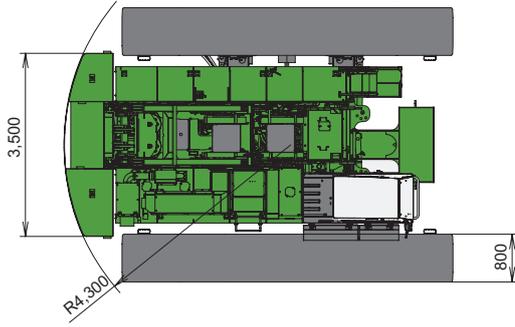
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

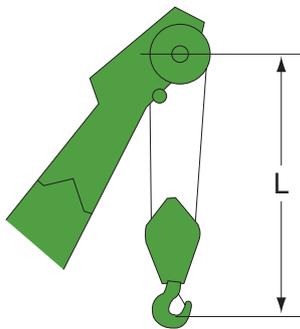
General Dimensions

(Unit: mm)

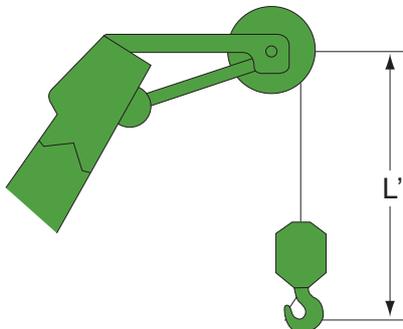


This catalog may contain photographs of machines with specifications, attachments and optional equipment.

Limit of Hook Lifting



Hook	L
80 t hook	4.5 m
50 t hook	4.3 m
32 t hook	4.2 m
19 t hook	4.1 m



Hook	L'
Ball hook	3.1 m

Crawler Crane

- 55t
7055
- 80t
CKS800
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CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Boom And Jib Arrangements

80t
CKS800

Boom length m (ft)	Boom arrangement
9.1 (30)	※
12.2 (40)	※
15.2 (50)	 ※
18.3 (60)	※
21.3 (70)	 ※
24.4 (80)	※
27.4 (90)	※
30.5 (100)	 ※
33.5 (110)	 ※
36.6 (120)	※

Boom length m (ft)	Boom arrangement
39.6 (130)	 ※
42.7 (140)	 ※
45.7 (150)	※
48.8 (160)	 ※
51.8 (170)	※
54.9 (180)	※

Symbol	Boom Length	Remarks
	5.2 m	Boom Base
	3.9 m	Boom Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	6.1 m	Insert Boom with lug
	9.1 m	Insert Boom
	9.1 m	Insert Boom with lug

↗ mark shows the guy line installing position when the fixed jib is used.

※ indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

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55t
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All Terrain Crane

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ATF160G-5

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220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

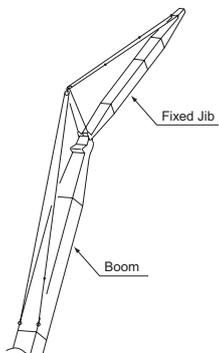
Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

Fixed Jib Arrangements



Crane boom length	Jib length m (ft)	Jib arrangement
30.5 m ~ 45.7 m	6.1 (20)	
	12.2 (40)	
30.5 m ~ 42.7 m	18.3 (60)	

Symbol	Jib Length	Remarks
	3.0 m	Jib Base
	3.0 m	Jib Top
	6.1 m	Insert Jib

Specifications



Power Plant

Model: HINO J08E-VM
 Type: 4 cycle, water-cooled, vertical in-line 6, direct injection, turbo-charger, intercooler
 Exhaust level is equivalent with NRMM (Europe) Stage IIIA / US EPA Tier 3.
 Displacement: 7,684 liters
 Rated power: 213 kW/2,100 min⁻¹
 Max. Torque: 1,017 N·m/1,600 min⁻¹
 Cooling System: Water-cooled
 Starter: 24V-5kW
 Radiator: Corrugated type core, thermostatically controlled
 Air cleaner: Dry type with replaceable paper element
 Throttle: Twist grip type hand throttle, electrically actuated
 Fuel filter: Replaceable paper element
 Batteries: Two 12V x 136 Ah/5HR capacity batteries, series connected
 Fuel tank capacity: 400 liters



Hydraulic System

Main pumps: 3 variable displacement piston pumps
 Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. Controls respond instantly to the touch, delivering smooth function operation.
 Cooling: Oil-to-air heat exchanger (plate-fin type)
 Filtration: Full-flow and bypass type with replaceable element
 Max. relief valve pressure:
 Load hoist, boom hoist and propel system: 31.9 MPa
 Swing system: 27.5 MPa
 Control system: 5.4 MPa
 Hydraulic Tank Capacity: 440 liters



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.
 Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.
 Drum Lock: External ratchet for locking drum
 Drum: Single drum, grooved for 16mm dia. wire rope
 Line Speed: Single line on first drum layer
 Hoisting/Lowering: 70 to 2 m/min
 Boom hoisting/lowering: 16 mm x 150 m
 Boom guy line: 30 mm
 Boom backstops: Required for all boom length



Load Hoisting System

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.
 Negative Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional)

Drum Lock: External ratchet for locking drum

Drums:

Front Drums:

550 mm P.C.D x 545 mm wide drum, grooved for 22 mm wire rope. Rope capacity is 220 m working length and 335 m storage length.

Rear Drum: 550 mm P.C.D x 545 mm grooved for 22 mm wire rope. Rope capacity is 130 m working length and 335m storage length.

Diameter of wire rope

Main winch: 22 mm x 220 m

Aux. winch: 22 mm x 130 m

Third winch: 22 mm x 145 m

Line Speed * :

Hoisting/lowering: 120 to 3 m/min

Line Pull:

Max. Line Pull* : 153 kN {15.5 tf}

(Referential performance)

Rated Line Pull: 78 kN {8.0 tf}

*Single line on first drum layer



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducer, the swing system provides 360° rotation.

Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle: Single-row ball bearing with an integral internally cut swing gear.

Swing lock: Manually, four position lock for transportation

Swing Speed: 4.0 min⁻¹



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine will with low noise level.

Counterweight: 27.2 ton



Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a headrest and armrests, and intermittent wiper and window washer (skylight and front window).

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, footrest, and shoe tray

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader



Lower Structure

Steel-welded carbody with axles. Crawler assemblies can be hydraulically extended for wide-track operation or retracted for transportation. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Carbodyweight: 6.5 ton

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoe (flat): 800 mm wide each crawler

Max. gradeability: 40%



Weight

Including upper and lower machine, 27.2 ton counterweight and 6.5 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Weight: 75.1 ton

Ground pressure: 84.7 kPa



Attachment

Boom & Jib:

Welded lattice construction using tubular, high-tensile steel chords with pin connection between sections.

Boom and Jib length

	Min. Length (Min. combination)	Max. Length (Max. combination)
Crane Boom	9.1 m	54.9 m
Fixed Jib	30.5 m + 6.1 m	42.7 m + 18.3 m, 45.7 m + 12.2 m

Main Specifications (Model: CKS800)

Crane Boom	
Max. Lifting Capacity	80 t x 3.0 m
Max. Length	54.9 m
Fixed Jib	
Max. Lifting Capacity	7.0 t x 20.0 m
Max. Combination	42.7 m + 18.3, 45.7 m +12.2 m
Main & Aux. Winch	
Max. Line Speed (1st layer)	120 m/min
Rated Line Pull (Single line)	78 kN {8 tf}
Wire Rope Diameter	22 mm
Wire Rope Length	220 m (Main), 130 m (Aux.)
Brake Type (free fall)	Wet-type multiple disc brake (Optional)
Working Speed	
Swing Speed	4.0 min ⁻¹ {rpm}
Travel Speed	1.7/1.1 km/h
Power Plant	
Model	HINO J08E-VM
Engine Output	213 kW/2,100 min ⁻¹
Fuel Tank	400 liters

Hydraulic System	
Main Pumps	3 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm ² }
Hydraulic Tank Capacity	440 liters
Self-Removal Device	
	Counterweight/self-removal device (Option)
Weight	
Operating Weight	75.1 t * ¹
Ground Pressure	84.7 kPa
Counterweight	27,200 kg
Transport Weight	39,850 kg * ²

Units are SI units. { } indicates conventional units.

Line speeds in table are for light loads. Line speed varies with load.

*¹ Including upper and lower machine, 27.2 ton counterweight, 6.5 ton carbody weight, basic boom, hook, and other accessories.

*² Base machine with boom base, gantry, crawlers, and wire ropes (front/boom hoist)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

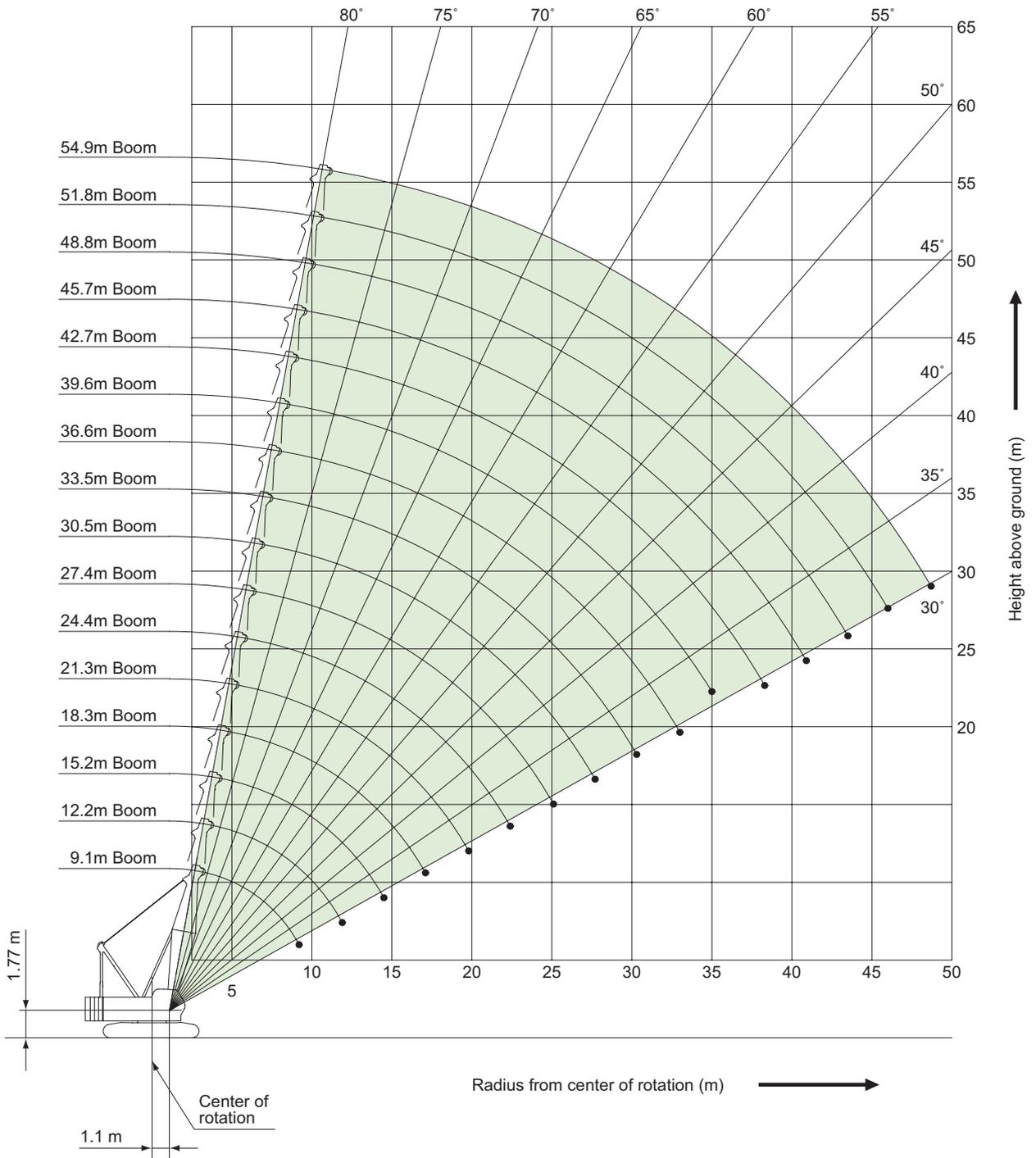
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges

Crane Boom



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

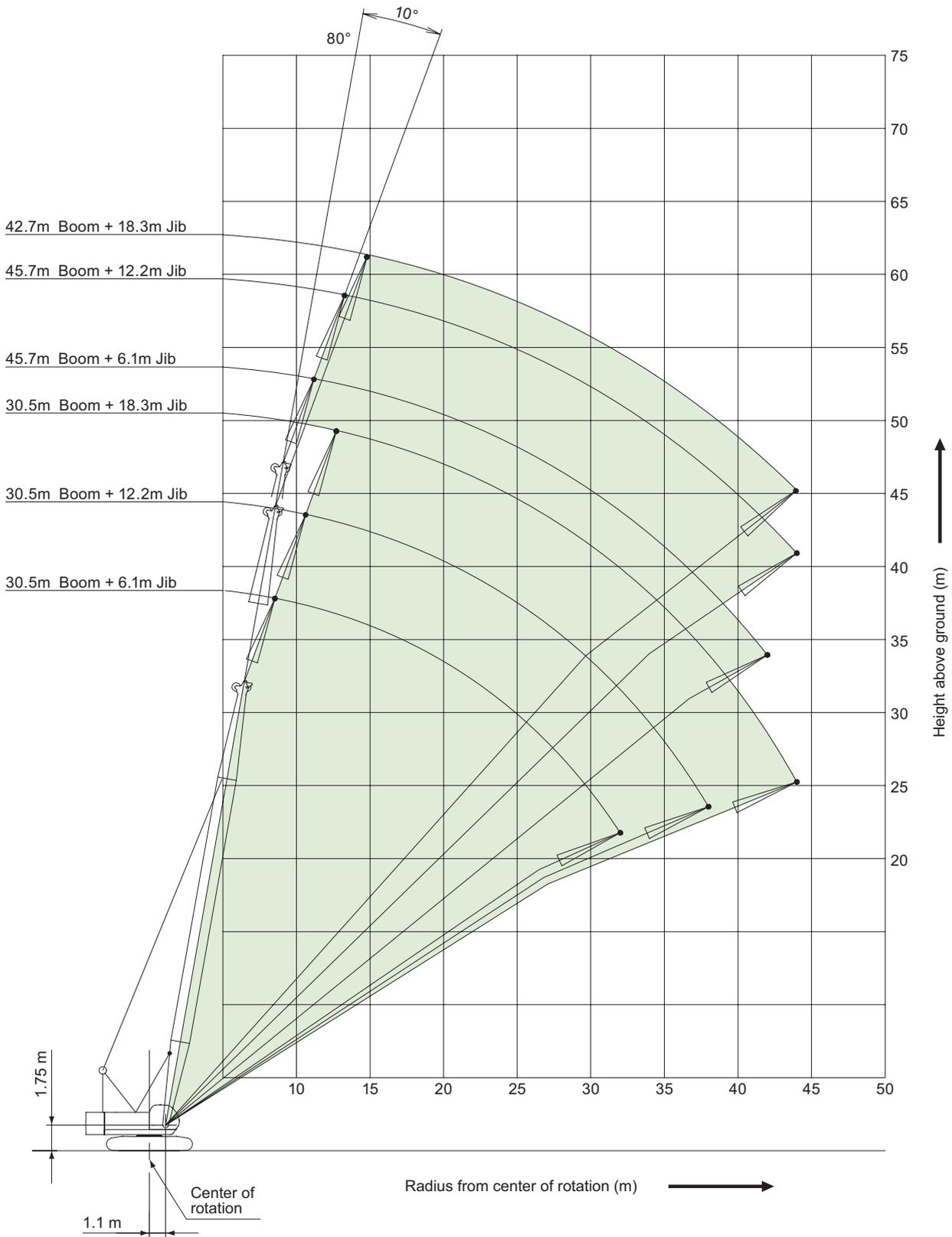
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Fixed Jib 10°



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

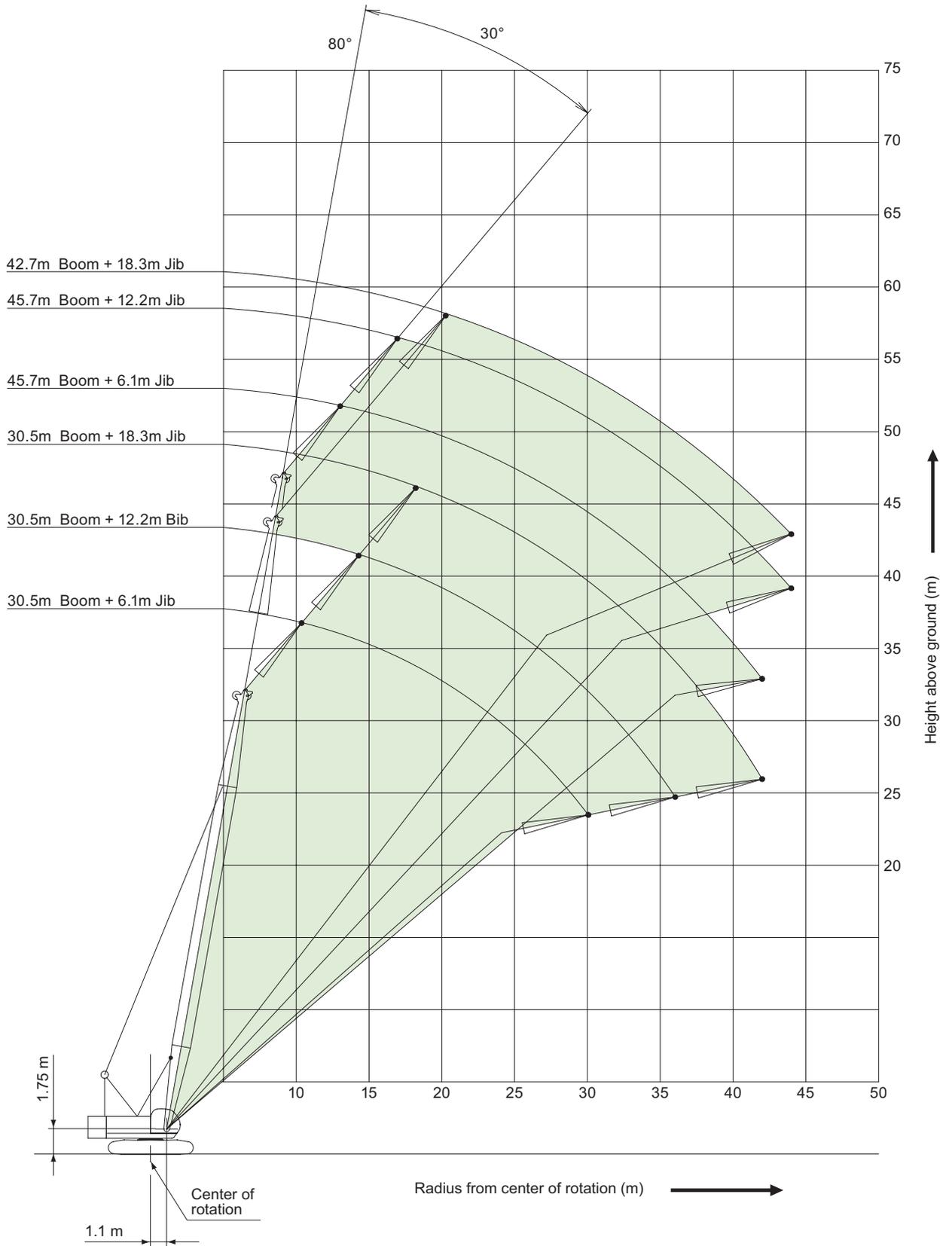
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges

Fixed Jib 30°



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

- Ratings according to EN13000.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of hook block (s), slings and all other load handling accessories from main boom ratings shown.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment.
The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for operation on a firm and level surface, up to 1 % gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 part line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes are limited by strength of materials.
- The minimum rated load is 1.1 (ton).
- Crawler frames must be fully extended for all crane operations.
- When erecting or lowering the boom length of 54.9 m (180 ft) or over, the blocks for erection must be placed under the front of the crawlers.

(Crane boom lifting)

- The total load that can be lifted is the value for weight of main hook block, slings, and all other load handling accessories deducted from crane boom ratings shown.

(Fixed jib lifting)

- The total load that can be lifted is the value for weight of jib hook block, slings, and all other load handling accessories deducted from fixed jib ratings shown.
- The availability of fixed jib mounting
 - On crane boom : Range 30.5 m to 45.7 m.
 But 18.3 m jib is not allowed to install on 45.7 m main boom.

<Reference Information>

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	78	157	235	314	392
Maximum Loads (t)	8.0	16.0	24.0	32.0	40.0

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	471	549	628	706	785
Maximum Loads (t)	48.0	56.0	64.0	72.0	80.0

Auxiliary hoist loads

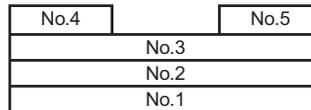
No. of Parts of Line	1
Maximum Loads (kN)	69
Maximum Loads (t)	7.0

Weight of hook block					
Hook Block	80 t	50 t	32 t	19 t	Ball Hook
Weight (t)	0.8	0.7	0.5	0.4	0.16

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Assembling the counterweight

27.2 ton counterweight
6.5 ton carbody weight
(standard type)



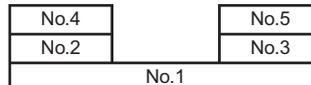
Counterweights



Carbody weights

Assembling the counterweight

(Equipped with self removal device)
26.1 ton counterweight
6.5 ton carbody weight
(optional type)



Counterweights



Carbody weights

- The lifting capacity does not change due to the type of counterweights (standard or optional).

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55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
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250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

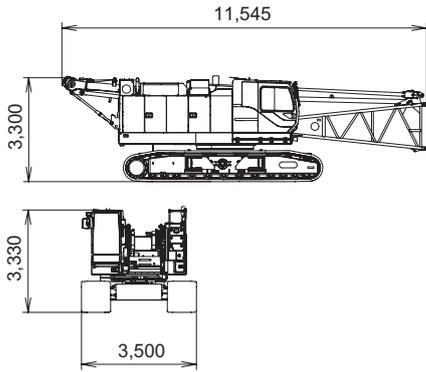
Bull Dozer

Vibro Roller
Baby Roller

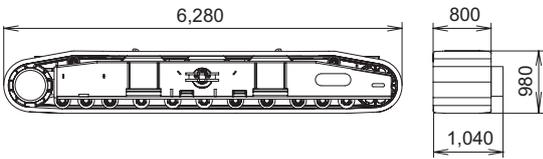
Motor Grader

Parts And Attachments

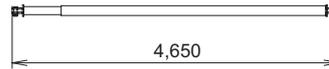
Base Machine
 Boom base, Gantry, Crawler, Wire rope (Front/rear/boom hoist)
 Weight: 39,850 kg Width: 3,500 mm



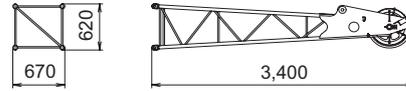
Crawler
 Weight: 7,180 kg



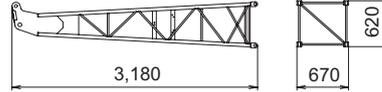
Backstop
 Weight: 245 kg



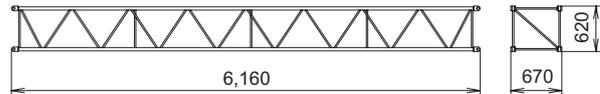
Jib Tip
 Weight: 145 kg



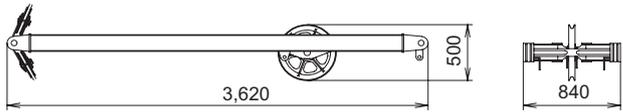
Jib Base
 Weight: 125 kg



6.1 m Jib Insert
 Weight: 140 kg



Jib Strut
 Weight: 190 kg



Crawler Crane

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7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
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CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

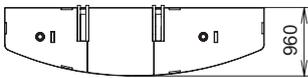
Bull Dozer

Vibro Roller

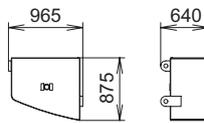
Baby Roller

Motor Grader

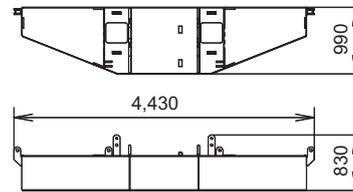
Counterweight No.1
 Weight: 8,530 kg



Counterweight No.4 (L)
 Weight: 1,660 kg



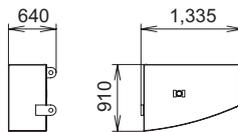
Counterweight (1) (Option)
 Weight: 9,320 kg



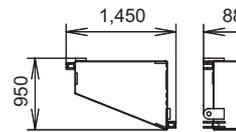
Counterweight No.2
 Weight: 7,860 kg



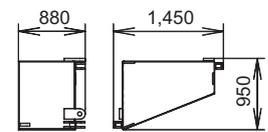
Counterweight No.4 (R)
 Weight: 2,740 kg



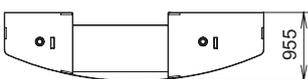
Counterweight (L) (2) (4) (Option)
 Weight: 4,200 kg



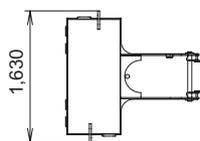
Counterweight (R) (3) (5) (Option)
 Weight: 4,200 kg



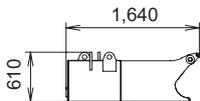
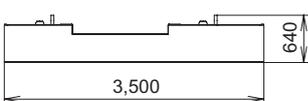
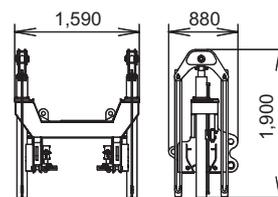
Counterweight No.3
 Weight: 6,410 kg



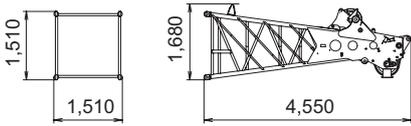
Carbody Weight
 Weight: 3,270 kg / 1 piece



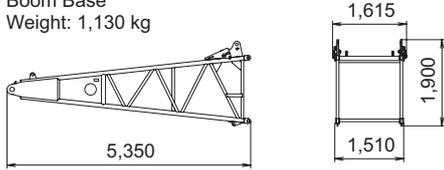
Self Removal Unit (Option)
 Weight: 860 kg



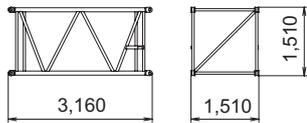
Boom Tip
Weight: 1,110 kg



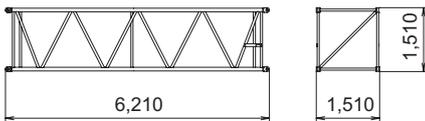
Boom Base
Weight: 1,130 kg



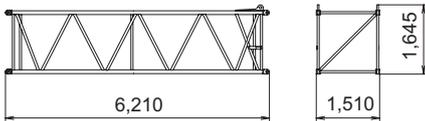
3.0 m
Boom Insert
Weight: 311 kg



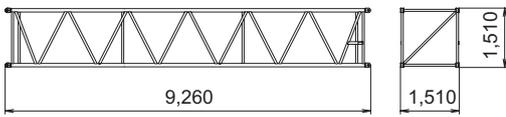
6.1 m
Boom Insert
Weight: 522 kg



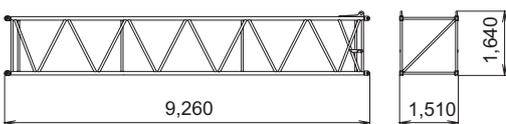
6.1 m
Boom Insert With Lug
Weight: 545 kg



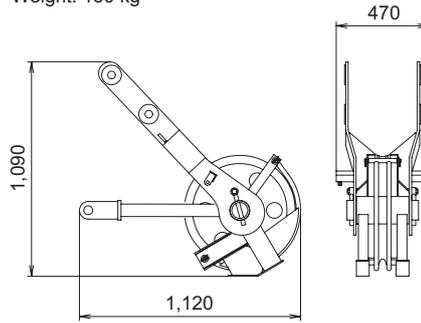
9.1 m
Boom Insert
Weight: 742 kg



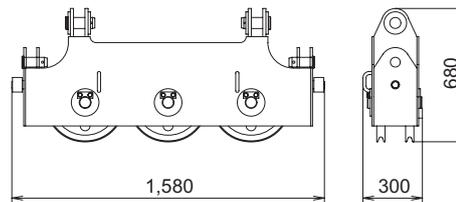
9.1 m
Boom Insert With Lug
Weight: 765 kg



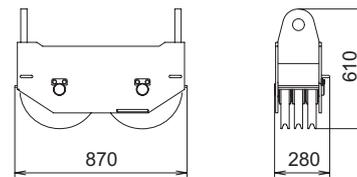
Auxiliary Sheave
Weight: 150 kg



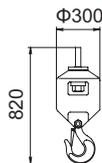
Upper Spreader
Weight: 280 kg



Lower Spreader
Weight: 215 kg



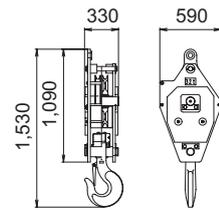
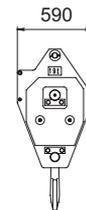
Ball Hook
Weight: 160 kg



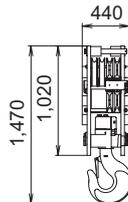
19 t Hook
Weight: 400 kg



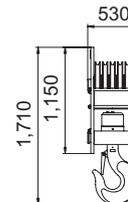
32 t Hook
Weight: 500 kg



50 t Hook
Weight: 650 kg



80 t Hook
Weight: 800 kg



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Crane Boom Lifting Capacities

Counterweight: 27.2 t
Carbody Weight: 6.5 t

Unit: metric ton

Working radius (m)	Boom length (m)																Working radius (m)
	9.1	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	54.9	
3.0	80.0	3.6m/76.2															3.0
4.0	69.0	72.6	4.2m/69.6	4.7m/59.3													4.0
5.0	57.9	57.7	57.5	55.1	5.2m/50.0	5.7m/42.9											5.0
6.0	47.5	47.3	46.7	44.6	42.6	40.8	6.3m/37.2	6.8m/33.0									6.0
7.0	39.8	39.6	38.9	37.3	35.8	34.5	33.3	32.0	7.3m/29.5	7.9m/26.4							7.0
8.0	32.9	32.7	32.5	32.0	30.9	29.8	28.8	27.8	26.9	26.0	8.4m/24.0						8.0
9.0	26.0	27.8	27.6	27.5	27.0	26.2	25.4	24.5	23.8	23.1	22.4	21.7	9.4m/20.1				9.0
10.0	9.2m/24.5	24.1	23.9	23.8	23.7	23.3	22.6	21.9	21.3	20.6	20.0	19.4	19.0	18.4	10.5m/17.1	11.0m/15.7	10.0
12.0		11.9m/19.3	18.8	18.7	18.6	18.5	18.4	17.9	17.4	16.9	16.5	16.0	15.6	15.1	14.8	14.4	12.0
14.0			15.4	15.3	15.1	15.0	14.9	14.8	14.7	14.2	13.9	13.5	13.2	12.8	12.5	12.1	14.0
16.0			14.5m/14.7	12.9	12.7	12.6	12.5	12.3	12.2	12.1	11.9	11.5	11.3	10.9	10.7	10.4	16.0
18.0				17.1m/11.8	10.9	10.8	10.7	10.5	10.4	10.3	10.2	10.0	9.8	9.4	9.3	9.0	18.0
20.0					19.8m/9.6	9.3	9.2	9.1	9.0	8.8	8.7	8.6	8.5	8.3	8.1	7.8	20.0
22.0						8.2	8.1	7.9	7.8	7.7	7.6	7.5	7.4	7.2	7.1	6.9	22.0
24.0						22.4m/8.0	7.2	7.0	6.9	6.8	6.6	6.5	6.4	6.3	6.2	6.1	24.0
26.0							25.1m/6.8	6.2	6.1	6.0	5.9	5.7	5.6	5.5	5.4	5.3	26.0
28.0								27.7m/5.7	5.5	5.4	5.2	5.1	5.0	4.9	4.8	4.7	28.0
30.0									4.9	4.8	4.7	4.5	4.4	4.3	4.2	4.1	30.0
32.0									30.3m/4.9	4.3	4.2	4.0	3.9	3.8	3.7	3.6	32.0
34.0										33.0m/4.1	3.8	3.6	3.5	3.4	3.3	3.2	34.0
36.0											35.0m/3.5	3.3	3.2	3.0	2.9	2.8	36.0
38.0												2.9	2.8	2.7	2.6	2.5	38.0
40.0												38.3m/2.9	2.6	2.4	2.3	2.2	40.0
42.0													40.9m/2.4	2.1	2.0	1.9	42.0
44.0														43.5m/2.0	1.8	1.7	44.0
46.0															1.6	1.5	46.0
48.0																1.3	48.0
50.0																48.7m/1.2	50.0
Reeves	10	10	9	8	7	6	5	5	4	4	3	3	3	3	3	2	Reeves

Note:

Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Fixed Jib Lifting Capacities (Jib Offset Angle : 10°)

Counterweight: 27.2 t
Carbody Weight: 6.5 t

Unit: metric ton

Boom length (m)		30.5			33.5			36.6			Boom length (m)	
Jib length (m)		6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)	
Working radius (m)	9.0	7.0			7.0							9.0
	10.0	7.0			7.0			7.0				10.0
	12.0	7.0	7.0	4.5	7.0	7.0		7.0	7.0			12.0
	14.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5		14.0
	16.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5		16.0
	18.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0	4.5		18.0
	20.0	6.8	7.0	4.5	6.8	6.9	4.5	6.7	6.9	4.5		20.0
	22.0	6.1	6.4	4.5	6.0	6.2	4.5	5.9	6.2	4.5		22.0
	24.0	5.4	5.6	4.5	5.2	5.5	4.5	5.1	5.4	4.5		24.0
	26.0	4.7	5.0	4.5	4.6	4.8	4.5	4.5	4.8	4.5		26.0
	28.0	4.2	4.4	4.5	4.1	4.3	4.4	4.0	4.2	4.3		28.0
	30.0	3.8	4.0	4.1	3.6	3.8	3.9	3.5	3.7	3.9		30.0
	32.0	3.4	3.6	3.7	3.2	3.4	3.5	3.1	3.3	3.5		32.0
	34.0		3.2	3.3	2.9	3.1	3.2	2.8	3.0	3.1		34.0
	36.0		2.9	3.0	2.6	2.8	2.9	2.5	2.7	2.8		36.0
	38.0		2.6	2.8		2.5	2.6	2.2	2.4	2.5		38.0
	40.0			2.5		2.3	2.4		2.1	2.3		40.0
42.0			2.3		2.0	2.1		1.9	2.0		42.0	
44.0			2.1			1.9		1.6	1.8		44.0	
Reeves	1	1	1	1	1	1	1	1	1	1	Reeves	

Boom length (m)		39.6			42.7			45.7			Boom length (m)	
Jib length (m)		6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)	
Working radius (m)	10.0	7.0										10.0
	12.0	7.0			7.0			7.0				12.0
	14.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0			14.0
	16.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0			16.0
	18.0	7.0	7.0	4.5	7.0	7.0	4.5	7.0	7.0			18.0
	20.0	6.6	6.7	4.5	6.6	6.7	4.5	6.5	6.6			20.0
	22.0	5.8	6.0	4.5	5.7	6.0	4.5	5.6	5.8			22.0
	24.0	5.0	5.3	4.5	4.9	5.2	4.5	4.8	5.1			24.0
	26.0	4.4	4.6	4.5	4.3	4.5	4.5	4.2	4.4			26.0
	28.0	3.9	4.1	4.2	3.8	4.0	4.1	3.6	3.9			28.0
	30.0	3.4	3.6	3.7	3.3	3.5	3.6	3.2	3.4			30.0
	32.0	3.0	3.2	3.3	2.9	3.1	3.2	2.7	3.0			32.0
	34.0	2.6	2.9	3.0	2.5	2.8	2.9	2.3	2.6			34.0
	36.0	2.3	2.5	2.7	2.2	2.4	2.6	2.0	2.2			36.0
	38.0	2.0	2.2	2.4	1.8	2.1	2.2	1.6	1.9			38.0
	40.0	1.7	1.9	2.1	1.6	1.8	2.0	1.4	1.6			40.0
	42.0		1.7	1.8	1.3	1.6	1.7	1.1	1.4			42.0
44.0		1.4	1.6	1.1	1.3	1.5		1.1			44.0	
Reeves	1	1	1	1	1	1	1	1	1	1	Reeves	

Note:
Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

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180t
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250t
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25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Fixed Jib Lifting Capacities (Jib Offset Angle : 30°)

Counterweight: 27.2 t
Carbody Weight: 6.5 t
Unit: metric ton

Boom length (m)		30.5			33.5			36.6			Boom length (m)
Jib length (m)		6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2	18.3	Jib length (m)
Working radius (m)	12.0	7.0			7.0			7.0			12.0
	14.0	7.0			7.0			7.0			14.0
	16.0	7.0	5.0		7.0	5.0		7.0	5.0		16.0
	18.0	7.0	5.0	3.2	7.0	5.0	3.2	7.0	5.0		18.0
	20.0	6.9	5.0	3.2	6.8	5.0	3.2	6.8	5.0	3.2	20.0
	22.0	6.2	5.0	3.2	6.1	5.0	3.2	6.1	5.0	3.2	22.0
	24.0	5.5	5.0	3.2	5.4	5.0	3.2	5.3	5.0	3.2	24.0
	26.0	4.8	4.9	3.2	4.7	5.0	3.2	4.6	5.0	3.2	26.0
	28.0	4.3	4.6	3.2	4.2	4.5	3.2	4.1	4.4	3.2	28.0
	30.0	3.8	4.1	3.1	3.7	4.0	3.2	3.6	3.9	3.2	30.0
	32.0		3.7	3.0	3.3	3.6	3.0	3.2	3.5	3.1	32.0
	34.0		3.3	2.8		3.2	2.9	2.9	3.1	3.0	34.0
	36.0		3.0	2.7		2.9	2.8		2.8	2.9	36.0
	38.0			2.6		2.6	2.7		2.5	2.7	38.0
	40.0			2.5			2.5		2.2	2.5	40.0
	42.0			2.4			2.3			2.2	42.0
	44.0						2.1			2.0	44.0
Reeves	1	1	1	1	1	1	1	1	1	Reeves	

Boom length (m)		39.6			42.7			45.7			Boom length (m)
Jib length (m)		6.1	12.2	18.3	6.1	12.2	18.3	6.1	12.2		Jib length (m)
Working radius (m)	12.0	7.0									12.0
	14.0	7.0			7.0			7.0			14.0
	16.0	7.0	5.0		7.0			7.0			16.0
	18.0	7.0	5.0		7.0	5.0		7.0	5.0		18.0
	20.0	6.6	5.0	3.2	6.6	5.0	3.2	6.6	5.0		20.0
	22.0	5.9	5.0	3.2	5.9	5.0	3.2	5.8	5.0		22.0
	24.0	5.2	5.0	3.2	5.1	5.0	3.2	5.0	5.0		24.0
	26.0	4.5	4.9	3.2	4.4	4.8	3.2	4.3	4.7		26.0
	28.0	4.0	4.3	3.2	3.9	4.3	3.2	3.8	4.2		28.0
	30.0	3.5	3.8	3.2	3.4	3.8	3.2	3.3	3.7		30.0
	32.0	3.1	3.4	3.2	3.0	3.3	3.2	2.9	3.2		32.0
	34.0	2.7	3.0	3.1	2.6	3.0	3.2	2.4	2.9		34.0
	36.0	2.3	2.7	2.9	2.2	2.6	2.8	2.1	2.5		36.0
	38.0	2.0	2.4	2.6	1.9	2.3	2.5	1.7	2.1		38.0
	40.0		2.1	2.3	1.6	2.0	2.3	1.4	1.8		40.0
	42.0		1.8	2.1		1.7	2.0	1.2	1.5		42.0
	44.0		1.5	1.8		1.4	1.7		1.3		44.0
Reeves	1	1	1	1	1	1	1	1	1	Reeves	

Note:
Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

Supplemental Data For Clamshell Rating Chart

- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of bucket, slings and all other load handling accessories from main boom ratings shown.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Rated loads do not exceed 66% of minimum tipping loads.
- Ratings are for operation on a firm and level surface, up to 1% gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 part line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Crawler frames must be fully extended for all crane operations.

(Clamshell bucket lifting)

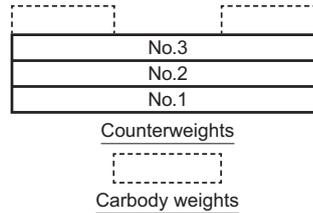
- The total load that can be lifted is the value for weight of bucket, slings, and all other load handling accessories deducted from main boom ratings shown.
- The weight of bucket and materials must not exceed rated load.
- Optimum bucket should be required according to material. $\text{Bucket capacity (m}^3\text{)} \times \text{specified gravity of material (ton/m}^3\text{)} + \text{bucket weight (ton)} = \text{rated load.}$
- Bucket weight must also be decreased according to operating cycle and bucket lowering height.
- Rated loads are determined by stability and boom strength. During simultaneous operations of boom and swing, rapid acceleration or deceleration must be avoided.
- Do not attempt to cast the bucket while swinging or diagonal draw-cutting.

<Reference Information>

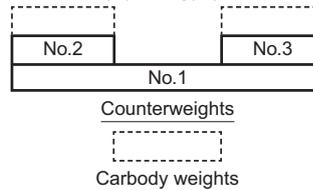
Main hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	69
Maximum Loads (t)	7.0

Assembling the counterweight
22.8 ton counterweight
without carbody weight
(Standard type)



Assembling the counterweight
(Equipped with self removal device)
17.7 ton counterweight
without carbody weight
(Optimal type)



- The lifting capacity does not change due to the type of counterweights. (Standard or optimal)

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Clamshell Rating Charts Crane Boom Capacities

Counterweight: 22.8 t
Without Carbody Weight
Crawler Fully Extended

Unit: metric ton

Load radius (m)	Boom length (m)	Boom length (m)						Boom length (m)	Load radius (m)
		9.1	12.2	15.2	18.3	21.3			
5.0	7.0							5.0	
5.5	7.0							5.5	
6.0	7.0	7.0						6.0	
7.0	7.0	7.0	7.0					7.0	
8.0	7.0	7.0	7.0	7.0				8.0	
9.0	7.0	7.0	7.0	7.0	7.0			9.0	
10.0		7.0	7.0	7.0	7.0			10.0	
12.0			7.0	7.0	7.0			12.0	
14.0			7.0	7.0	7.0			14.0	
16.0				7.0	7.0			16.0	
18.0					7.0			18.0	
20.0								20.0	
22.0								22.0	
24.0								24.0	
26.0								26.0	
28.0								28.0	
30.0								30.0	
32.0								32.0	
34.0								34.0	
36.0								36.0	
38.0								38.0	
40.0								40.0	
42.0								42.0	
44.0								44.0	
Reeves		1	1	1	1	1		Reeves	

Note:
Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Supplemental Data For Reduced Weights Rating Chart

- Ratings according to EN13000.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of hook block (s), slings and all other load handling accessories from main boom ratings shown.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for operation on a firm and level surface, up to 1% gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 part line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes are limited by strength of materials.
- The minimum rated load is 1.1 (ton).
- Crawler frames must be fully extended for all crane operations.

(Crane boom lifting)

- The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	78	157	235	314	392
Maximum Loads (t)	8.0	16.0	24.0	32.0	40.0

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	471	549	628	706	785
Maximum Loads (t)	48.0	56.0	64.0	72.0	80.0

Auxiliary hoist loads

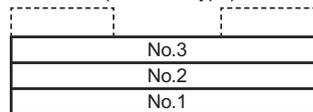
No. of Parts of Line	1
Maximum Loads (kN)	69
Maximum Loads (t)	7.0

Weight of hook block					
Hook Block	80 t	50 t	32 t	19 t	7.0 t Ball Hook
Weight (t)	0.8	0.7	0.5	0.4	0.16

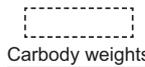
Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

<Reference Information>

Assembling the counterweight
22.8 ton counterweight
without carbody weight
(Standard type)

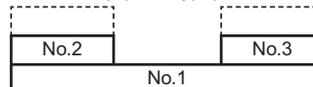


Counterweights

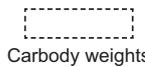


Carbody weights

Assembling the counterweight
(Equipped with self removal device)
17.7 ton counterweight
without carbody weight
(Optimal type)



Counterweights



Carbody weights

- The lifting capacity does not change due to the type of counterweights. (Standard or optimal)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Reduced Weights Rating Charts Crane Boom Lifting Capacities

Counterweight: 22.8 t
Without Carbody Weight
Crawler Fully Extended
Unit: metric ton

Load radius (m) \ Boom length (m)	9.1	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	Load radius (m) \ Boom length (m)
3.0	3.0m/73.8											3.0
3.5	68.7	3.6m/66.9										3.5
4.0	64.4	63.1	4.2m/58.4									4.0
4.5	55.4	55.4	53.3	4.7m/47.4								4.5
5.0	45.9	45.8	45.8	44.0	5.2m/38.9							5.0
5.5	39.2	39.1	39.0	39.0	37.2	5.7m/33.4						5.5
6.0	34.1	34.0	33.9	33.9	33.7	32.2	6.3m/29.2	6.8m/25.7				6.0
7.0	27.0	26.9	26.8	26.8	26.7	26.6	26.0	24.9	7.3m/22.7	7.9m/20.3		7.0
8.0	22.3	22.2	22.1	22.1	22.0	21.9	21.8	21.6	20.8	20.1	8.4m/18.4	8.0
9.0	19.0	18.9	18.7	18.7	18.6	18.5	18.4	18.3	18.3	17.7	17.1	9.0
10.0	9.2m/18.5	16.3	16.2	16.2	16.1	16.0	15.9	15.8	15.7	15.6	15.2	10.0
12.0		11.9m/12.9	12.7	12.6	12.5	12.4	12.3	12.2	12.2	12.0	12.0	12.0
14.0			10.3	10.3	10.2	10.1	10.0	9.8	9.8	9.7	9.6	14.0
16.0			14.5m/9.9	8.6	8.5	8.4	8.3	8.1	8.1	8.0	7.9	16.0
18.0				17.1m/7.9	7.2	7.1	7.0	6.9	6.8	6.7	6.6	18.0
20.0					19.8m/6.3	6.2	6.0	5.9	5.9	5.7	5.6	20.0
22.0						5.4	5.3	5.1	5.1	4.9	4.8	22.0
24.0						22.4m/5.3	4.6	4.5	4.4	4.3	4.2	24.0
26.0							25.1m/4.3	4.0	3.9	3.8	3.7	26.0
28.0								27.7m/3.5	3.5	3.3	3.2	28.0
30.0									3.1	2.9	2.8	30.0
32.0									30.3m/3.0	2.6	2.4	32.0
34.0										33.0m/2.3	2.1	34.0
36.0											35.0m/1.9	36.0
Reeves	10	9	8	6	5	5	4	4	3	3	3	Reeves

Load radius (m) \ Boom length (m)	42.7	45.7	48.8	51.8								Load radius (m) \ Boom length (m)
9.0	9.0m/16.5	9.4m/15.0										9.0
10.0	14.7	14.2	10.0m/13.7	10.5m/12.6								10.0
12.0	11.8	11.5	11.1	10.8								12.0
14.0	9.4	9.4	9.2	8.9								14.0
16.0	7.7	7.7	7.6	7.5								16.0
18.0	6.5	6.4	6.3	6.2								18.0
20.0	5.5	5.4	5.3	5.2								20.0
22.0	4.7	4.7	4.5	4.4								22.0
24.0	4.1	4.0	3.9	3.8								24.0
26.0	3.5	3.5	3.3	3.2								26.0
28.0	3.1	3.0	2.9	2.7								28.0
30.0	2.6	2.6	2.4	2.3								30.0
32.0	2.3	2.2	2.1	1.9								32.0
34.0	2.0	1.9	1.7	1.6								34.0
36.0	1.7	1.6	1.4	1.3								36.0
38.0	1.4	1.3	1.2	1.1								38.0
40.0	38.3m/1.3	1.1										40.0
42.0												42.0
44.0												44.0
46.0												46.0
48.0												48.0
50.0												50.0
Reeves	3	2	2	2								Reeves

Note:
Ratings according to EN13000.
Ratings shown in [] are determined by the strength of the boom or other structural components.
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.

Crawler Crane
55t
7055

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

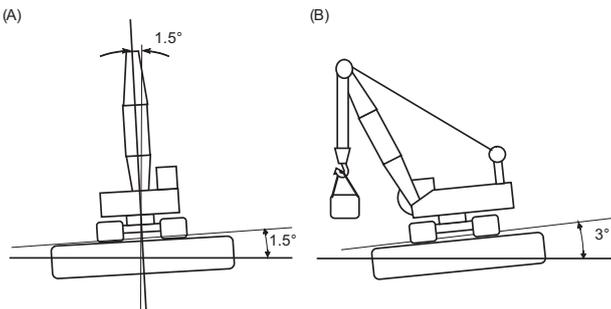
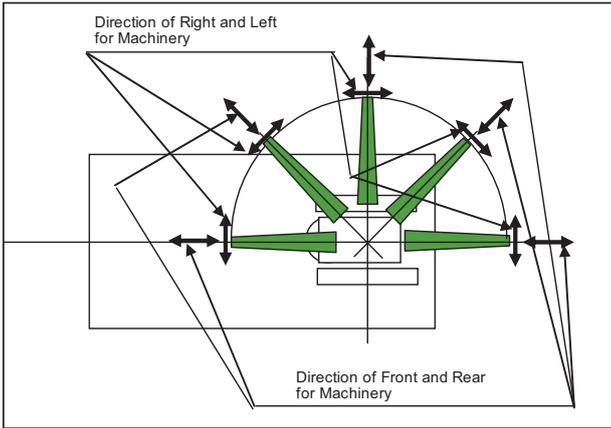
Bull Dozer

**Vibro Roller
Baby Roller**

Motor Grader

Supplemental Data For Barge Rating Chart

- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of hook block (s), slings and all other load handling accessories from main boom ratings shown.
- Condition of barge stability this rating chart were determined under the condition below. The stability of barge shall meet below condition. During operation the machinery static inclination against horizontal level.
 - (A) Both sides (right & left) of machine
Maximum inclination shall be within 1.5 degrees
 - (B) Front & backward of machine
Maximum inclination shall be within 3.0 degrees



- Working area shall be inshore and smooth water.
- Applicable regulations for structure Japanese construction codes for mobile crane
 - ※ Regulation of class of shipping (abs, lloyd, bv, nk, etc) are not adapted.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 part line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes are limited by strength of materials.

- The minimum rated load is 1.1 (ton).
 - Crawler frames must be fully extended for all crane operations.
 - The machinery should be fastened to the deck of the barge to prevent tip over and sliding.
 - Towing area
Towing area shall be within coastal area and quiet wave condition. Offshore and open sea is not considered for this machinery. Depend on the height of wave, counterweight shall be reduced during towing.
- (Crane Boom)
- The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

<Reference Information>

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	78	157	235	314	392
Maximum Loads (t)	8.0	16.0	24.0	32.0	40.0

No. of Parts of Line	6	7
Maximum Loads (kN)	471	490
Maximum Loads (t)	48.0	50.0

Auxiliary hoist loads

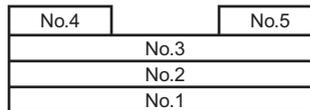
No. of Parts of Line	1
Maximum Loads (kN)	69
Maximum Loads (t)	7.0

Weight of Hook Block					
Hook Block	80 t	50 t	32 t	19 t	7.0 t Ball Hook
Weight (t)	0.8	0.7	0.5	0.4	0.16

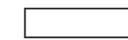
Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Assembling the counterweight

27.2 ton counterweight
6.5 ton carbody weight
(Standard type)



Counterweights



Carbody weights

Assembling the counterweight

(Equipped with self removal device)
26.1 ton counterweight
6.5 ton carbody weight
(Optimal type)



Counterweights



Carbody weights

- The lifting capacity does not change due to the type of counterweights (standard or optimal)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Barge Raiting Chart Crane Boom Lifting Capacities

Counterweight: 27.2 t
Carbody Weight: 6.5 t
Crawler Fully Extended
Unit: metric tons

Load radius (m)	Boom length (m)		18.3	21.3	24.4	27.4	30.5	33.5	36.6	Load radius (m)
	12.2	15.2								
4.0	4.2m/50.0	4.9m/40.2								4.0
5.0	39.7	39.5	5.6m/34.9							5.0
6.0	32.8	32.6	32.4	6.3m/30.7	6.9m/27.3					6.0
7.0	27.9	27.7	27.4	27.4	27.2	7.6m/24.5				7.0
8.0	24.2	24.1	23.8	23.7	23.5	23.4	8.3m/22.1			8.0
9.0	21.3	21.2	21.0	20.9	20.7	20.5	20.3	20.2	9.7m/18.3	9.0
10.0	18.5	18.4	18.3	18.3	18.2	18.1	18.0	18.0	17.8	10.0
12.0	11.8m/13.2	14.8	14.7	14.6	14.5	14.4	14.3	14.2	14.1	12.0
14.0		11.2	12.0	11.8	11.8	11.7	11.6	11.5	11.4	14.0
16.0		14.5m/10.2	10.1	10.0	9.9	9.7	9.6	9.5	9.4	16.0
18.0			17.1m/8.0	8.5	8.4	8.3	8.2	8.1	8.0	18.0
20.0				19.8m/7.0	7.2	7.1	7.1	7.0	6.9	20.0
22.0					6.4	6.3	6.1	6.0	5.9	22.0
24.0					22.4m/5.9	5.5	5.5	5.3	5.2	24.0
26.0						25.0m/5.1	4.8	4.7	4.6	26.0
28.0							27.7m/4.3	4.2	4.0	28.0
30.0								3.8	3.7	30.0
32.0								30.3m/3.7	3.3	32.0
34.0									33.0m/3.0	34.0
Reeves	7	6	5	4	4	4	3	3	3	Reeves

Note:

Ratings according to japanese construction codes for mobile cranes and japanese safety ordinance on cranes, etc.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Transportation Plan

80t
CKS800

Name	Dimension	Weight (kg)
Base Machine · Boom base · Gantry · Crawler · Wire rope (Front / rear / boom hoist)		39,850
Base Machine · Gantry · Crawler · Wire rope (Front / rear / boom hoist)		37,880
Base Machine · Boom base · Gantry · Wire rope (Front / rear / boom hoist) · Without crawler · Without side steps		25,490
Base Machine · Gantry · Wire rope (Front / rear / boom hoist) · Without crawler · Without side steps		23,520
Crawler		7,180

*1 With the side step on cabin side : 3,170
With the side steps on the both sides : 3,340

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Crawler Crane 90t CKS900

Manual PDF

**Crawler Crane
90t CKS900
(KOBELCO)**



Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

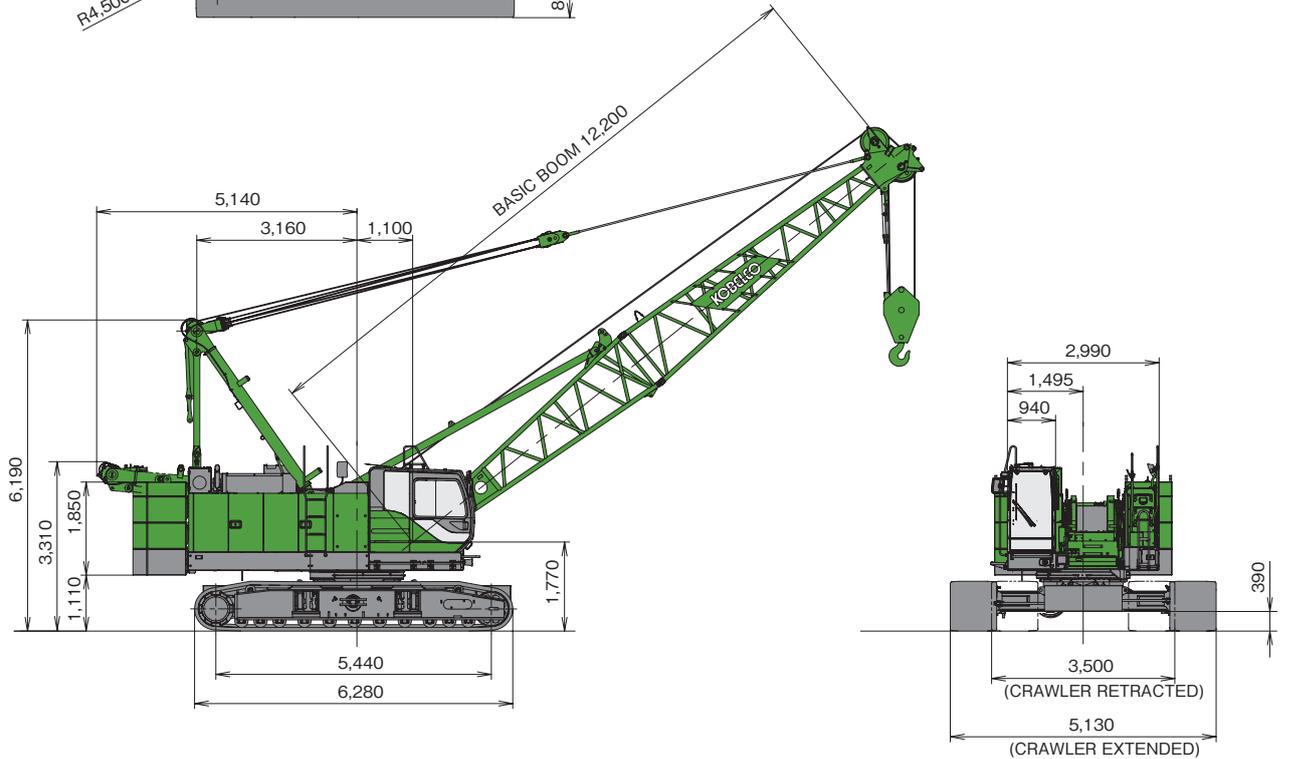
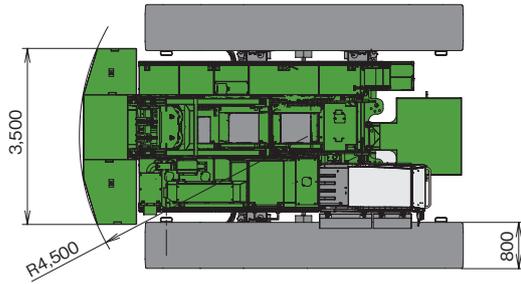
Vibro Roller

Baby Roller

Motor Grader

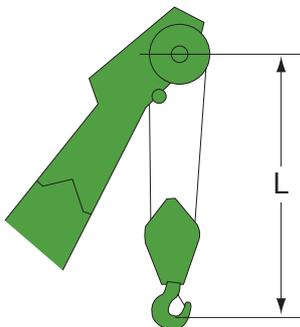
General Dimensions

(Unit: mm)

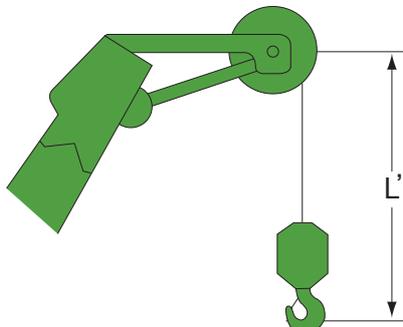


This catalog may contain photographs of machines with specifications, attachments and optional equipment.

Limit of Hook Lifting



Hook	L
90 t hook	4.1 m
70 t hook	4.1 m
50 t hook	4.0 m
35 t hook	3.9 m



Hook	L'
Ball hook	3.5 m

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Crane Boom Arrangements

Boom length m (ft)	Boom arrangement
12.2 (40)	
15.2 (50)	※
18.3 (60)	※
21.3 (70)	※
24.4 (80)	※
27.4 (90)	※
30.5 (100)	※
33.5 (110)	※
36.6 (120)	※
39.6 (130)	※

Boom length m (ft)	Boom arrangement
42.7 (140)	※
45.7 (150)	※
48.8 (160)	※
51.8 (170)	※
54.9 (180)	※
57.9 (190)	※
61.0 (200)	※

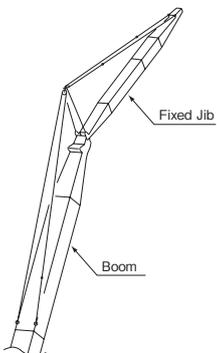
Symbol	Boom Length	Remarks
	5.8 m	Boom Base
	6.4 m	Boom Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	12.2 m	Insert Boom
	12.2 m	Insert Boom with lug

↗ mark shows the boom insert with lug attached and the guy line installing position when the fixed jib is used.

※ mark shows the standard boom arrangement which make the boom arrangement of less than the each boom length possible.

○ mark shows the installing of the cable roller for the insert boom.

Fixed Jib Arrangements



Crane boom length	Jib length m (ft)	Jib arrangement
24.4 m ~ 51.8 m	9.1 (30)	
	12.2 (40)	
	15.2 (50)	
	18.3 (60)	

Symbol	Jib Length	Remarks
	4.6 m	Jib Base
	4.6 m	Jib Top
	3.0 m	Insert Jib
	6.1 m	Insert Jib

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Specifications



Power Plant

Model: HINO J08E-VM
 Type: 4 cycle, water-cooled, vertical in-line 6, direct injection, turbo-charger, intercooler
 Displacement: 7,684 liters
 Rated power: 213 kW/2,100 min⁻¹
 Max. Torque: 1,017 N·m/1,600 min⁻¹
 Cooling System: Water-cooled
 Starter: 24V-5kW
 Radiator: Corrugated type core, thermostatically controlled
 Air cleaner: Dry type with replaceable paper element
 Throttle: Twist grip type hand throttle, electrically actuated
 Fuel filter: Replaceable paper element
 Batteries: Two 12V x 136 Ah/5HR capacity batteries, series connected
 Fuel tank capacity: 400 liters



Hydraulic System

Main pumps: 3 variable displacement piston pumps
 Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. Controls respond instantly to the touch, delivering smooth function operation.
 Cooling: Oil-to-air heat exchanger (plate-fin type)
 Filtration: Full-flow and bypass type with replaceable element
 Max. relief valve pressure:
 Load hoist, boom hoist and propel system: 31.9 MPa
 Swing system: 27.5 MPa
 Control system: 5.4 MPa
 Hydraulic Tank Capacity: 440 liters



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.
 Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.
 Drum Lock: External ratchet for locking drum
 Drum: Single drum, grooved for 16mm dia. wire rope
 Line Speed: Single line on first drum layer
 Hoisting/Lowering: 70 to 2 m/min
 Boom hoisting/lowering: 16 mm x 150 m
 Boom guy line: 30 mm
 Boom backstops: Required for all boom length



Load Hoisting System

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.
 Negative Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional)
 Drum Lock: External ratchet for locking drum
 Drums:
 Front Drums:
 614 mm P.C.D x 617 mm wide drum, grooved for 26 mm wire rope. Rope capacity is 240 m working length and 360 m storage length.
 Rear Drum: 614 mm P.C.D x 617 mm, grooved for 26 mm wire rope. Rope capacity is 165 m working length and 360 m storage length.
 Diameter of wire rope
 Main winch: 26 mm x 240 m
 Aux. winch: 26 mm x 165 m
 Third winch: 22 mm x 145 m
 Line Speed*:
 Hoisting/lowering: 120 to 3 m/min
 Line Pull:
 Max. Line Pull* : 208 kN {21.2 ft}
 (Referential performance)
 Rated Line Pull: 112 kN {11.4 ft}
 *Single line on first drum layer



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducer, the swing system provides 360° rotation.
 Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.
 Swing circle: Single-row ball bearing with an integral internally cut swing gear.
 Swing lock: Manually, four position lock for transportation
 Swing Speed: 4.0 min⁻¹



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine will with low noise level.
 Counterweight: 31.9 ton



Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a headrest and armrests, and intermittent wiper and window washer (skylight and front window).
 Cab fittings:
 Air conditioner, convenient compartment (for tool), cup holder, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, footrest, and shoe tray

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader



Lower Structure

Steel-welded carbody with axles. Crawler assemblies can be hydraulically extended for wide-track operation or retracted for transportation. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Carbodyweight: 14.4 ton

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoe (flat): 800 mm wide each crawler

Max. gradeability: 40%



Weight

Including upper and lower machine, 31.9 ton counterweight and 14.4 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Weight: 90.1 ton

Ground pressure: 101 kPa



Attachment

Boom & Jib:

Welded lattice construction using tubular, high-tensile steel chords with pin connection between sections.

Boom and Jib length

	Min. Length (Min. combination)	Max. Length (Max. combination)
Crane Boom	12.2 m	61.0 m
Fixed Jib	24.4 m + 9.1 m	51.8 m + 18.3 m

Main Specifications (Model: CKS900)

Crane Boom	
Max. Lifting Capacity	100 t* x 3.6 m / 90 t x 3.9 m *3
Max. Length	61.0 m
Fixed Jib	
Max. Lifting Capacity	10.9 t x 18.0 m
Max. Combination	51.8 m + 18.3 m
Main & Aux. Winch	
Max. Line Speed (1st layer)	120 m/min
Rated Line Pull (Single line)	112 kN {11.4 tf}
Wire Rope Diameter	26 mm
Wire Rope Length	240 m (Main), 165 m (Aux)
Brake Type (free fall)	Wet-type multiple disc brake (Optional)
Working Speed	
Swing Speed	4.0 min ⁻¹ {rpm}
Travel Speed	1.7/1.1 km/h
Power Plant	
Model	HINO J08E-VM
Engine Output	213 kW/2100min ⁻¹
Fuel Tank	400 liters

Hydraulic System	
Main Pumps	3 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm ² }
Hydraulic Tank Capacity	440 liters
Self-Removal Device	
	Counterweight/self-removal device (Option)
Weight	
Operating Weight	90.1t *1
Ground Pressure	101 kPa
Counterweight	31,900 kg
Transport Weight	41,360 kg *2

Units are SI units. { } indicates conventional units.

Line speeds in table are for light loads. Line speed varies with load.

*1 Including upper and lower machine, 31.9 ton counterweight, 14.4 ton carbody weight, basic boom, hook, and other accessories.

*2 Base machine with boom base, gantry, crawlers, and wire ropes (front/boom hoist)

*3 Auxiliary sheave is must.

* The value are theoretical result.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

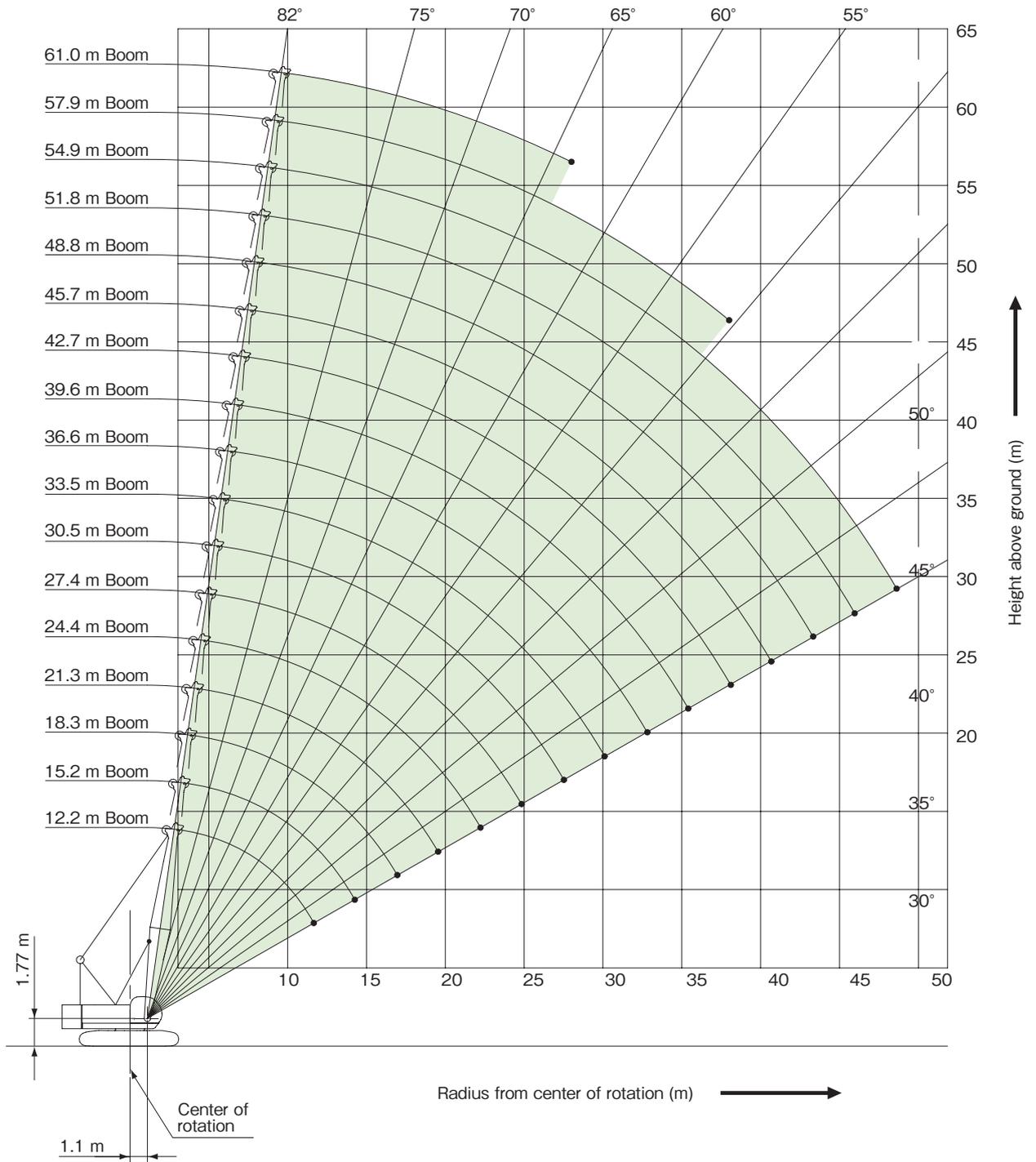
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges

Crane Boom



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

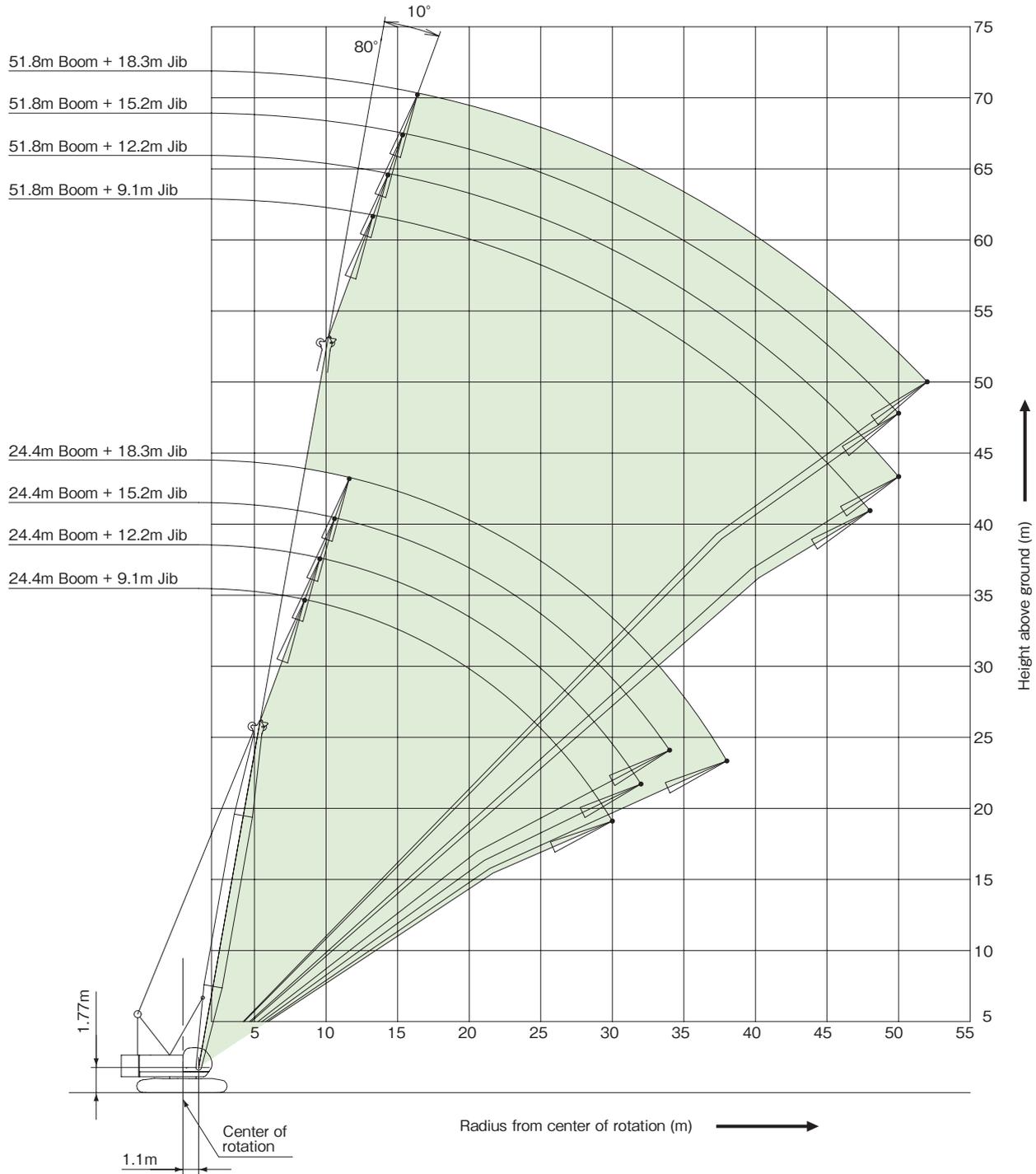
Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Fixed Jib 10°



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900**
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

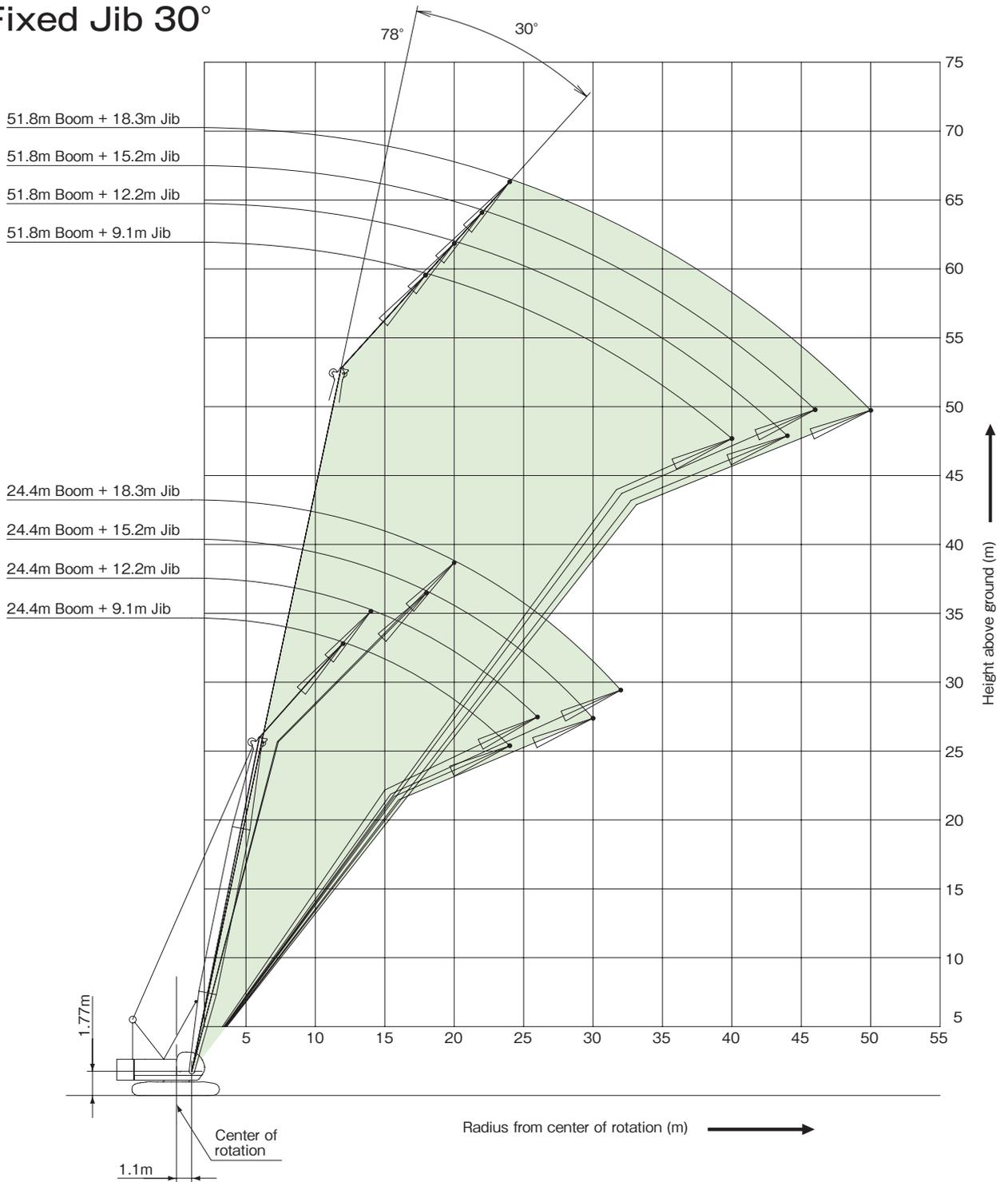
- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Working Ranges

Fixed Jib 30°



- Crawler Crane**
- 55t 7055
- 80t CKS800
- 90t CKS900**
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2
- Rough Terrain Crane**
- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL
- 60t GR-600EX
- 80t GR-800EX
- All Terrain Crane**
- 160t ATF160G-5
- 200t LTM1200-5.1
- 220t ATF220G-5
- Aerial Platform**
- Boom Lift
- Scissors Lift
- Others**
- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

- Ratings according to EN13000.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of hook block (s), slings and all other load handling accessories from main boom ratings shown.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment.
The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for operation on a firm and level surface, up to 1 % gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 part line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes are limited by strength of materials.
- The minimum rated load is 1.4 (ton).
- Crawler frames must be fully extended for all crane operations.

(Crane boom lifting)

- The total load that can be lifted is the value for weight of main hook block, slings, and all other load handling accessories deducted from crane boom ratings shown.

(Fixed jib lifting)

- The total load that can be lifted is the value for weight of jib hook block, slings, and all other load handling accessories deducted from fixed jib ratings shown.
- The availability of fixed jib mounting
 - On crane boom : Range 24.4 m to 51.8 m.

<Reference Information>

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	112	224	335	447	559
Maximum Loads (t)	11.4	22.8	34.2	45.6	57.0

No. of Parts of Line	6	7	8
Maximum Loads (kN)	671	779	883
Maximum Loads (t)	68.4	79.4	90.0

Auxiliary hoist loads

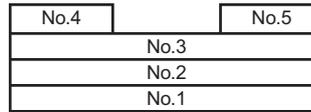
No. of Parts of Line	1
Maximum Loads (kN)	108
Maximum Loads (t)	11.0

Weight of hook block					
Hook Block	90 t	70 t	50 t	35 t	Ball Hook
Weight (t)	1.3	0.9	0.85	0.7	0.3

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Assembling the counterweight

31.9 ton counterweight
14.4 ton carbody weight
(standard type)



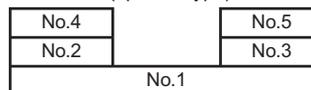
Counterweights



Carbody weights

Assembling the counterweight

(Equipped with self removal device)
31.3 ton counterweight
14.4 ton carbody weight
(optional type)



Counterweights



Carbody weights

- The lifting capacity does not change due to the type of counterweights (standard or optional).

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Crane Boom Lifting Capacities

Counterweight: 31.9 t
Carbody Weight: 14.4 t

Unit: metric ton

Working radius (m)	Boom length (m)										Working radius (m)	
	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6		
3.6	100.0*											3.6
3.9	90.0	89.9	89.7									3.9
4.0	89.0	88.9	88.7	4.3m/68.4								4.0
4.5	79.6	79.5	79.4	68.4	4.7m/68.4							4.5
5.0	72.1	71.9	71.8	68.4	67.6	5.1m/57.0						5.0
5.5	65.8	65.7	65.5	63.6	60.6	57.0	5.6m/54.0					5.5
6.0	60.5	60.3	59.9	57.5	54.9	52.7	50.5	45.6	6.4m/41.9	6.8m/34.2		6.0
7.0	48.6	48.5	48.4	48.1	46.2	44.5	42.9	41.5	40.0	34.2		7.0
8.0	39.9	39.8	39.7	39.9	39.8	38.5	37.2	36.1	35.0	33.9		8.0
9.0	33.8	33.7	33.6	33.8	33.6	33.6	32.8	31.9	31.0	30.1		9.0
10.0	29.3	29.2	29.1	29.2	29.1	29.0	28.9	28.5	27.7	27.0		10.0
12.0	11.8m/22.9	22.9	22.8	22.9	22.8	22.7	22.6	22.6	22.5	22.3		12.0
14.0		18.8	18.6	18.8	18.6	18.5	18.4	18.4	18.3	18.3		14.0
16.0		14.4m/18.1	15.7	15.8	15.7	15.6	15.5	15.4	15.3	15.3		16.0
18.0			17.0m/14.5	13.7	13.5	13.4	13.3	13.2	13.1	13.1		18.0
20.0				19.6m/12.2	11.8	11.7	11.6	11.5	11.4	11.4		20.0
22.0					10.5	10.4	10.2	10.2	10.0	10.0		22.0
24.0					22.3m/10.3	9.3	9.1	9.1	8.9	8.9		24.0
26.0						24.9m/8.8	8.2	8.2	8.0	8.0		26.0
28.0							27.6m/7.6	7.4	7.2	7.2		28.0
30.0								6.8	6.6	6.5		30.0
32.0								30.2m/6.7	6.0	6.0		32.0
34.0									32.9m/5.8	5.5		34.0
36.0										35.5m/5.1		36.0
Reeves	8	8	8	6	6	5	5	4	4	4	Reeves	

Working radius (m)	Boom length (m)							Working radius (m)
	42.7	45.7	48.8	51.8	54.9	57.9	61.0	
7.0	7.3m/31.9	7.7m/28.0						7.0
8.0	31.4	27.8	8.1m/22.1	8.5m/19.2				8.0
9.0	29.2	26.2	20.8	18.6	16.2	9.4m/13.9	9.8m/11.8	9.0
10.0	26.2	24.5	19.5	17.4	15.2	13.4	11.7	10.0
12.0	21.7	21.2	17.3	15.4	13.3	11.7	10.2	12.0
14.0	18.1	18.0	15.5	13.8	11.9	10.4	9.0	14.0
16.0	15.2	15.1	14.1	12.4	10.7	9.3	8.0	16.0
18.0	12.9	12.9	12.8	11.4	9.7	8.4	7.2	18.0
20.0	11.2	11.2	11.1	10.4	8.9	7.6	6.5	20.0
22.0	9.9	9.8	9.8	9.6	8.1	7.0	5.9	22.0
24.0	8.7	8.7	8.6	8.5	7.5	6.4	5.4	24.0
26.0	7.8	7.7	7.7	7.6	6.9	5.9	4.9	26.0
28.0	7.0	7.0	6.9	6.8	6.4	5.4	4.5	28.0
30.0	6.4	6.3	6.3	6.1	6.0	5.0	4.1	30.0
32.0	5.8	5.7	5.7	5.6	5.4	4.6	3.8	32.0
34.0	5.3	5.2	5.1	5.0	4.9	4.3	3.4	34.0
36.0	4.8	4.8	4.7	4.6	4.4	4.0	3.2	36.0
38.0	4.4	4.4	4.2	4.1	4.0	3.6	2.9	38.0
40.0	38.1m/4.4	4.0	3.9	3.8	3.6	3.3	2.6	40.0
44.0		40.8m/3.9	43.4m/3.3	3.1	3.0	2.8	2.1	44.0
48.0				46.1m/2.8	2.5	2.2	1.7	48.0
52.0					48.7m/2.4	51.4m/1.8		52.0
Reeves	4	4	2	2	2	2	2	Reeves

Note:

Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

* The value are theoretical result.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

48.0

Booms Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 10°)

Counterweight: 31.9 t
Carbody Weight: 14.4 t

Unit: metric ton

Boom length (m)	24.4				27.4				30.5				Boom length (m)	
Jib length (m)	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	Jib length (m)	
Working radius (m)	9.0	10.9											9.0	
	10.0	10.9			10.9				10.9				10.0	
	12.0	10.9	10.9	9.0	10.9	10.9	9.0		10.9	10.9			12.0	
	14.0	10.9	10.9	9.0	8.1	10.9	10.9	9.0	8.1	10.9	10.9	9.0	8.1	14.0
	16.0	10.9	10.5	8.7	7.7	10.9	10.9	9.0	7.9	10.9	10.9	9.0	8.1	16.0
	18.0	10.9	9.5	7.8	6.8	10.9	10.2	8.3	7.2	10.9	10.6	8.7	7.5	18.0
	20.0	10.3	8.6	7.1	6.2	10.2	9.2	7.5	6.5	10.1	9.7	7.9	6.8	20.0
	22.0	9.0	7.8	6.5	5.6	8.9	8.4	6.9	5.9	8.8	8.9	7.2	6.2	22.0
	24.0	8.0	7.2	5.9	5.1	7.9	7.7	6.3	5.4	7.8	8.0	6.6	5.7	24.0
	26.0	7.2	6.7	5.5	4.7	7.1	7.1	5.8	5.0	7.0	7.1	6.2	5.3	26.0
	28.0	6.5	6.2	5.1	4.4	6.4	6.5	5.4	4.6	6.3	6.4	5.7	4.9	28.0
	30.0	5.9	5.8	4.8	4.1	5.8	5.9	5.1	4.3	5.7	5.8	5.4	4.6	30.0
	32.0		5.5	4.5	3.8	5.3	5.4	4.8	4.1	5.2	5.3	5.1	4.3	32.0
	34.0			4.2	3.6		4.9	4.5	3.8	4.7	4.8	4.8	4.0	34.0
	36.0				3.4			4.3	3.6		4.4	4.5	3.8	36.0
	38.0				3.2			4.1	3.4		4.0	4.1	3.6	38.0
	40.0								3.2			3.8	3.4	40.0
	42.0												3.3	42.0
	44.0												3.1	44.0
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	

Boom length (m)	33.5				36.6				39.6				Boom length (m)	
Jib length (m)	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	Jib length (m)	
Working radius (m)	12.0	10.9	10.9		10.9				10.9				12.0	
	14.0	10.9	10.9	9.0	8.1	10.9	10.9	9.0		10.9	10.9	9.0	14.0	
	16.0	10.9	10.9	9.0	8.1	10.9	10.9	9.0	8.1	10.9	10.9	9.0	8.1	16.0
	18.0	10.9	10.9	9.0	7.8	10.9	10.9	9.0	8.1	10.9	10.9	9.0	8.1	18.0
	20.0	10.0	10.1	8.3	7.1	9.9	10.0	8.6	7.4	9.8	9.9	9.0	7.7	20.0
	22.0	8.7	8.8	7.6	6.5	8.6	8.7	8.0	6.8	8.5	8.6	8.2	7.0	22.0
	24.0	7.8	7.8	7.0	6.0	7.5	7.7	7.3	6.2	7.4	7.6	7.7	6.5	24.0
	26.0	7.0	7.0	6.5	5.5	6.7	6.9	6.8	5.8	6.6	6.8	6.9	6.0	26.0
	28.0	6.2	6.3	6.0	5.1	6.1	6.2	6.2	5.4	6.0	6.1	6.1	5.6	28.0
	30.0	5.6	5.7	5.6	4.8	5.5	5.5	5.7	5.0	5.4	5.4	5.6	5.2	30.0
	32.0	5.1	5.2	5.2	4.5	5.0	5.0	5.1	4.7	4.8	4.9	5.0	4.9	32.0
	34.0	4.7	4.7	4.8	4.2	4.5	4.6	4.7	4.4	4.4	4.5	4.5	4.6	34.0
	36.0	4.2	4.3	4.4	4.0	4.1	4.2	4.2	4.2	4.0	4.1	4.1	4.2	36.0
	38.0	3.9	4.0	4.0	3.8	3.8	3.8	3.9	3.9	3.7	3.7	3.8	3.8	38.0
	40.0		3.7	3.7	3.6	3.4	3.5	3.6	3.6	3.3	3.4	3.4	3.5	40.0
	42.0			3.4	3.4		3.2	3.3	3.3	3.0	3.1	3.2	3.2	42.0
	44.0				3.2			3.0	3.1		2.7	2.9	2.9	44.0
	46.0								2.8			2.6	2.7	46.0
	48.0								2.4			2.2	2.4	48.0
50.0												2.1	50.0	
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	

Note:
Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
GR-2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 10°)

Counterweight: 31.9 t
Carbody Weight: 14.4 t

Unit: metric ton

Boom length (m)		42.7				45.7				48.8				Boom length (m)
Jib length (m)		9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	Jib length (m)
Working radius (m)	14.0	10.9	10.9			10.9	10.9			10.9				14.0
	16.0	10.9	10.9	9.0		10.9	10.9	9.0		10.9	10.9			16.0
	18.0	10.9	10.9	9.0	8.1	10.8	10.9	9.0	8.1	10.8	10.9	9.0	8.1	18.0
	20.0	9.6	9.8	9.0	7.9	9.5	9.6	9.0	8.1	9.5	9.6	9.0	8.1	20.0
	22.0	8.4	8.5	8.5	7.3	8.3	8.4	8.5	7.6	8.2	8.4	8.5	7.8	22.0
	24.0	7.3	7.5	7.6	6.7	7.2	7.4	7.5	7.0	7.2	7.3	7.4	7.2	24.0
	26.0	6.5	6.7	6.7	6.3	6.4	6.5	6.7	6.5	6.3	6.5	6.6	6.7	26.0
	28.0	5.8	5.9	6.0	5.8	5.7	5.8	5.9	6.0	5.7	5.8	5.9	5.9	28.0
	30.0	5.2	5.3	5.4	5.4	5.1	5.2	5.3	5.4	5.1	5.2	5.2	5.3	30.0
	32.0	4.7	4.8	4.9	4.9	4.6	4.7	4.8	4.8	4.6	4.6	4.7	4.8	32.0
	34.0	4.3	4.3	4.4	4.5	4.2	4.2	4.3	4.4	4.1	4.2	4.3	4.3	34.0
	36.0	3.8	3.9	4.0	4.0	3.7	3.8	3.9	3.9	3.7	3.8	3.8	3.9	36.0
	38.0	3.5	3.6	3.6	3.7	3.5	3.5	3.5	3.6	3.4	3.4	3.5	3.5	38.0
	40.0	3.2	3.3	3.3	3.3	3.1	3.2	3.2	3.3	3.0	3.1	3.2	3.2	40.0
	42.0	2.9	3.0	3.0	3.1	2.8	2.9	2.9	3.0	2.8	2.8	2.9	2.9	42.0
	44.0	2.5	2.7	2.8	2.8	2.5	2.6	2.7	2.7	2.5	2.5	2.6	2.6	44.0
	46.0	2.2	2.3	2.5	2.6	2.2	2.3	2.4	2.5	2.2	2.2	2.4	2.4	46.0
	48.0		2.0	2.2	2.3	1.8	2.0	2.1	2.2	1.8	1.9	2.1	2.1	48.0
	50.0			1.9	2.0		1.7	1.8	1.9	1.4	1.6	1.8	1.9	50.0
	52.0				1.7			1.6	1.7			1.5	1.6	52.0
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	

Boom length (m)		51.8			
Jib length (m)		9.1	12.2	15.2	18.3
Working radius (m)	14.0	10.9			
	16.0	10.9	10.9		
	18.0	10.7	10.8	9.0	8.1
	20.0	9.4	9.5	9.0	8.1
	22.0	8.1	8.3	8.3	8.0
	24.0	7.1	7.2	7.3	7.4
	26.0	6.2	6.4	6.5	6.6
	28.0	5.6	5.7	5.8	5.8
	30.0	5.0	5.1	5.1	5.2
	32.0	4.4	4.5	4.6	4.7
	34.0	4.0	4.1	4.2	4.2
	36.0	3.6	3.6	3.7	3.8
	38.0	3.3	3.3	3.4	3.4
	40.0	2.9	3.0	3.0	3.1
42.0	2.7	2.7	2.8	2.8	
44.0	2.3	2.4	2.5	2.5	
46.0	2.1	2.1	2.2	2.3	
48.0	1.7	1.8	1.9	2.0	
50.0		1.5	1.6	1.7	
52.0				1.5	
Reeves	1	1	1	1	

Note:

Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

**Vibro Roller
Baby Roller**

Motor Grader

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 30°)

Counterweight: 31.9 t
Carbody Weight: 14.4 t

Unit: metric ton

Boom length (m)	24.4				27.4				30.5				Boom length (m)	
Jib length (m)	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	Jib length (m)	
Working radius (m)	12.0	9.5											12.0	
	14.0	9.3	6.9		9.4				9.5				14.0	
	16.0	8.6	6.4		8.9	6.5			9.0	6.7			16.0	
	18.0	8.0	5.9	4.8		8.3	6.1	4.9		8.6	6.2	5.0	18.0	
	20.0	7.5	5.6	4.5	3.8	7.8	5.7	4.6	3.9	8.0	5.9	4.7	3.9	20.0
	22.0	7.1	5.3	4.2	3.6	7.4	5.4	4.3	3.6	7.6	5.6	4.4	3.7	22.0
	24.0	6.8	5.0	4.0	3.4	7.0	5.1	4.1	3.4	7.3	5.3	4.2	3.5	24.0
	26.0		4.8	3.8	3.2		4.9	3.9	3.2	7.0	5.1	4.0	3.3	26.0
	28.0			3.6	3.0		4.7	3.7	3.0	6.4	4.9	3.8	3.1	28.0
	30.0			3.5	2.9			3.6	2.9		4.7	3.7	3.0	30.0
	32.0				2.8			3.5	2.8			3.6	2.9	32.0
	34.0								2.7				2.8	34.0
36.0												2.7	36.0	
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	

Boom length (m)	33.5				36.6				39.6				Boom length (m)	
Jib length (m)	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	Jib length (m)	
Working radius (m)	14.0	9.5			9.5								14.0	
	16.0	9.3	6.8		9.4				9.5				16.0	
	18.0	8.8	6.4		9.0	6.5			9.2	6.6			18.0	
	20.0	8.3	6.1	4.8	4.0	8.5	6.2	4.9	4.1	8.8	6.3	4.9	20.0	
	22.0	7.9	5.7	4.5	3.8	8.1	5.9	4.6	3.9	8.3	6.0	4.7	3.9	22.0
	24.0	7.5	5.5	4.3	3.6	7.7	5.6	4.4	3.7	7.7	5.7	4.5	3.7	24.0
	26.0	7.1	5.2	4.1	3.4	7.0	5.4	4.2	3.5	6.9	5.5	4.3	3.5	26.0
	28.0	6.4	5.0	3.9	3.2	6.2	5.1	4.0	3.3	6.1	5.2	4.1	3.3	28.0
	30.0	5.7	4.8	3.8	3.1	5.6	4.9	3.8	3.2	5.5	5.1	3.9	3.2	30.0
	32.0		4.7	3.7	3.0	5.1	4.8	3.7	3.1	5.0	4.9	3.8	3.1	32.0
	34.0			3.5	2.9		4.6	3.6	3.0		4.6	3.7	3.0	34.0
	36.0				2.8			3.5	2.9		4.1	3.6	2.9	36.0
	38.0				2.7			3.4	2.8			3.5	2.8	38.0
	40.0								2.7				2.7	40.0
	42.0												2.6	42.0
	Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves

Note:
Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 30°)

Counterweight: 31.9 t
Carbody Weight: 14.4 t

Unit: metric ton

Boom length (m)	42.7				45.7				48.8				Boom length (m)	
Jib length (m)	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	9.1	12.2	15.2	18.3	Jib length (m)	
Working radius (m)	16.0	9.5			9.5								16.0	
	18.0	9.4	6.7		9.5				9.5				18.0	
	20.0	8.9	6.4	5.1	9.1	6.5	5.1		9.2	6.6	5.1		20.0	
	22.0	8.4	6.1	4.8	4.0	8.4	6.2	4.9	4.0	8.5	6.3	4.9	4.1	22.0
	24.0	7.6	5.8	4.6	3.8	7.6	5.9	4.7	3.8	7.5	6.0	4.7	3.9	24.0
	26.0	6.7	5.6	4.4	3.6	6.6	5.7	4.5	3.7	6.6	5.8	4.5	3.7	26.0
	28.0	6.0	5.4	4.2	3.4	5.9	5.5	4.3	3.5	5.9	5.6	4.3	3.6	28.0
	30.0	5.3	5.2	4.0	3.3	5.3	5.3	4.1	3.3	5.2	5.4	4.1	3.4	30.0
	32.0	4.8	5.0	3.9	3.2	4.8	4.9	4.0	3.2	4.7	4.9	4.0	3.3	32.0
	34.0	4.4	4.5	3.8	3.1	4.3	4.4	3.9	3.1	4.2	4.4	3.9	3.2	34.0
	36.0	3.9	4.1	3.7	3.0	3.9	4.0	3.7	3.0	3.9	3.9	3.8	3.1	36.0
	38.0		3.7	3.6	2.9	3.5	3.6	3.6	2.9	3.5	3.6	3.7	3.0	38.0
	40.0			3.5	2.8			3.4	2.8		3.2	3.4	2.9	40.0
	42.0				2.7			3.1	2.7		2.9	3.0	2.8	42.0
	44.0				2.6				2.7			2.7	2.7	44.0
	46.0												2.6	46.0
48.0												2.3	48.0	
Reeves	1	1	1	1	1	1	1	1	1	1	1	1	Reeves	

Boom length (m)	51.8				
Jib length (m)	9.1	12.2	15.2	18.3	
Working radius (m)	18.0	9.5			
	20.0	9.3	6.6		
	22.0	8.5	6.4	5.0	
	24.0	7.5	6.1	4.8	3.9
	26.0	6.6	5.9	4.6	3.8
	28.0	5.9	5.7	4.4	3.6
	30.0	5.2	5.4	4.2	3.5
	32.0	4.7	4.8	4.1	3.4
	34.0	4.2	4.3	4.0	3.3
	36.0	3.7	3.8	3.9	3.2
	38.0	3.3	3.5	3.6	3.1
	40.0	3.0	3.2	3.3	3.0
	42.0		2.9	3.0	2.9
44.0		2.6	2.7	2.6	
46.0			2.4	2.4	
48.0				2.2	
50.0				2.0	
Reeves	1	1	1	1	

Note:

Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Supplemental Data For Reduced Weights Rating Chart

- Ratings according to EN13000.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of hook block (s), slings and all other load handling accessories from main boom ratings shown.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for operation on a firm and level surface, up to 1% gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 part line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes are limited by strength of materials.
- The minimum rated load is 1.4 (Ton).
- Crawler frames must be fully extended for all crane operations.

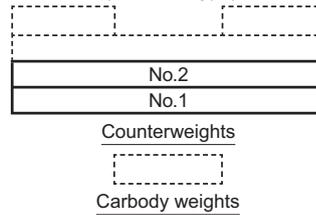
(Crane boom lifting)

- The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

Counterweight	Carbody weight	Boom length	
		Without aux.	With aux.
20.5 ton	Without	12.2 m ~ 57.9 m	12.2 m ~ 54.9 m
19.8 ton	Without	12.2 m ~ 57.9 m	12.2 m ~ 54.9 m

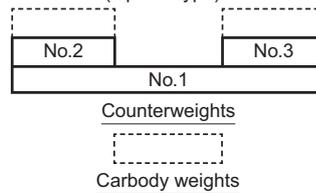
Assembling the counterweight

20.5 ton counterweight without carbody weight (Standard type)



Assembling the counterweight (Equipped with self removal device)

19.8 ton counterweight without carbody weight (Optimal type)



- The lifting capacity does not change due to the type of counterweights. (Standard or optimal)

<Reference Information>

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	112	224	335	447	559
Maximum Loads (t)	11.4	22.8	34.2	45.6	57.0

No. of Parts of Line	6	7	8
Maximum Loads (kN)	671	779	883
Maximum Loads (t)	68.4	79.4	90.0

Auxiliary hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	108
Maximum Loads (t)	11.0

Weight of hook block					
Hook Block	90 t	70 t	50 t	35 t	Ball Hook
Weight (t)	1.3	0.9	0.85	0.7	0.3

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

Lifting Capacities - Reduced Weights -

Reduced Weights Rating Charts Crane Boom Lifting Capacities

Counterweight: 20.5 t
Without Carbody Weight
Crawler Fully Extended
Unit: metric ton

Load radius (m) \ Boom length (m)	12.2	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6				Boom length (m) \ Load radius (m)
3.9	81.2	77.3	71.4											3.9
4.0	80.2	74.6	69.0	4.3m/59.0										4.0
4.5	67.1	63.2	59.1	55.8	4.7m/49.9									4.5
5.0	54.8	54.8	51.6	49.0	46.4	5.1m/42.2								5.0
5.5	46.2	46.2	45.8	43.7	41.6	39.7	5.6m/37.1							5.5
6.0	40.0	39.9	39.7	39.4	37.6	36.0	34.5	33.1	6.4m/29.8	6.8m/26.9				6.0
7.0	31.3	31.2	31.1	30.9	30.6	30.3	29.2	28.2	27.1	26.2				7.0
8.0	25.7	25.6	25.4	25.4	25.4	25.3	25.2	24.4	23.6	22.8				8.0
9.0	21.7	21.6	21.4	21.4	21.4	21.4	21.3	21.3	20.8	20.1				9.0
10.0	18.8	18.6	18.5	18.5	18.5	18.5	18.5	18.4	18.3	18.2	18.0			10.0
12.0	11.8m/15.0	14.5	14.4	14.4	14.4	14.3	14.2	14.2	14.0	13.9				12.0
14.0		11.9	11.7	11.7	11.7	11.6	11.5	11.4	11.3	11.2				14.0
16.0		14.4m/11.5	9.8	9.8	9.8	9.7	9.6	9.5	9.4	9.3				16.0
18.0			17.0m/9.0	8.4	8.3	8.3	8.1	8.1	7.9	7.8				18.0
20.0				19.6m/7.6	7.2	7.1	7.0	6.9	6.8	6.7				20.0
22.0					6.4	6.3	6.1	6.1	5.9	5.8				22.0
24.0					22.3m/6.3	5.6	5.4	5.3	5.2	5.1				24.0
26.0						24.9m/5.3	4.8	4.8	4.6	4.5				26.0
28.0							27.6m/4.4	4.3	4.1	4.0				28.0
30.0								3.8	3.7	3.6				30.0
32.0								30.2m/3.8	3.3	3.2				32.0
34.0									32.9m/3.2	2.9				34.0
36.0										35.5m/2.7				36.0
38.0														38.0
40.0														40.0
44.0														44.0
Reeves	8	8	8	6	5	4	4	4	4	4				Reeves

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Load radius (m) \ Boom length (m)	42.7	45.7	48.8	51.8	54.9	57.9								Boom length (m) \ Load radius (m)
4.5	7.3m/24.1	7.7m/22.2												4.5
5.0	22.0	21.4	8.1m/19.8	8.5m/17.2										5.0
5.5	19.5	18.9	18.3	16.6	14.5	9.4m/12.5								5.5
6.0	17.4	16.9	16.4	15.5	13.5	11.9								6.0
7.0	13.8	13.7	13.5	13.1	11.9	10.4								7.0
8.0	11.1	11.1	11.1	11.0	10.6	9.3								8.0
9.0	9.1	9.1	9.1	9.0	8.9	8.3								9.0
10.0	7.7	7.7	7.7	7.6	7.5	7.4								10.0
12.0	6.6	6.6	6.5	6.4	6.3	6.3								12.0
14.0	5.7	5.7	5.6	5.5	5.4	5.4								14.0
16.0	4.9	4.9	4.9	4.8	4.7	4.6								16.0
18.0	4.3	4.3	4.3	4.2	4.1	4.0								18.0
20.0	3.8	3.8	3.8	3.7	3.6	3.5								20.0
22.0	3.4	3.4	3.4	3.3	3.1	3.0								22.0
24.0	3.1	3.1	3.0	2.9	2.7	2.6								24.0
26.0	2.7	2.7	2.6	2.5	2.3	2.3								26.0
28.0	2.4	2.4	2.3	2.2	2.0	1.9								28.0
30.0	2.1	2.1	2.0	1.9	1.7	1.7								30.0
32.0	38.1m/2.1	1.9	1.8	1.6	1.5	1.4								32.0
34.0		40.8m/1.8	43.4m/1.4											34.0
36.0														36.0
38.0														38.0
40.0														40.0
44.0														44.0
48.0														48.0
52.0														52.0
Reeves	4	2	2	2	2	2								Reeves

Ratings according to EN13000.

Ratings shown in [] are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

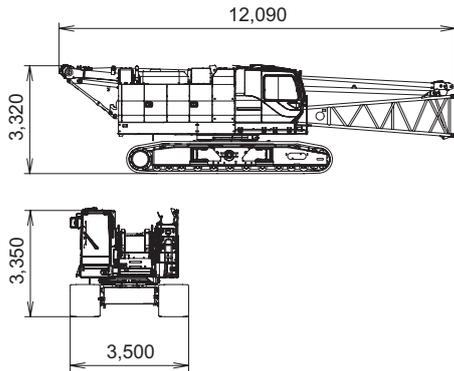
Bull Dozer

**Vibro Roller
Baby Roller**

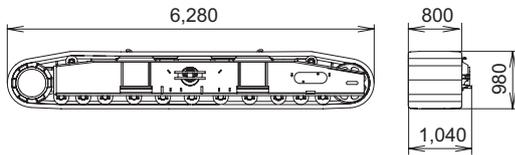
Motor Grader

Parts And Attachments

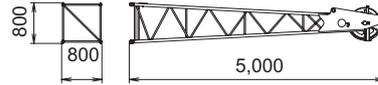
Base Machine
 Boom base, Gantry, Crawler, Wire rope (Front/rear/boom hoist)
 Weight: 41,360 kg Width: 3,500 mm



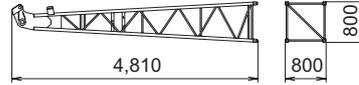
Crawler
 Weight: 7,180 kg



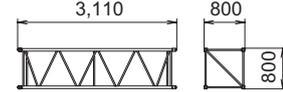
Upper Jib
 Weight: 180 kg



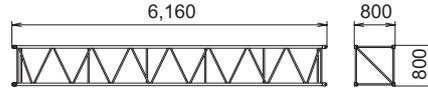
Lower Jib
 Weight: 200 kg



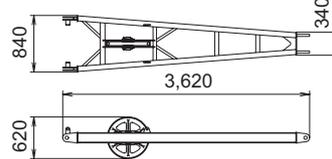
3.0 m Jib Insert
 Weight: 100 kg



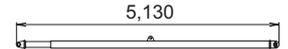
6.1 m Jib Insert
 Weight: 180 kg



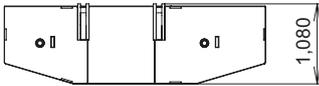
Strut
 Weight: 250 kg



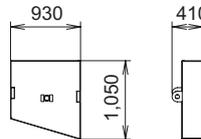
Crane Backstop
 Weight: 270 kg (1 set)



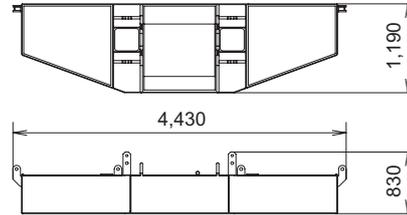
Counterweight No.1
 Weight: 10,540 kg



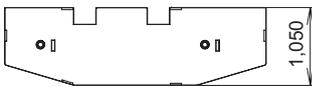
Counterweight No.4 (L)
 Weight: 1,280 kg



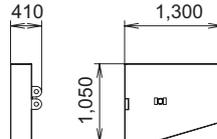
Counterweight (1) (Option)
 Weight: 8,310 kg



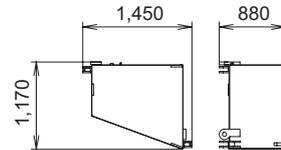
Counterweight No.2
 Weight: 9,930 kg



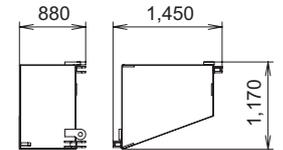
Counterweight No.4 (R)
 Weight: 1,900 kg



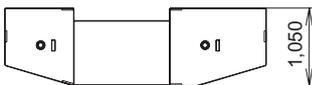
Counterweight (L) (2) (4) (Option)
 Weight: 5,750 kg



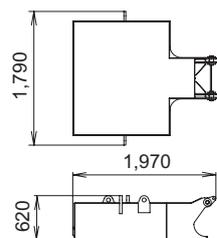
Counterweight (R) (3) (5) (Option)
 Weight: 5,750 kg



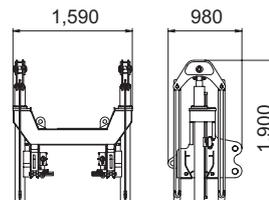
Counterweight No.3
 Weight: 8,250 kg



Carbody Weight
 Weight: 7,200 kg



Self removal unit (Option)
 Weight: 870 kg



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

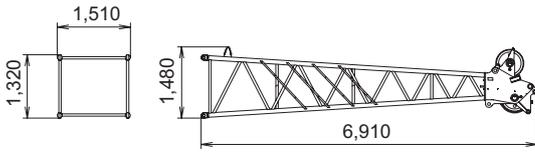
Excavator

Bull Dozer

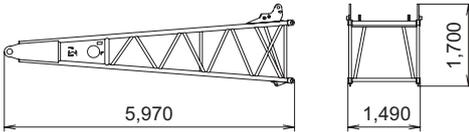
Vibro Roller
Baby Roller

Motor Grader

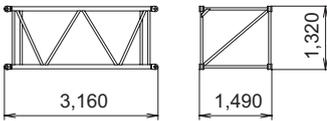
Boom Tip
Weight: 1,220 kg



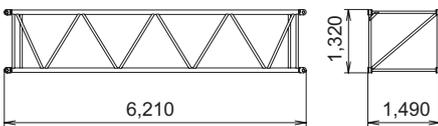
Boom Base
Weight: 1,120 kg



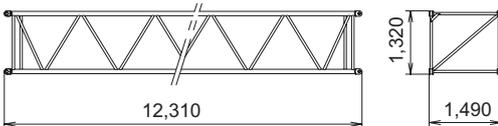
3.0 m
Boom Insert
Weight: 300 kg



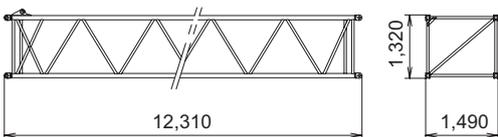
6.1 m
Boom Insert
Weight: 510 kg



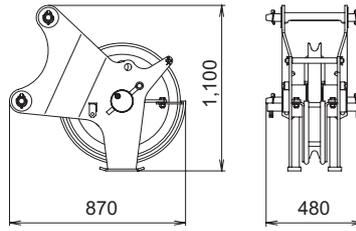
12.2 m
Insert Boom
Weight: 950 kg



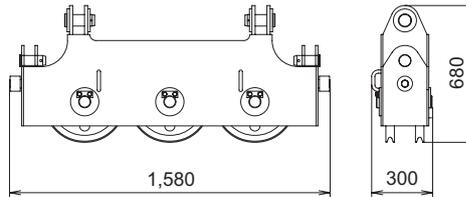
12.2 m
Boom Insert (with lug)
Weight: 1,220 kg



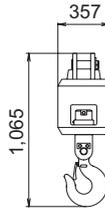
Auxiliary Sheave
Weight: 195 kg



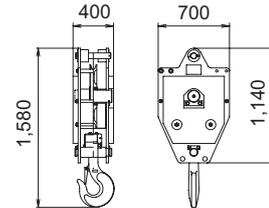
Upper Spreader
Weight: 280 kg



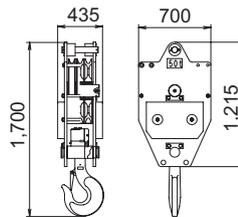
Ball Hook
Weight: 300 kg



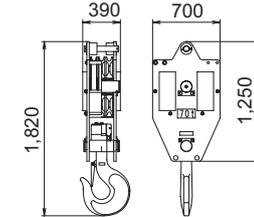
35 t Hook
Weight: 700 kg



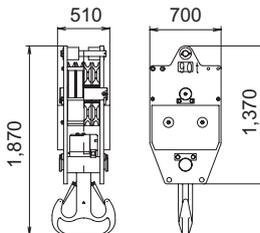
50 t Hook
Weight: 850 kg



70 t Hook
Weight: 900 kg



90 t Hook
Weight: 1,300 kg



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Transportation Plan

Name	Dimension	Weight (kg)
Base Machine · Boom base · Gantry · Crawler · Wire rope (Front / rear / boom hoist)		41,360
Base Machine · Gantry · Crawler · Wire rope (Front / rear / boom hoist)		39,300
Base Machine · Boom base · Gantry · Wire rope (Front / rear / boom hoist) · Without crawler · Without side steps		27,000
Base Machine · Gantry · Wire rope (Front / rear / boom hoist) · Without crawler · Without side steps		24,940
Crawler		7,180

*1 With the side step on cabin side : 3,170
 With the side steps on the both sides : 3,340

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Crawler Crane 135t CKS1350

Manual PDF

**Crawler Crane
135t CKS1350
(KOBELCO)**



Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

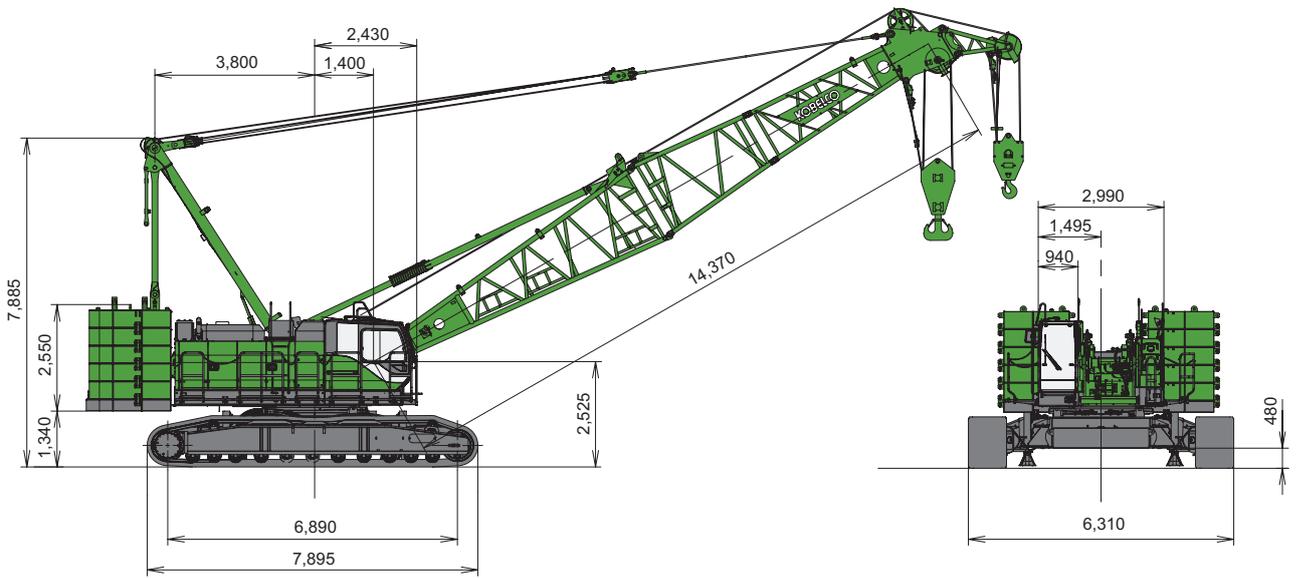
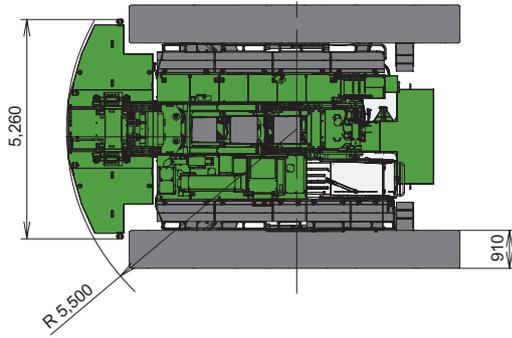
Bull Dozer

**Vibro Roller
Baby Roller**

Motor Grader

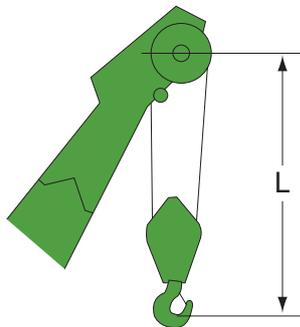
General Dimensions

(Unit: mm)

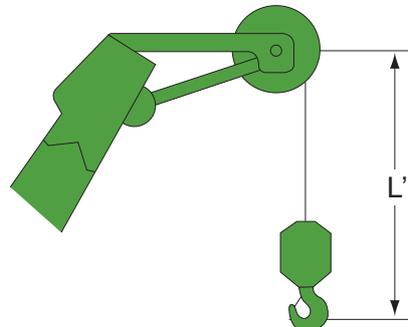


This catalog may contain photographs of machines with specifications, attachments and optional equipment.

Limit of Hook Lifting



Hook	L
135 t hook	4.7 m
70 t hook	4.5 m
35 t hook	4.3 m



Hook	L'
35 t hook	3.7 m
Ball hook	3.4 m

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

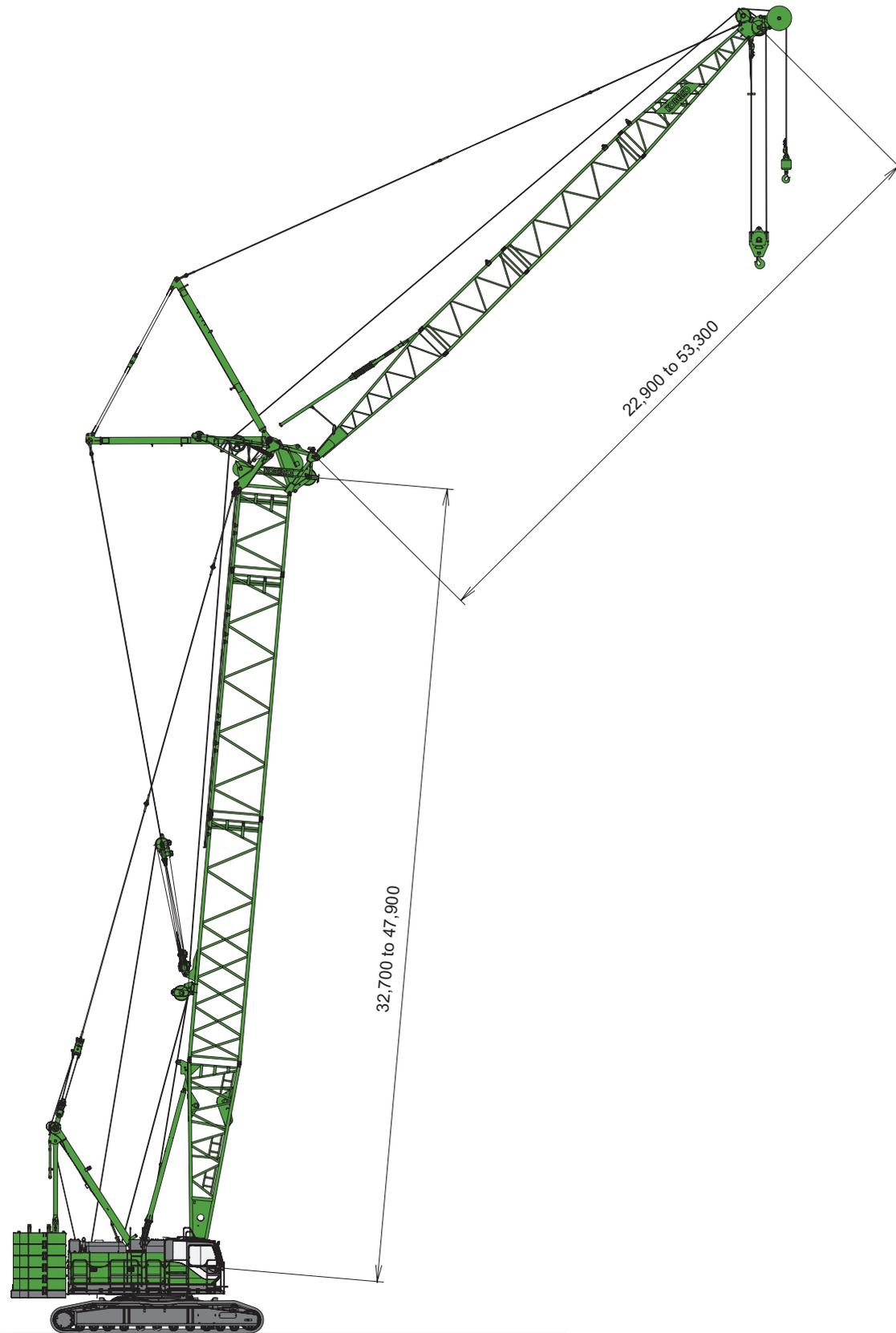
- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Luffing Jib

(Unit: mm)



This catalog may contain photographs of machines with specifications, attachments and optional equipment.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Specifications



Power Plant

Model: HINO P11C-VH
 Type: 4 cycle, water-cooled, vertical in-line 6, direct injection, turbo-charger, intercooler
 Displacement: 10,520 liters
 Rated power: 271 kW/1,850 min⁻¹
 Max. Torque: 1,470 N·m/1,400 min⁻¹
 Cooling System: Water-cooled
 Starter: 24V-6kW
 Radiator: Corrugated type core, thermostatically controlled
 Air cleaner: Dry type with replaceable paper element
 Throttle: Twist grip type hand throttle, electrically actuated
 Fuel filter: Replaceable paper element
 Batteries: Two 12 V x 136 Ah/5HR capacity batteries, series connected
 Fuel tank capacity: 400 liters



Hydraulic System

Main pumps: 4 variable displacement piston pumps
 Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. Controls respond instantly to the touch, delivering smooth function operation.
 Cooling: Oil-to-air heat exchanger (plate-fin type)
 Filtration: Full-flow and bypass type with replaceable element
 Max. relief valve pressure:
 Load hoist, boom hoist and propel system: 31.9 MPa
 Swing system: 27.5 MPa
 Control system: 5.4 MPa
 Hydraulic Tank Capacity: 535 liters



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.
 Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.
 Drum Lock: External ratchet for locking drum
 Drum: Single drum, grooved for 20 mm dia. wire rope
 Line Speed: Single line on first drum layer
 Hoisting/Lowering: 48 to 2 m/min
 Boom hoisting/lowering: 20 mm x 190 m
 Boom guy line: 30 mm
 Boom backstops: Required for all boom length



Load Hoisting System

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.
 Negative Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional)
 Drum Lock: External ratchet for locking drum

Drums:

Front Drums:

666 mm P.C.D x 672 mm wide drum, grooved for 26 mm wire rope. Rope capacity is 275 m working length and 350 m storage length.

Rear Drum: 666 mm P.C.D x 672 mm, grooved for 26 mm wire rope. Rope capacity is 255 m working length and 350 m storage length.

Diameter of wire rope

Main winch: 26 mm x 275 m

Aux. winch: 26 mm x 255 m

Third winch: 26 mm x 240 m

Line Speed*:

Hoisting/lowering: 120 to 3 m/min

Line Pull:

Max. Line Pull*: 234 kN {23.8 tf}
 (Referential performance)

Rated Line Pull: 132 kN {13.5 tf}

*Single line on first drum layer



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducer, the swing system provides 360° rotation.

Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle: Single-row ball bearing with an integral internally cut swing gear.

Swing lock: Manually, four position lock for transportation

Swing Speed: 2.1 min⁻¹



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine will with low noise level.

Counterweight: 55.0 ton



Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a headrest and armrests, and intermittent wiper and window washer (skylight and front window).

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, footrest, and shoe tray



Lower Structure

Steel-welded carbody with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track adjusting bearing block.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Carbodyweight: 10.8 ton

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoe (flat): 910 mm wide each crawler

Max. gradeability: 30%



Weight

Including upper and lower machine, 55.0 ton counterweight and 10.8 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Weight: 136 ton

Ground pressure: 106 kPa



Attachment

Boom & Jib:

Welded lattice construction using tubular, high-tensile steel chords with pin connection between sections.

Boom and Jib length

	Min. Length (Min. combination)	Max. Length (Max. combination)
Crane Boom	15.2 m	76.2 m
Fixed Jib	24.4 m + 12.2 m	61.0 m + 30.5 m

Main Specifications (Model: CKS1350)

Crane Boom	
Max. Lifting Capacity	135 t x 4.5 m
Max. Length	76.2 m
Fixed Jib	
Max. Lifting Capacity	26.8 t x 16.0 m
Max. Combination	61.0 m + 30.5 m
Long Boom	
Max. Lifting Capacity	44.3 t/10.6 m
Max. Length	82.3 m
Luffing Boom	
Max. Lifting Capacity	80 t/ 8.0 m
Max. Length	47.9 m
Luffing Jib	
Max. Jib Length	53.3 m
Max. Combination	44.8 m + 53.3 m, 47.9 m + 32.0 m
Main & Aux. Winch	
Max. Line Speed (1st layer)	120 m/min
Rated Line Pull (Single line)	132 kN {13.5 tf}
Wire Rope Diameter	26 mm
Wire Rope Length	275m (Main), 255 m (Aux.)
Brake Type (free fall)	Wet-type multiple disc brake (Optional)
Working Speed	
Swing Speed	2.1 min ⁻¹ {rpm}
Travel Speed	1.3/0.9 km/h

Power Plant	
Model	HINO P11C-VH
Engine Output	271 kW/1850 min ⁻¹
Fuel Tank	400 liters
Hydraulic System	
Main Pumps	4 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm ² }
Hydraulic Tank Capacity	535 liters
Self-Removal Device	
	counterweight/crawler self-removal device
Weight	
Operating Weight	136 t *1
Ground Pressure	106 kPa
Counterweight	55,000 kg
Transport Weight	32,430 kg *2

Units are SI units. { } indicates conventional units.

Line speeds in table are for light loads. Line speed varies with load.

*1 Including upper and lower machine, 55.0 ton counterweight, 10.8 ton carbody weight, basic boom, hook, and other accessories.

*2 Base Machine with gantry, wire ropes (front/rear/boom hoist)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Boom And Jib Arrangements

Crane Boom Arrangements

Boom length m (ft)	Boom arrangement
15.2 (50)	
18.3 (60)	※
21.3 (70)	※
24.4 (80)	※
27.4 (90)	※
30.5 (100)	※
33.5 (110)	※
36.6 (120)	※
39.5 (130)	※
42.7 (140)	※
45.7 (150)	※
48.8 (160)	※
51.8 (170)	※

Boom length m (ft)	Boom arrangement
54.9 (180)	※
57.9 (190)	※
61.0 (200)	※
64.0 (210)	※
67.1 (220)	※
70.1 (230)	※
73.2 (240)	※
76.2 (250)	※

Symbol	Boom Length	Remarks
	7.6 m	Boom Base
	4.6 m	Boom Top
	3.0 m	Tapered Boom
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	9.1 m	Insert Boom

↗ mark shows the guy line installing position when the fixed jib is used.

※ Indicates the most flexible combination of insert booms, which can be modified to form all shorter boom arrangements.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

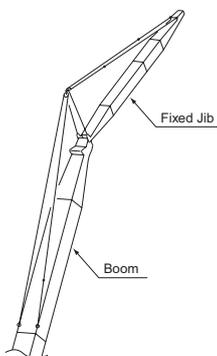
Motor Grader

Long Boom Arrangements

Boom length m (ft)	Boom arrangement
51.8 (170)	
54.9 (180)	
57.9 (190)	
61.0 (200)	
64.0 (210)	
67.1 (220)	
70.1 (230)	
73.2 (240)	
76.2 (250)	
79.2 (260)	
82.3 (270)	

Symbol	Long Boom Length	Remarks
	7.6 m	Boom Base
	6.4 m	Luffing Jib Top
	3.0 m	Tapered Boom
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	9.1 m	Insert Boom
	9.1 m	Special Insert Boom for Luffing
	4.3 m	Relay Jib
	3.0 m	Luffing Insert Jib
	6.1 m	Luffing Insert Jib
	9.1 m	Luffing Insert Jib

Fixed Jib Arrangements



Crane boom length	Jib length m (ft)	Jib arrangement
24.4 m ~ 61.0 m	12.2 (40)	
	18.3 (60)	
	24.4 (80)	
	30.5 (100)	

Symbol	Jib Length	Remarks
	4.6 m	Jib Base
	4.6 m	Jib Top
	3.0 m	Insert Jib
	6.1 m	Insert Jib

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Boom And Jib Arrangements

Luffing Boom Arrangements for Luffing

Boom length m (ft)	Boom arrangement
32.7 (107)	※
35.7 (117)	
38.8 (127)	※
41.8 (137)	※
44.8 (147)	※

Boom length m (ft)	Boom arrangement
47.9 (157)	※

Symbol	Luffing Boom Length	Remarks
	7.6 m	Boom Base
	0.7 m	Luffing Boom Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	9.1 m	Insert Boom
	9.1 m	Special Insert Boom for Luffing

※ Indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Luffing Boom Arrangements for Crane

Boom length m (ft)	Boom arrangement
14.4 (47)	
17.4 (57)	※
20.5 (67)	※
23.5 (77)	※
	※
26.6 (87)	※
	※
29.6 (97)	※
	※
32.7 (107)	※
	※
35.7 (117)	※
	※

Boom length m (ft)	Boom arrangement
38.8 (127)	※
	※
41.8 (137)	※
	※
44.8 (147)	※
	※
47.9 (157)	※
	※

Symbol	Boom Length	Remarks
	7.6 m	Boom Base
	0.7 m	Luffing Boom Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	9.1 m	Insert Boom
	9.1 m	Special Insert Boom for Luffing

※ Indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Luffing Jib Arrangements

Jib length m (ft)	Jib arrangement
22.9 (75)	
25.9 (85)	※
29.0 (95)	※
32.0 (105)	※
35.1 (115)	※
38.1 (125)	※
41.1 (135)	※

Jib length m (ft)	Jib arrangement
44.2 (145)	※
47.2 (155)	※
50.3 (165)	※
53.3 (175)	※

Symbol	Boom Length	Remarks
	6.1 m	Luffing Jib Base
	6.4 m	Luffing Jib Top
	4.3 m	Relay Jib
	3.0 m	Luffing Insert Jib
	6.1 m	Luffing Insert Jib
	9.1 m	Luffing Insert Jib

※ Indicates the most flexible combination of insert luffing jibs, which can be modified to form all shorter luffing jib arrangements.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

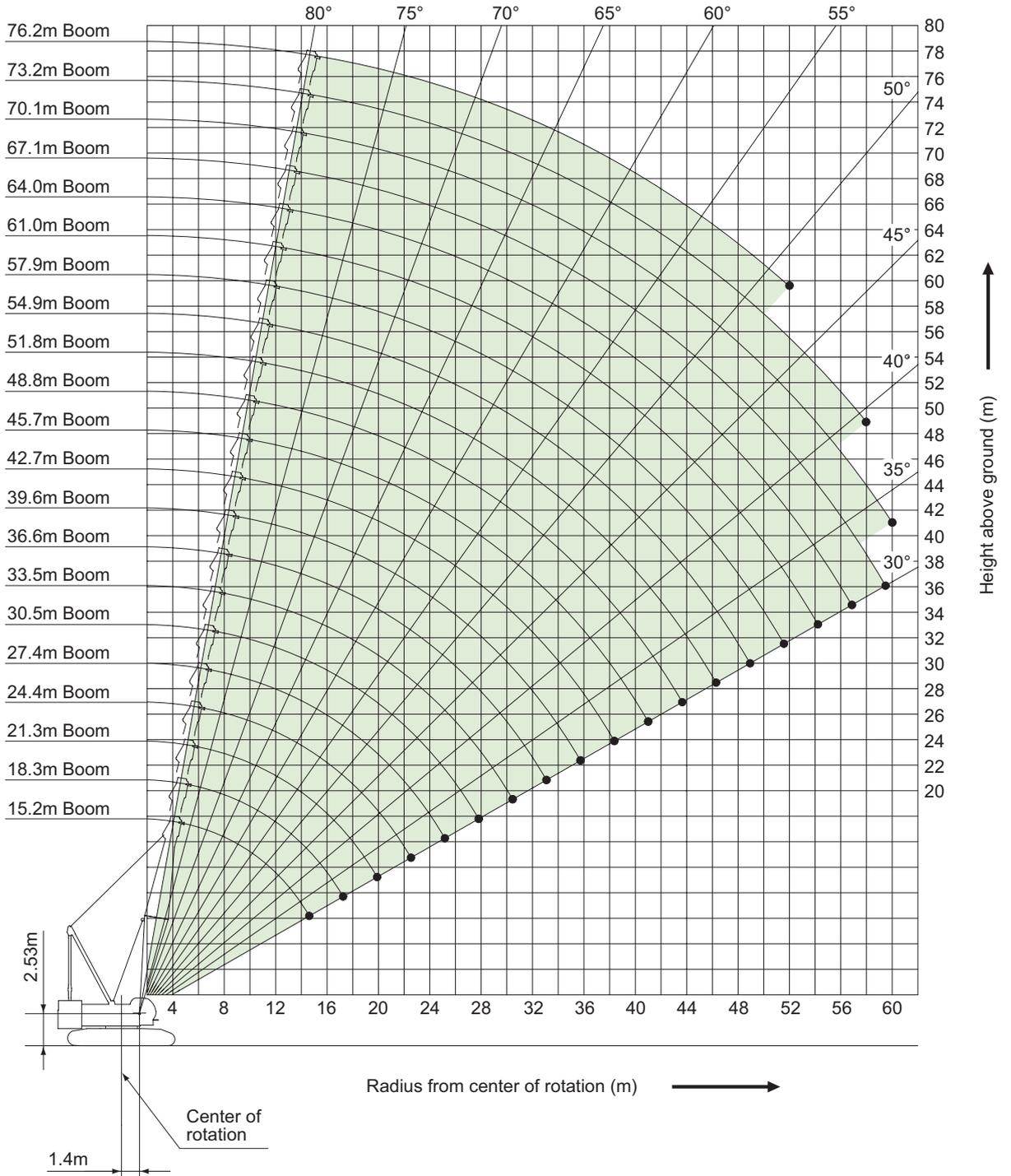
Bull Dozer

Vibro Roller
Baby Roller

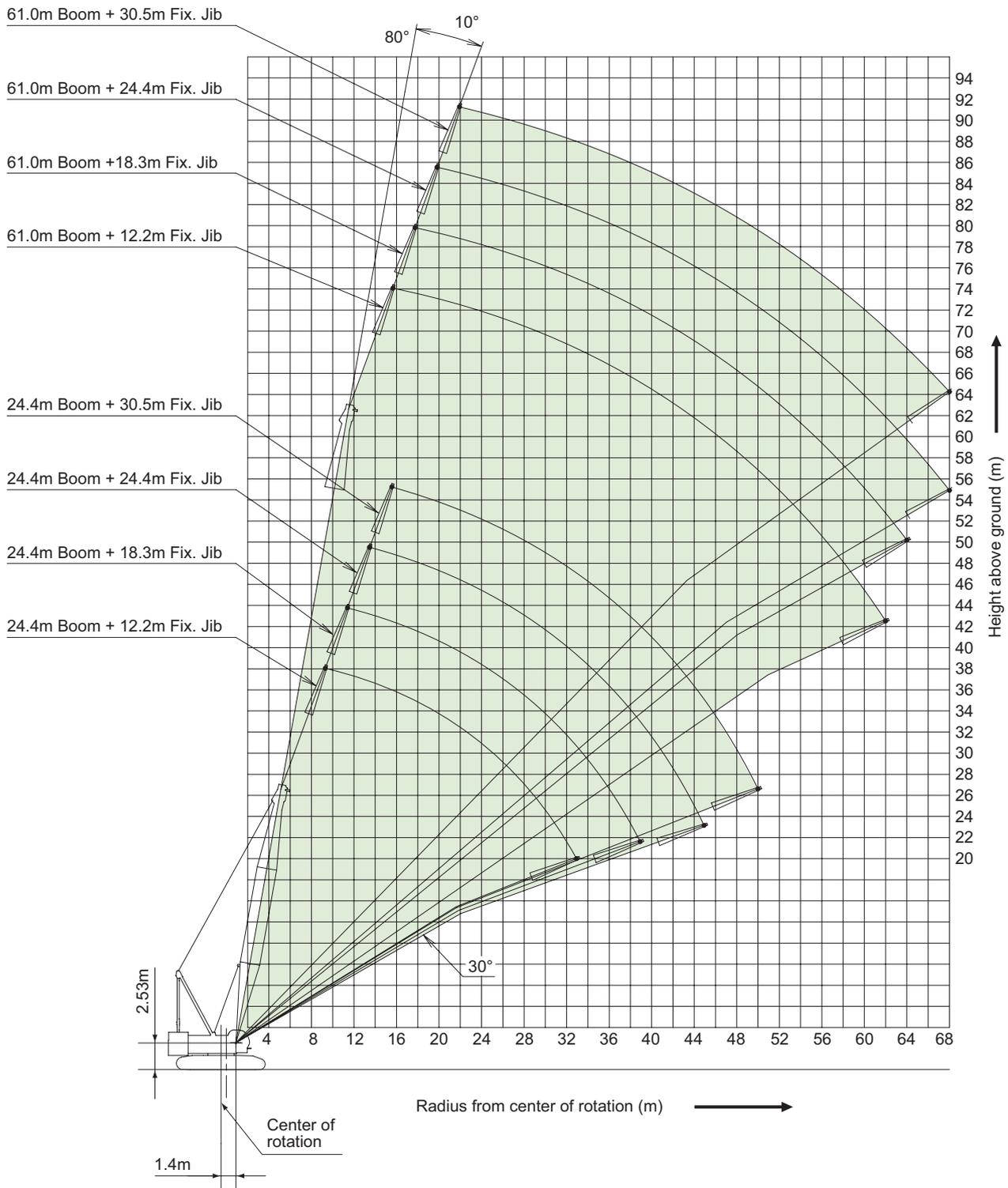
Motor Grader

Working Ranges

Crane Boom



Fixed Jib 10°



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

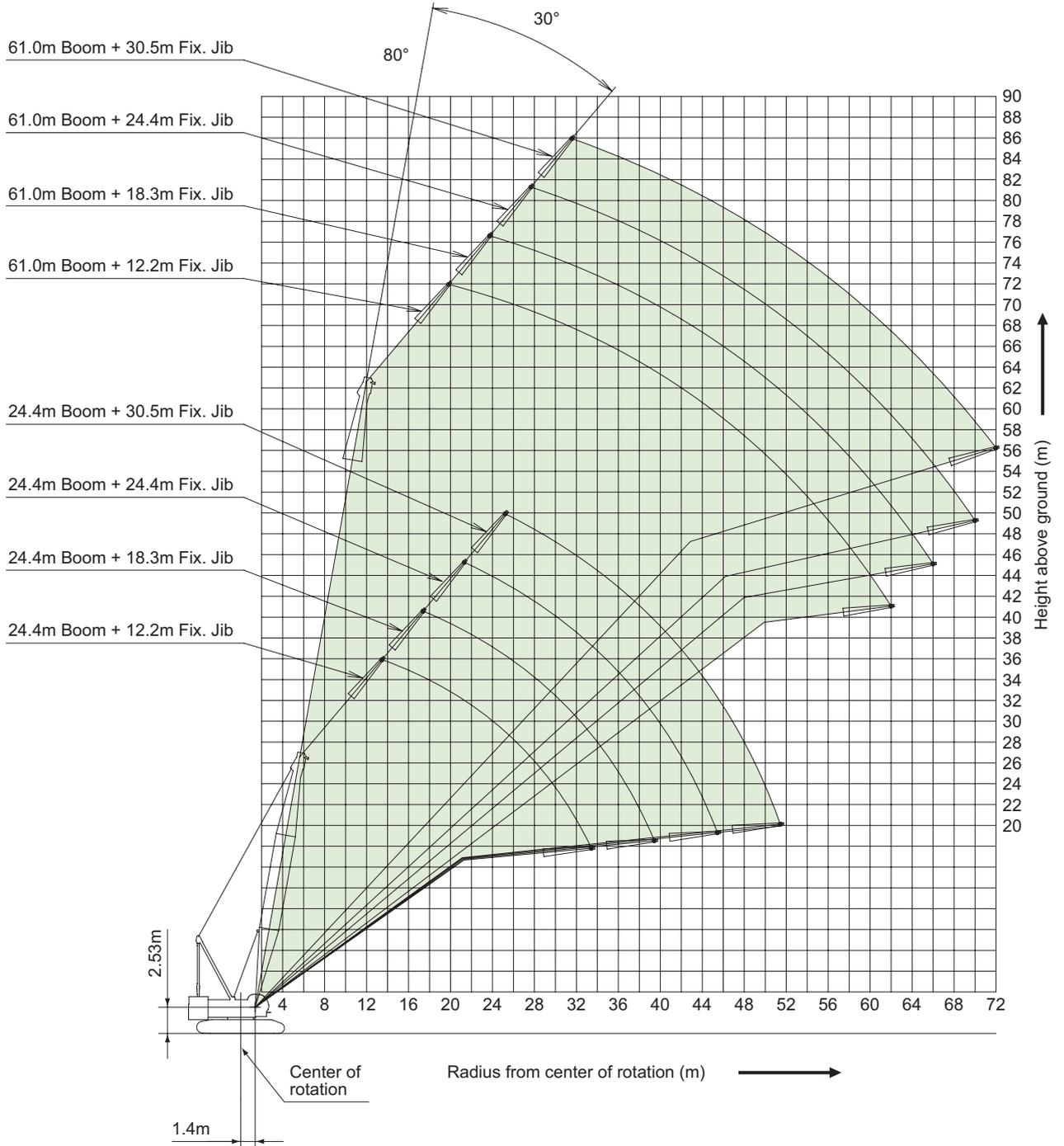
- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

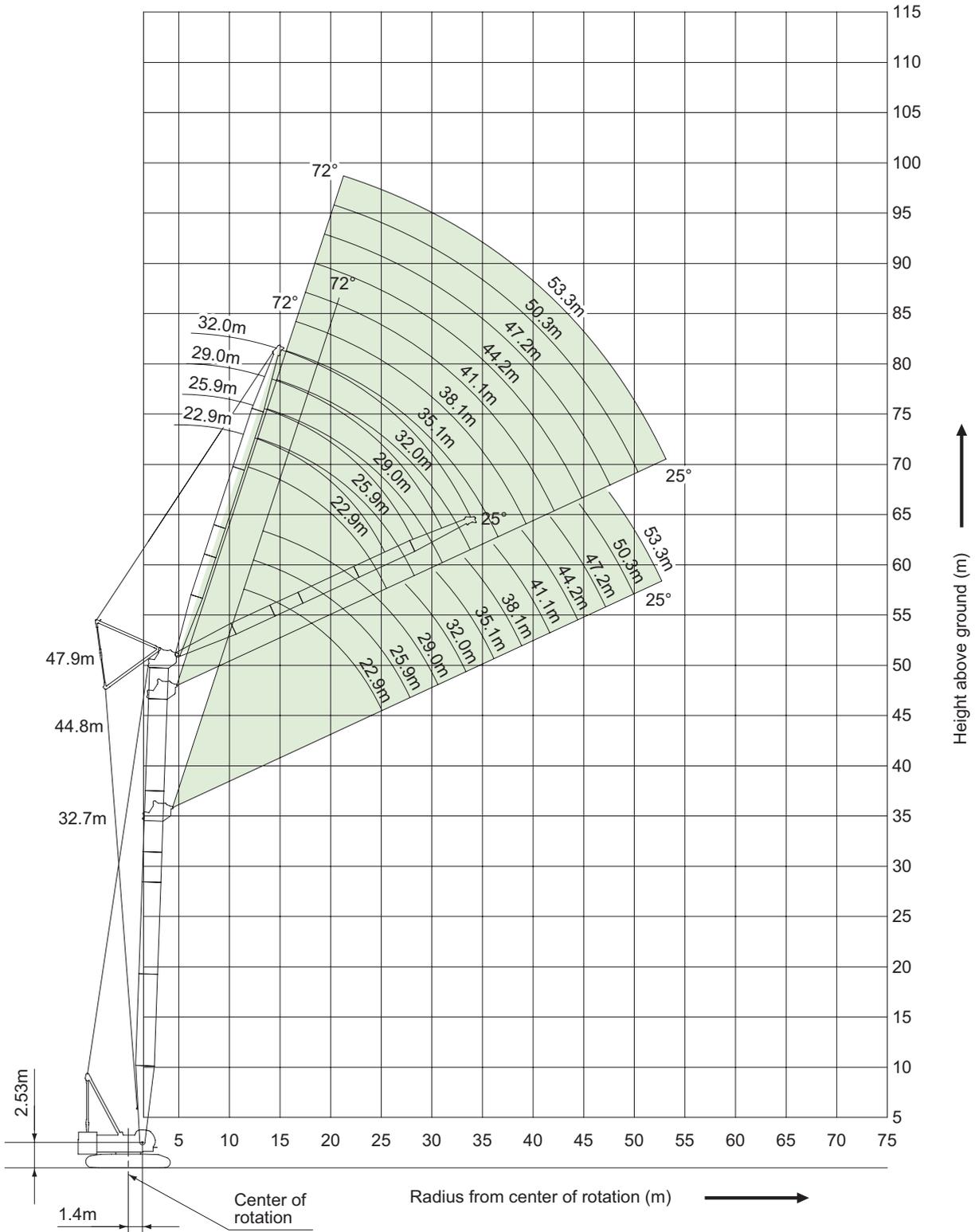
Working Ranges

Fixed Jib 30°



- Crawler Crane**
- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2
- Rough Terrain Crane**
- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL
- 60t GR-600EX
- 80t GR-800EX
- All Terrain Crane**
- 160t ATF160G-5
- 200t LTM1200-5.1
- 220t ATF220G-5
- Aerial Platform**
- Boom Lift
- Scissors Lift
- Others**
- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Luffing Jib
Boom Angle: 88°



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

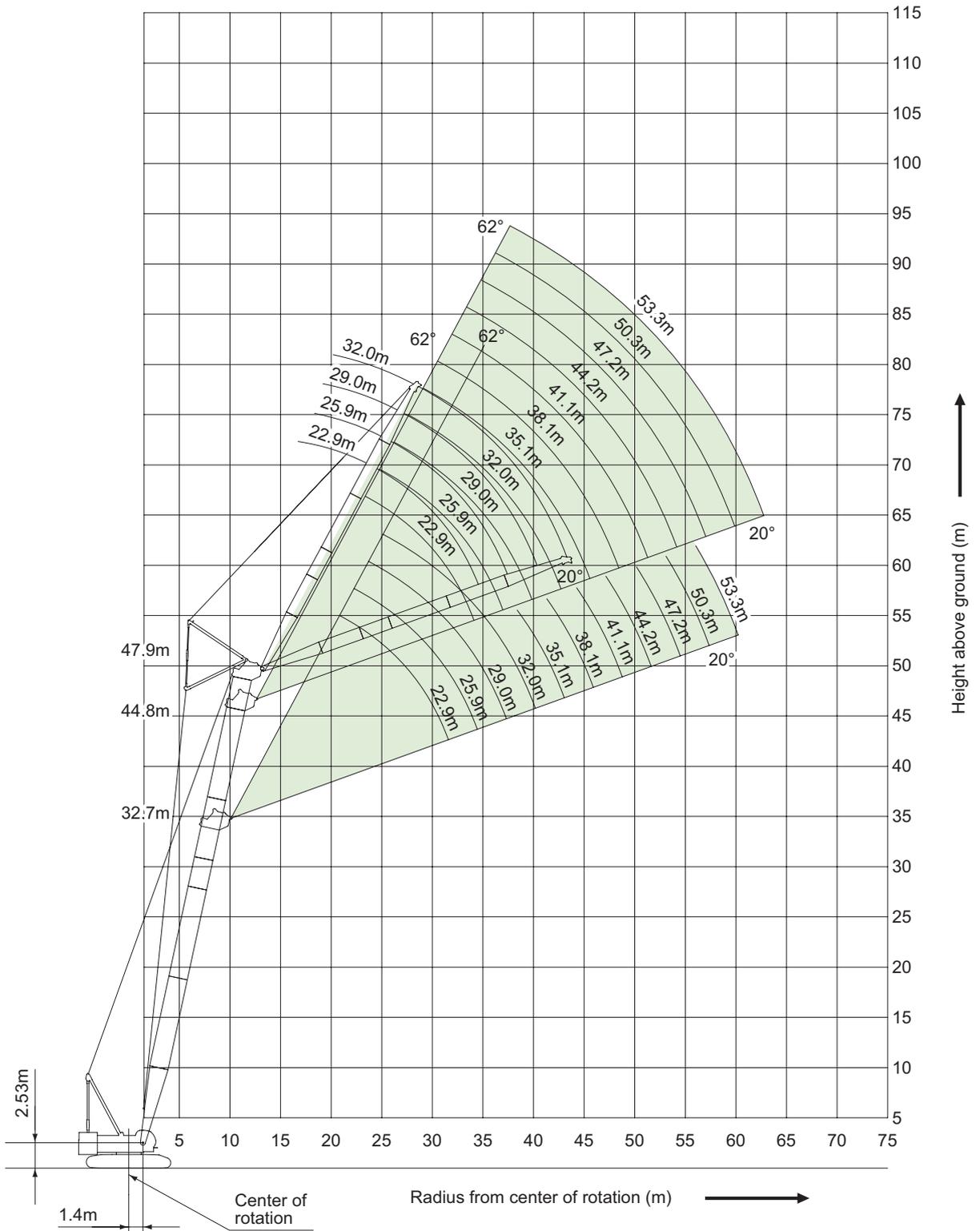
- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

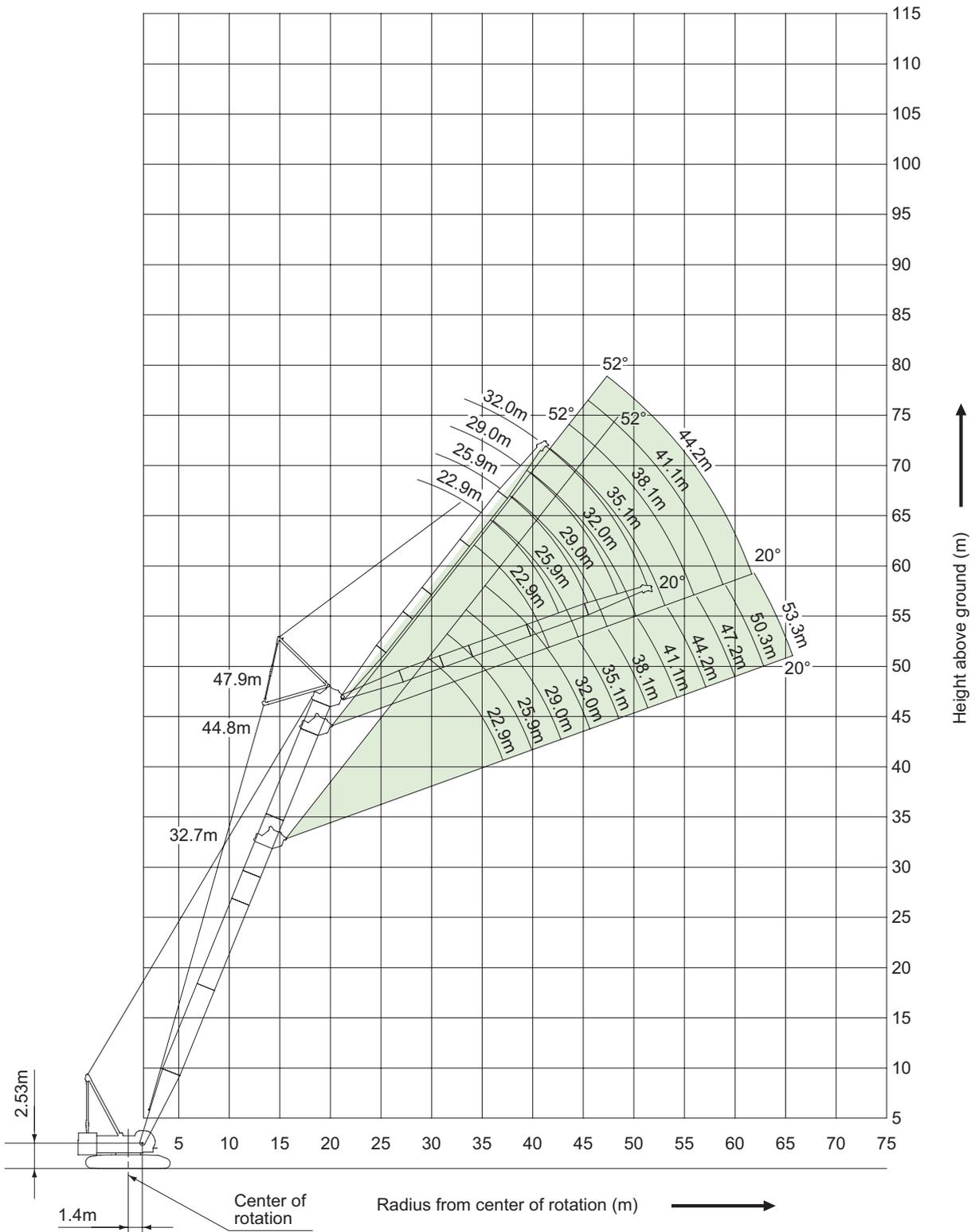
Working Ranges

Luffing Jib
Boom Angle: 78°



- Crawler Crane**
- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2
- Rough Terrain Crane**
- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX
- All Terrain Crane**
- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5
- Aerial Platform**
- Boom Lift
- Scissors Lift
- Others**
- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Luffing Jib
Boom Angle: 68°



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Supplemental Data

- Ratings according to EN13000.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of hook block (s), slings and all other load handling accessories from main boom ratings shown.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment.
The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.

· Ratings are for operation on a firm and level surface, up to 1 % gradient.

· At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.

· Boom inserts and guy lines must be arranged as shown in the "operator's manual".

· Boom hoist reeving is 12 part line.

· Gantry must be in raised position for all conditions.

· Boom backstops are required for all boom lengths.

· The boom should be erected over the front of the crawlers, not laterally.

· Ratings inside of boxes are limited by strength of materials.

· The minimum rated load is 2.0 (ton).

· When erecting or lowering the boom length of 73.2 m (240 ft) or over, the blocks for erection must be placed under the front of the crawlers.

(Crane boom/long boom/luffing boom lifting)

· The total load that can be lifted is the value for weight of main hook block, slings, and all other load handling accessories deducted from crane boom/long boom/luffing boom ratings shown.

(Fixed jib lifting)

· The total load that can be lifted is the value for weight of jib hook block, slings, and all other load handling accessories deducted from fixed jib ratings shown.

· The availability of fixed jib mounting

- On crane boom : Range 24.4 m to 61.0 m.

· Use of single part of line is not allowed on 12.2 m jib with 10 degrees offset angle on any boom length.

< Reference Information >

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	132	265	397	530	662
Maximum Loads (t)	13.5	27.0	40.5	54.0	67.5

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	794	927	1,059	1,192	1,324
Maximum Loads (t)	81.0	94.5	108.0	121.5	135.0

Auxiliary hoist loads

No. of Parts of Line	1	2
Maximum Loads (kN)	132	265
Maximum Loads (t)	13.5	27.0

Weight of hook block				
Hook Block	135 t	70 t	35 t	Ball Hook
Weight (t)	1.7	1.2	0.9	0.45

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Crane Boom Lifting Capacities

Counterweight: 55.0 t
Carbody Weight: 10.8 t

Unit: metric ton

Working radius (m) \ Boom length (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	Working radius (m) \ Boom length (m)
4.5	4.5m/135.0													4.5
5.0	131.1	5.1m/128.4	5.6m/117.2											5.0
6.0	110.4	110.1	109.6	6.1m/107.8	6.7m/95.1									6.0
7.0	95.1	94.8	93.3	91.1	89.3	7.2m/84.2	7.7m/75.3							7.0
8.0	79.5	79.9	79.1	77.4	75.9	74.6	72.4	8.2m/67.8	8.8m/61.7					8.0
9.0	67.7	68.8	68.5	67.2	66.0	64.9	62.5	61.5	60.0	9.3m/56.3	9.8m/51.8			9.0
10.0	58.4	59.0	59.0	58.8	58.3	57.4	56.5	55.0	53.6	52.2	50.9	10.4m/47.8	10.9m/44.2	10.0
12.0	44.3	45.7	45.6	45.4	45.2	45.2	45.1	44.9	44.1	43.0	42.0	41.0	40.0	12.0
14.0	33.5	37.1	37.0	36.8	36.6	36.5	36.5	36.3	36.2	36.1	35.6	34.7	33.9	14.0
16.0	14.8m/29.3	30.0	31.0	30.8	30.6	30.5	30.4	30.2	30.1	30.0	29.9	29.8	29.3	16.0
18.0		17.5m/24.8	26.6	26.4	26.2	26.1	26.0	25.8	25.7	25.6	25.4	25.3	25.2	18.0
20.0			21.7	23.0	22.8	22.7	22.6	22.4	22.3	22.2	22.0	21.9	21.7	20.0
22.0			20.1m/21.3	19.9	20.1	20.0	19.9	19.7	19.6	19.5	19.3	19.2	19.0	22.0
24.0				22.8m/18.5	18.0	17.9	17.7	17.5	17.4	17.3	17.1	17.0	16.8	24.0
26.0					25.4m/16.0	16.1	16.0	15.7	15.6	15.5	15.3	15.2	15.0	26.0
28.0						14.2	14.5	14.2	14.1	13.9	13.8	13.6	13.5	28.0
30.0						28.1m/14.1	13.2	12.9	12.8	12.7	12.5	12.3	12.2	30.0
32.0							30.7m/12.5	11.8	11.7	11.5	11.4	11.2	11.1	32.0
34.0								33.3m/10.9	10.8	10.6	10.4	10.3	10.1	34.0
36.0									9.7	9.8	9.6	9.4	9.2	36.0
38.0										8.9	8.8	8.7	8.5	38.0
40.0										38.6m/8.6	8.1	8.0	7.8	40.0
42.0											41.2m/7.5	7.4	7.2	42.0
44.0												43.9m/6.5	6.7	44.0
46.0													5.9	46.0
48.0													46.5m/5.7	48.0
Reeves	10	10	9	8	8	7	6	6	5	5	4	4	4	Reeves

Working radius (m) \ Boom length (m)	54.9	57.9	61.0	64.0	67.1	70.1	73.2	76.2	Working radius (m) \ Boom length (m)
10.0	11.4m/40.1	11.9m/38.4							10.0
12.0	39.1	38.2	12.5m/35.8	13.0m/33.4	13.5m/26.7				12.0
14.0	33.2	32.5	31.7	30.9	26.7	14.1m/26.7	14.6m/24.4	15.1m/20.4	14.0
16.0	28.7	28.1	27.4	26.7	26.3	25.7	22.7	19.4	16.0
18.0	25.1	24.6	24.0	23.4	23.0	22.5	20.6	17.5	18.0
20.0	21.6	21.5	21.2	20.7	20.4	19.9	18.8	15.8	20.0
22.0	18.9	18.8	18.6	18.4	18.1	17.7	17.1	14.3	22.0
24.0	16.7	16.6	16.4	16.2	16.2	15.8	15.4	13.0	24.0
26.0	14.9	14.7	14.6	14.4	14.4	14.2	13.8	11.8	26.0
28.0	13.4	13.2	13.1	12.9	12.8	12.7	12.4	10.7	28.0
30.0	12.1	11.9	11.7	11.6	11.5	11.4	11.2	9.7	30.0
32.0	10.9	10.8	10.6	10.4	10.4	10.2	10.0	8.8	32.0
34.0	10.0	9.8	9.6	9.4	9.4	9.2	9.1	8.0	34.0
36.0	9.1	8.9	8.8	8.6	8.5	8.4	8.2	7.2	36.0
38.0	8.4	8.2	8.0	7.8	7.8	7.6	7.4	6.5	38.0
40.0	7.7	7.5	7.3	7.1	7.1	6.9	6.7	5.8	40.0
42.0	7.1	6.9	6.7	6.5	6.5	6.3	6.1	5.2	42.0
44.0	6.5	6.4	6.2	6.0	5.9	5.7	5.5	4.6	44.0
46.0	6.0	5.9	5.7	5.4	5.3	5.2	4.9	4.0	46.0
48.0	5.3	5.4	5.2	4.9	4.9	4.7	4.4	3.5	48.0
50.0	49.2m/4.8	4.7	4.7	4.5	4.4	4.2	4.0	2.9	50.0
52.0		51.8m/4.1	4.2	4.1	4.0	3.8	3.6	2.4	52.0
54.0			3.6	3.6	3.5	3.4	3.2		54.0
56.0			54.4m/3.5	3.0	3.1	3.0	2.8		56.0
58.0				57.1m/2.8	2.6	2.5	2.4		58.0
60.0					59.7m/2.2	2.1			60.0
Reeves	3	3	3	3	2	2	2	2	Reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

135t
CKS1350

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 10°)

Counterweight: 55.0 t
Carbody Weight: 10.8 t
Unit: metric ton

Boom length (m)		24.4				27.4				30.5				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	9.0	9.9m/26.8													9.0
	10.0	26.8				10.4m/26.8				10.9m/26.8					10.0
	12.0	26.7	19.2			26.8	12.5m/19.2			26.8	13.0m/19.2				12.0
	14.0	25.8	18.9	14.3m/9.9		26.1	19.0	14.9m/9.9		26.5	19.1	15.4m/9.8			14.0
	16.0	24.9	18.3	9.7	16.4m/5.9	25.3	18.5	9.8	16.9m/5.9	25.7	18.7	9.8	17.5m/5.9		16.0
	18.0	24.1	17.7	9.5	5.8	24.6	18.0	9.6	5.8	24.9	18.2	9.6	5.9		18.0
	20.0	22.9	16.8	9.2	5.6	23.3	17.4	9.4	5.7	23.2	17.7	9.4	5.7		20.0
	22.0	20.8	15.2	8.8	5.3	20.6	16.1	9.0	5.4	20.4	17.0	9.2	5.6		22.0
	24.0	18.6	13.9	8.4	5.0	18.4	14.8	8.6	5.2	18.2	15.6	8.8	5.3		24.0
	26.0	16.8	12.8	8.0	4.8	16.5	13.6	8.2	4.9	16.4	14.4	8.4	5.0		26.0
	28.0	15.2	11.9	7.7	4.5	15.0	12.6	7.9	4.7	14.9	13.3	8.1	4.8		28.0
	30.0	13.9	11.1	7.4	4.3	13.7	11.8	7.6	4.5	13.5	12.4	7.8	4.6		30.0
	32.0	12.8	10.4	7.2	4.2	12.6	11.0	7.4	4.3	12.4	11.7	7.6	4.4		32.0
	34.0	11.2	9.7	6.9	4.0	11.6	10.4	7.1	4.1	11.4	11.0	7.3	4.2		34.0
	36.0		9.2	6.7	3.8	10.4	9.8	6.9	3.9	10.6	10.4	7.1	4.1		36.0
	38.0		8.7	6.5	3.7		9.3	6.7	3.8	9.7	9.8	6.9	3.9		38.0
	40.0		8.3	6.3	3.5		8.8	6.5	3.7	8.4	9.3	6.7	3.8		40.0
	42.0			6.2	3.4		8.4	6.4	3.5		8.7	6.5	3.7		42.0
44.0			6.1	3.3			6.2	3.4		7.8	6.4	3.5		44.0	
46.0			6.0	3.2			6.1	3.3			6.2	3.4		46.0	
48.0				3.1			6.0	3.2			6.1	3.3		48.0	
50.0				3.1				3.1			6.0	3.2		50.0	
52.0								3.1				3.2		52.0	
54.0								3.0				3.1		54.0	
56.0												3.0		56.0	
Reeves		2	2	1	1	2	2	1	1	2	2	1	1	Reeves	

Boom length (m)		33.5				36.6				39.6				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	10.0	11.5m/26.8													10.0
	12.0	26.8	13.5m/19.2			26.8				12.5m/26.8					12.0
	14.0	26.8	19.1	15.9m/9.9		26.8	14.1m/19.2			26.8	14.6m/19.2				14.0
	16.0	26.0	18.8	9.9		26.3	18.9	16.4m/9.9		26.5	19.0	17.0m/9.9			16.0
	18.0	25.3	18.4	9.7	5.9	25.6	18.6	9.7	18.5m/5.9	25.8	18.7	9.8	19.1m/5.9		18.0
	20.0	23.0	17.9	9.5	5.7	22.8	18.1	9.6	5.8	22.7	18.3	9.6	5.8		20.0
	22.0	20.3	17.4	9.3	5.6	20.1	17.6	9.4	5.7	20.0	17.8	9.5	5.7		22.0
	24.0	18.1	16.4	9.0	5.4	17.9	17.2	9.1	5.5	17.7	17.4	9.3	5.6		24.0
	26.0	16.2	15.1	8.6	5.1	16.0	15.9	8.8	5.3	15.9	16.1	9.0	5.4		26.0
	28.0	14.7	14.0	8.3	4.9	14.5	14.7	8.5	5.0	14.3	14.6	8.7	5.1		28.0
	30.0	13.4	13.1	8.0	4.7	13.2	13.4	8.2	4.8	13.0	13.2	8.4	4.9		30.0
	32.0	12.3	12.3	7.7	4.5	12.0	12.3	7.9	4.6	11.9	12.1	8.1	4.7		32.0
	34.0	11.3	11.5	7.5	4.3	11.1	11.3	7.7	4.4	10.9	11.1	7.8	4.6		34.0
	36.0	10.4	10.6	7.3	4.2	10.2	10.4	7.4	4.3	10.0	10.2	7.6	4.4		36.0
	38.0	9.7	9.8	7.1	4.0	9.4	9.6	7.2	4.1	9.3	9.5	7.4	4.2		38.0
	40.0	8.9	9.1	6.9	3.9	8.7	8.9	7.0	4.0	8.6	8.8	7.2	4.1		40.0
	42.0	7.8	8.5	6.7	3.8	8.1	8.3	6.9	3.9	8.0	8.1	7.0	4.0		42.0
	44.0		8.0	6.5	3.6	7.1	7.8	6.7	3.7	7.4	7.6	6.8	3.8		44.0
46.0		7.3	6.4	3.5		7.3	6.5	3.6	6.5	7.1	6.7	3.7		46.0	
48.0		6.4	6.3	3.4		6.6	6.4	3.5		6.6	6.5	3.6		48.0	
50.0			6.1	3.3		5.8	6.3	3.4		6.0	6.4	3.5		50.0	
52.0			6.0	3.2			6.2	3.3		5.4	6.0	3.4		52.0	
54.0			5.4	3.2			5.6	3.3			5.7	3.3		54.0	
56.0				3.1			5.0	3.2			5.1	3.3		56.0	
58.0				3.0				3.1			4.5	3.2		58.0	
60.0				2.9				3.1				3.1		60.0	
62.0								3.0				3.1		62.0	
64.0												3.0		64.0	
Reeves		2	2	1	1	2	2	1	1	2	2	1	1	Reeves	

Note: Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.
12.2 m jib length with offset angle 10 degrees, one part of line on hook is not allowed to use.
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 10°)

Counterweight: 55.0 t
Carbody Weight: 10.8 t
Unit: metric ton

Boom length (m)		42.7				45.7				48.8				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	12.0	13.0m/26.8				13.6m/26.8									12.0
	14.0	26.8	15.1m/19.2			26.8	15.7m/19.1			14.1m/26.8					14.0
	16.0	26.8	19.1	17.5m/9.9		26.8	19.1			26.8	16.2m/19.2				16.0
	18.0	26.0	18.8	9.8	19.6m/5.9	25.8	18.9	9.9		25.7	18.9	18.6m/9.9			18.0
	20.0	22.5	18.4	9.7	5.9	22.4	18.6	9.7	20.1m/5.9	22.2	18.7	9.8	20.6m/5.9		20.0
	22.0	19.8	18.0	9.5	5.7	19.6	18.1	9.6	5.8	19.5	18.3	9.6	5.8		22.0
	24.0	17.6	17.6	9.4	5.6	17.4	17.6	9.4	5.7	17.2	17.5	9.5	5.7		24.0
	26.0	15.7	16.0	9.1	5.5	15.5	15.8	9.3	5.5	15.4	15.7	9.3	5.6		26.0
	28.0	14.2	14.4	8.8	5.2	14.0	14.2	9.0	5.3	13.8	14.1	9.1	5.4		28.0
	30.0	12.9	13.1	8.5	5.0	12.7	12.9	8.7	5.1	12.5	12.8	8.8	5.2		30.0
	32.0	11.7	11.9	8.2	4.8	11.5	11.7	8.4	4.9	11.4	11.6	8.5	5.0		32.0
	34.0	10.7	10.9	8.0	4.7	10.5	10.7	8.1	4.7	10.4	10.6	8.3	4.8		34.0
	36.0	9.9	10.1	7.8	4.5	9.7	9.9	7.9	4.6	9.5	9.7	8.1	4.7		36.0
	38.0	9.1	9.3	7.6	4.3	8.9	9.1	7.7	4.4	8.7	8.9	7.8	4.5		38.0
	40.0	8.4	8.6	7.4	4.2	8.2	8.4	7.5	4.3	8.0	8.2	7.6	4.4		40.0
	42.0	7.8	8.0	7.2	4.1	7.6	7.8	7.3	4.2	7.4	7.6	7.4	4.2		42.0
	44.0	7.2	7.4	7.0	3.9	7.0	7.2	7.1	4.0	6.9	7.1	7.3	4.1		44.0
	46.0	6.7	6.9	6.8	3.8	6.5	6.7	7.0	3.9	6.4	6.6	6.8	4.0		46.0
	48.0	5.9	6.5	6.7	3.7	5.9	6.2	6.5	3.8	5.9	6.1	6.4	3.9		48.0
	50.0	5.2	6.0	6.3	3.6	5.3	5.8	6.1	3.7	5.3	5.7	5.9	3.8		50.0
	52.0		5.4	5.9	3.5	4.6	5.3	5.7	3.6	4.7	5.2	5.5	3.7		52.0
	54.0		4.9	5.5	3.4		4.8	5.3	3.5	4.1	4.8	5.2	3.6		54.0
	56.0		4.3	5.1	3.3		4.3	5.0	3.4	3.5	4.3	4.8	3.5		56.0
	58.0			4.6	3.3		3.7	4.5	3.3		3.8	4.5	3.4		58.0
60.0			4.1	3.2			4.1	3.3		3.3	4.0	3.3		60.0	
62.0				3.1			3.6	3.2			3.6	3.3		62.0	
64.0				3.1			3.2	3.1			3.2	3.2		64.0	
66.0				3.0				3.1			2.8	3.1		66.0	
68.0								2.9				2.9		68.0	
70.0								2.5				2.5		70.0	
72.0												2.1		72.0	
Reeves	2	2	1	1	2	2	1	1	2	2	1	1	Reeves		

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Boom length (m)		51.8				54.9				57.9				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	14.0	14.6m/26.8				15.2m/26.8				15.7m/24.0					14.0
	16.0	26.8	16.7m/19.1			26.8	17.2m/19.1			24.0	17.8m/19.1				16.0
	18.0	25.6	19.0	19.1m/9.9		25.4	19.0	19.6m/9.8		23.5	19.1				18.0
	20.0	22.1	18.8	9.8	21.2m/5.9	21.9	18.8	9.8	21.7m/5.9	21.7	18.9	20.1m/9.9			20.0
	22.0	19.3	18.4	9.6	5.8	19.1	18.6	9.7	5.9	19.0	18.7	9.7	22.2m/5.9		22.0
	24.0	17.1	17.4	9.5	5.7	16.9	17.2	9.6	5.8	16.7	17.0	9.6	5.8		24.0
	26.0	15.2	15.5	9.4	5.6	15.0	15.3	9.4	5.6	14.9	15.2	9.5	5.7		26.0
	28.0	13.7	13.9	9.2	5.5	13.5	13.8	9.3	5.5	13.3	13.6	9.3	5.6		28.0
	30.0	12.4	12.6	8.9	5.3	12.2	12.4	9.1	5.4	12.0	12.2	9.2	5.5		30.0
	32.0	11.2	11.5	8.7	5.1	11.0	11.3	8.8	5.2	10.8	11.1	8.9	5.3		32.0
	34.0	10.2	10.4	8.4	4.9	10.0	10.3	8.6	5.0	9.8	10.1	8.7	5.1		34.0
	36.0	9.3	9.6	8.2	4.8	9.1	9.4	8.3	4.8	9.0	9.2	8.5	4.9		36.0
	38.0	8.6	8.8	8.0	4.6	8.4	8.6	8.1	4.7	8.2	8.4	8.2	4.8		38.0
	40.0	7.9	8.1	7.8	4.5	7.7	7.9	7.9	4.5	7.5	7.7	8.0	4.6		40.0
	42.0	7.3	7.5	7.6	4.3	7.0	7.3	7.6	4.4	6.9	7.1	7.4	4.5		42.0
	44.0	6.7	6.9	7.2	4.2	6.5	6.7	7.0	4.3	6.3	6.5	6.8	4.4		44.0
	46.0	6.2	6.4	6.7	4.1	6.0	6.2	6.5	4.2	5.8	6.0	6.3	4.2		46.0
	48.0	5.7	5.9	6.2	4.0	5.5	5.7	6.0	4.0	5.3	5.5	5.8	4.1		48.0
	50.0	5.2	5.5	5.8	3.9	5.0	5.3	5.6	3.9	4.8	5.1	5.4	4.0		50.0
	52.0	4.7	5.1	5.4	3.8	4.5	4.8	5.2	3.8	4.3	4.6	5.0	3.9		52.0
	54.0	4.1	4.6	5.0	3.7	4.0	4.4	4.8	3.7	3.8	4.2	4.7	3.8		54.0
	56.0	3.6	4.2	4.7	3.6	3.5	4.0	4.5	3.7	3.4	3.8	4.3	3.7		56.0
	58.0	3.1	3.7	4.3	3.5	3.0	3.5	4.1	3.6	2.9	3.4	3.9	3.6		58.0
	60.0		3.3	3.9	3.4	2.6	3.1	3.7	3.5	2.5	3.0	3.5	3.6		60.0
62.0		2.9	3.5	3.3		2.7	3.3	3.4	2.1	2.6	3.2	3.3		62.0	
64.0		2.4	3.1	3.3		2.4	3.0	3.2		2.3	2.8	3.0		64.0	
66.0			2.8	3.1			2.6	2.9			2.5	2.7		66.0	
68.0			2.4	2.8			2.3	2.6			2.2	2.4		68.0	
70.0				2.4				2.3				2.1		70.0	
Reeves	2	2	1	1	2	2	1	1	2	2	1	1	Reeves		

Note: Ratings according to EN13000.

Ratings shown in [] are determined by the strength of the boom or other structural components.

12.2 m jib length with offset angle 10 degrees, one part of line on hook is not allowed to use.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Lifting Capacities

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 10°)

Counterweight: 55.0 t
Carbody Weight: 10.8 t
Unit: metric ton

Boom length (m)		61.0												Boom length (m)
Jib length (m)		12.2	18.3	24.4	30.5									Jib length (m)
Working radius (m)	16.0	16.2m/21.2												16.0
	18.0	20.7	18.3m/19.1											18.0
	20.0	20.3	18.9	20.7m/9.9										20.0
	22.0	18.7	18.7	9.8	22.8m/5.9									22.0
	24.0	16.6	16.7	9.6	5.8									24.0
	26.0	14.8	14.9	9.5	5.7									26.0
	28.0	13.2	13.4	9.4	5.6									28.0
	30.0	11.9	12.1	9.3	5.5									30.0
	32.0	10.7	11.0	9.1	5.3									32.0
	34.0	9.7	10.0	8.8	5.2									34.0
	36.0	8.8	9.1	8.6	5.0									36.0
	38.0	8.1	8.3	8.4	4.9									38.0
	40.0	7.4	7.6	7.9	4.7									40.0
	42.0	6.7	7.0	7.3	4.6									42.0
	44.0	6.2	6.4	6.7	4.4									44.0
	46.0	5.6	5.9	6.2	4.3									46.0
	48.0	5.1	5.3	5.7	4.2									48.0
	50.0	4.6	4.9	5.3	4.1									50.0
	52.0	4.1	4.4	4.9	4.0									52.0
	54.0	3.7	4.0	4.5	3.9									54.0
56.0	3.3	3.6	4.1	3.8									56.0	
58.0	2.8	3.2	3.7	3.7									58.0	
60.0	2.4	2.8	3.3	3.5									60.0	
62.0	2.1	2.5	3.0	3.1									62.0	
64.0		2.1	2.7	2.8									64.0	
66.0			2.3	2.5									66.0	
68.0			2.0	2.2									68.0	
	Reeves	2	2	1	1								Reeves	

Note: Ratings according to EN13000.
 Ratings shown in are determined by the strength of the boom or other structural components.
 12.2 m jib length with offset angle 10 degrees, one part of line on hook is not allowed to use.
 Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
 Please refer rated chart in operator's cabin.

Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

**Vibro Roller
Baby Roller**

Motor Grader

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 30°)

Counterweight: 55.0 t
Carbody Weight: 10.8 t
Unit: metric ton

Boom length (m)		24.4				27.4				30.5				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	12.0	13.5m/18.2													12.0
	14.0	17.8				14.1m/18.2				14.6m/18.2					14.0
	16.0	16.4	17.5m/12.4			16.9				17.3					16.0
	18.0	15.2	12.1			15.7	12.4			16.2	18.5m/12.5				18.0
	20.0	14.3	11.2	21.4m/7.4		14.7	11.5	21.9m/7.5		15.2	11.8				20.0
	22.0	13.4	10.5	7.4		13.9	10.8	7.5		14.3	11.1	22.4m/7.5			22.0
	24.0	12.7	9.8	7.2	25.3m/4.1	13.2	10.1	7.3	25.8m/4.0	13.6	10.4	7.3			24.0
	26.0	12.1	9.2	7.0	4.0	12.5	9.6	7.1	4.0	13.0	9.9	7.1	26.3m/4.1		26.0
	28.0	11.6	8.8	6.8	3.8	12.0	9.1	6.9	3.9	12.4	9.4	6.9	3.9		28.0
	30.0	11.1	8.3	6.5	3.7	11.5	8.6	6.7	3.8	11.9	8.9	6.8	3.8		30.0
	32.0	10.8	7.9	6.2	3.6	11.1	8.2	6.4	3.6	11.5	8.5	6.5	3.7		32.0
	34.0	10.5	7.6	5.9	3.5	10.8	7.9	6.1	3.5	11.1	8.2	6.2	3.6		34.0
	36.0		7.3	5.6	3.4	10.6	7.6	5.8	3.4	10.7	7.9	6.0	3.5		36.0
	38.0		7.1	5.4	3.3	9.2	7.4	5.6	3.3	9.9	7.6	5.7	3.4		38.0
	40.0		7.0	5.2	3.2		7.1	5.4	3.2	8.8	7.4	5.5	3.3		40.0
	42.0			5.0	3.1		7.0	5.2	3.2		7.2	5.3	3.2		42.0
	44.0			4.9	3.1		6.9	5.0	3.1		7.0	5.2	3.2		44.0
	46.0			4.8	3.0			4.9	3.0		6.9	5.0	3.1		46.0
	48.0				3.0			4.8	3.0			4.9	3.0		48.0
	50.0				2.9			4.7	3.0			4.8	3.0		50.0
52.0				2.9				2.9			4.7	3.0		52.0	
54.0								2.9				2.9		54.0	
56.0								2.9				2.9		56.0	
58.0												2.9		58.0	
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	1	Reeves	

Boom length (m)		33.5				36.6				39.6				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	14.0	15.1m/18.2				15.6m/18.2									14.0
	16.0	17.7				18.0				16.2m/18.3					16.0
	18.0	16.5	19.0m/12.5			16.9	19.6m/12.4			17.2					18.0
	20.0	15.6	12.1			16.0	12.3			16.3	20.1m/12.5				20.0
	22.0	14.7	11.3	23.0m/7.5		15.1	11.6	23.5m/7.5		15.5	11.8				22.0
	24.0	14.0	10.7	7.4		14.4	10.9	7.5		14.7	11.2	7.5			24.0
	26.0	13.4	10.1	7.2	26.9m/4.1	13.7	10.4	7.3	27.4m/4.1	14.1	10.6	7.3	27.9m/4.0		26.0
	28.0	12.8	9.6	7.0	4.0	13.2	9.9	7.1	4.0	13.5	10.1	7.1	4.0		28.0
	30.0	12.3	9.2	6.8	3.8	12.7	9.4	6.9	3.9	13.0	9.7	7.0	3.9		30.0
	32.0	11.9	8.8	6.7	3.7	12.2	9.0	6.8	3.8	12.2	9.3	6.8	3.8		32.0
	34.0	11.5	8.4	6.4	3.6	11.3	8.7	6.6	3.7	11.1	8.9	6.7	3.7		34.0
	36.0	10.6	8.1	6.1	3.5	10.4	8.3	6.3	3.6	10.2	8.6	6.4	3.6		36.0
	38.0	9.8	7.8	5.9	3.4	9.6	8.1	6.1	3.5	9.4	8.3	6.2	3.5		38.0
	40.0	9.1	7.6	5.7	3.3	8.9	7.8	5.8	3.4	8.7	8.0	6.0	3.4		40.0
	42.0	8.2	7.4	5.5	3.3	8.2	7.6	5.6	3.3	8.1	7.8	5.8	3.4		42.0
	44.0		7.2	5.3	3.2	7.5	7.4	5.5	3.2	7.5	7.6	5.6	3.3		44.0
	46.0		7.0	5.2	3.1		7.2	5.3	3.2	6.8	7.4	5.4	3.2		46.0
	48.0		6.9	5.0	3.1		7.0	5.2	3.1	6.0	6.9	5.3	3.2		48.0
	50.0			4.9	3.0		6.4	5.0	3.1		6.4	5.1	3.1		50.0
	52.0			4.8	3.0		5.5	4.9	3.0		5.9	5.0	3.1		52.0
54.0			4.7	2.9			4.8	3.0		5.1	4.9	3.0		54.0	
56.0				2.9			4.8	2.9			4.8	3.0		56.0	
58.0				2.9			4.7	2.9			4.8	2.9		58.0	
60.0				2.9				2.9			4.3	2.9		60.0	
62.0								2.9				2.9		62.0	
64.0								2.9				2.9		64.0	
66.0												2.9		66.0	
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	1	Reeves	

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 30°)

Counterweight: 55.0 t
Carbody Weight: 10.8 t
Unit: metric ton

Boom length (m)		42.7				45.7				48.8				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	16.0	16.7m/18.2				17.2m/18.2				17.8m/18.1				16.0	
	18.0	17.5				17.8				18.1				18.0	
	20.0	16.6	20.6m/12.5			16.9	21.2m/12.5			17.2	21.7m/12.5			20.0	
	22.0	15.8	12.0			16.1	12.2			16.4	12.4			22.0	
	24.0	15.1	11.4	24.5m/7.5		15.4	11.6	25.1m/7.5		15.7	11.8	25.6m/7.6		24.0	
	26.0	14.4	10.8	7.4		14.7	11.0	7.4		15.0	11.2	7.5		26.0	
	28.0	13.8	10.3	7.2	28.5m/4.0	14.2	10.5	7.3	29.0m/4.1	14.3	10.7	7.3	29.5m/4.0	28.0	
	30.0	13.2	9.9	7.0	3.9	13.0	10.1	7.1	4.0	12.9	10.3	7.2	4.0	30.0	
	32.0	12.0	9.5	6.9	3.8	11.9	9.7	7.0	3.9	11.7	9.9	7.0	3.9	32.0	
	34.0	11.0	9.1	6.8	3.7	10.8	9.3	6.8	3.8	10.7	9.5	6.9	3.8	34.0	
	36.0	10.1	8.8	6.6	3.6	9.9	9.0	6.7	3.7	9.8	9.2	6.7	3.7	36.0	
	38.0	9.3	8.5	6.3	3.6	9.1	8.7	6.5	3.6	9.0	8.9	6.6	3.6	38.0	
	40.0	8.6	8.2	6.1	3.5	8.4	8.4	6.3	3.5	8.3	8.6	6.4	3.5	40.0	
	42.0	8.0	8.0	5.9	3.4	7.8	8.2	6.1	3.4	7.6	8.1	6.2	3.5	42.0	
	44.0	7.4	7.7	5.7	3.3	7.2	7.6	5.9	3.4	7.1	7.5	6.0	3.4	44.0	
	46.0	6.9	7.2	5.6	3.3	6.7	7.1	5.7	3.3	6.5	6.9	5.8	3.3	46.0	
	48.0	6.2	6.7	5.4	3.2	6.2	6.6	5.5	3.2	6.0	6.4	5.6	3.3	48.0	
	50.0	5.4	6.3	5.3	3.1	5.5	6.1	5.4	3.2	5.5	6.0	5.5	3.2	50.0	
	52.0		5.9	5.1	3.1	4.8	5.7	5.3	3.1	4.9	5.6	5.4	3.2	52.0	
	54.0		5.4	5.0	3.0		5.3	5.1	3.1	4.3	5.2	5.2	3.1	54.0	
	56.0		4.7	4.9	3.0		4.8	5.0	3.0	3.7	4.8	5.1	3.1	56.0	
58.0			4.8	3.0		4.2	4.9	3.0		4.3	4.7	3.0	58.0		
60.0			4.5	2.9			4.5	3.0		3.7	4.4	3.0	60.0		
62.0			4.0	2.9			4.0	2.9		3.2	4.0	3.0	62.0		
64.0				2.9			3.5	2.9			3.6	2.9	64.0		
66.0				2.9			3.0	2.9			3.1	2.9	66.0		
68.0				2.9				2.9			2.6	2.9	68.0		
70.0								2.9				2.9	70.0		
72.0												2.5	72.0		
74.0												2.1	74.0		
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	Reeves		

Boom length (m)		51.8				54.9				57.9				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	18.0	18.3m/18.2				18.8m/18.2				19.4m/18.1				18.0	
	20.0	17.4				17.7				17.9				20.0	
	22.0	16.7	22.2m/12.5			16.9	22.7m/12.5			17.1	23.3m/12.5			22.0	
	24.0	15.9	11.9			16.2	12.1			16.4	12.3			24.0	
	26.0	15.3	11.4	26.1m/7.5		15.6	11.6	26.7m/7.5		15.5	11.7	27.2m/7.5		26.0	
	28.0	14.2	10.9	7.3		14.0	11.1	7.4		13.9	11.3	7.4		28.0	
	30.0	12.8	10.5	7.2	30.1m/4.0	12.6	10.7	7.2	30.6m/4.1	12.5	10.8	7.3	31.1m/4.0	30.0	
	32.0	11.6	10.1	7.1	3.9	11.4	10.3	7.1	4.0	11.3	10.4	7.1	4.0	32.0	
	34.0	10.6	9.7	6.9	3.8	10.4	9.9	7.0	3.9	10.2	10.1	7.0	3.9	34.0	
	36.0	9.7	9.4	6.8	3.7	9.5	9.6	6.8	3.8	9.3	9.7	6.9	3.8	36.0	
	38.0	8.9	9.1	6.7	3.7	8.7	9.2	6.7	3.7	8.5	9.1	6.8	3.7	38.0	
	40.0	8.1	8.6	6.5	3.6	8.0	8.5	6.6	3.6	7.8	8.3	6.7	3.6	40.0	
	42.0	7.5	8.0	6.3	3.5	7.3	7.8	6.4	3.5	7.1	7.7	6.5	3.6	42.0	
	44.0	6.9	7.4	6.1	3.4	6.7	7.2	6.2	3.5	6.6	7.1	6.3	3.5	44.0	
	46.0	6.4	6.8	5.9	3.4	6.2	6.6	6.0	3.4	6.0	6.5	6.1	3.4	46.0	
	48.0	5.9	6.3	5.8	3.3	5.7	6.1	5.9	3.3	5.6	6.0	6.0	3.4	48.0	
	50.0	5.5	5.9	5.6	3.2	5.3	5.7	5.7	3.3	5.1	5.6	5.8	3.3	50.0	
	52.0	4.9	5.4	5.5	3.2	4.7	5.3	5.6	3.2	4.6	5.1	5.4	3.2	52.0	
	54.0	4.4	5.1	5.3	3.1	4.2	4.9	5.2	3.2	4.1	4.7	5.0	3.2	54.0	
	56.0	3.8	4.7	5.0	3.1	3.7	4.5	4.8	3.1	3.6	4.4	4.7	3.2	56.0	
	58.0	3.3	4.2	4.6	3.1	3.2	4.1	4.5	3.1	3.2	3.9	4.3	3.1	58.0	
60.0		3.8	4.3	3.0	2.7	3.6	4.1	3.0	2.7	3.5	4.0	3.1	60.0		
62.0		3.3	3.9	3.0		3.2	3.7	3.0	2.3	3.1	3.6	3.0	62.0		
64.0		2.8	3.5	2.9		2.8	3.4	3.0		2.7	3.2	3.0	64.0		
66.0			3.1	2.9		2.3	3.0	2.9		2.3	2.9	3.0	66.0		
68.0			2.7	2.9			2.6	2.9			2.5	2.9	68.0		
70.0			2.3	2.9			2.2	2.7			2.2	2.6	70.0		
72.0				2.5				2.4				2.3	72.0		
74.0				2.2				2.1					74.0		
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	Reeves		

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 30°)

Counterweight: 55.0 t
Carbody Weight: 10.8 t
Unit: metric ton

Boom length (m)		61.0												Boom length (m)
Jib length (m)		12.2	18.3	24.4	30.5									Jib length (m)
Working radius (m)	18.0	19.9m/18.1												18.0
	20.0	18.1												20.0
	22.0	17.3	23.8m/12.4											22.0
	24.0	16.7	12.4											24.0
	26.0	15.3	11.9	27.7m/7.5										26.0
	28.0	13.8	11.4	7.5										28.0
	30.0	12.4	11.0	7.3	31.6m/4.0									30.0
	32.0	11.2	10.6	7.2	4.0									32.0
	34.0	10.1	10.2	7.1	3.9									34.0
	36.0	9.2	9.8	6.9	3.8									36.0
	38.0	8.4	9.0	6.8	3.7									38.0
	40.0	7.7	8.2	6.7	3.7									40.0
	42.0	7.0	7.6	6.6	3.6									42.0
	44.0	6.4	7.0	6.4	3.5									44.0
	46.0	5.9	6.4	6.2	3.5									46.0
	48.0	5.4	5.9	6.1	3.4									48.0
	50.0	4.9	5.4	5.8	3.3									50.0
	52.0	4.4	5.0	5.3	3.3									52.0
	54.0	3.9	4.6	4.9	3.2									54.0
	56.0	3.5	4.2	4.6	3.2									56.0
	58.0	3.1	3.8	4.2	3.1									58.0
60.0	2.7	3.4	3.8	3.1									60.0	
62.0	2.2	3.0	3.4	3.1									62.0	
64.0		2.6	3.1	3.0									64.0	
66.0		2.3	2.7	3.0									66.0	
68.0			2.4	2.7									68.0	
70.0			2.1	2.4									70.0	
72.0				2.2									72.0	
	Reeves	2	1	1	1								Reeves	

Note: Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.

Crawler Crane

- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2

Rough Terrain Crane

- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL
- 60t GR-600EX
- 80t GR-800EX

All Terrain Crane

- 160t ATF160G-5
- 200t LTM1200-5.1
- 220t ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Lifting Capacities

Long Boom Lifting Capacities

Counterweight: 55.0 t
Carbody Weight: 10.8 t

Unit: metric ton

Working radius (m)	Boom length (m)												Working radius (m)
	51.8	54.9	57.9	61.0	64.0	67.1	70.1	73.2	76.2	79.2	82.3		
10.0	10.6m/44.3	11.2m/40.5	11.7m/38.2										10.0
12.0	41.6	40.1	37.8	12.2m/35.3	12.7m/33.5	13.3m/27.0	13.8m/26.0						12.0
14.0	36.1	36.0	35.5	33.4	32.4	27.0	25.8	14.3m/22.3	14.9m/19.4	15.4m/17.0	15.9m/15.0		14.0
16.0	30.1	30.0	29.8	29.7	29.6	27.0	23.7	20.8	18.5	16.6	14.9		16.0
18.0	25.6	25.6	25.4	25.2	25.1	25.2	22.0	19.2	17.1	15.3	13.7		18.0
20.0	22.2	22.2	22.0	21.8	21.7	21.8	20.5	17.9	15.9	14.2	12.7		20.0
22.0	19.5	19.5	19.3	19.1	19.0	19.1	19.0	16.8	14.9	13.3	11.9		22.0
24.0	17.4	17.3	17.1	16.9	16.8	16.9	16.8	15.8	14.0	12.5	11.1		24.0
26.0	15.6	15.5	15.3	15.1	15.0	15.1	15.0	14.9	13.2	11.8	10.5		26.0
28.0	14.1	14.0	13.8	13.6	13.5	13.6	13.5	13.4	12.5	11.1	9.9		28.0
30.0	12.8	12.7	12.5	12.3	12.2	12.3	12.2	12.1	11.9	10.6	9.5		30.0
32.0	11.7	11.6	11.4	11.2	11.1	11.2	11.0	11.0	10.9	10.1	9.0		32.0
34.0	10.7	10.6	10.4	10.2	10.1	10.2	10.1	10.0	10.0	9.7	8.6		34.0
36.0	9.8	9.8	9.6	9.4	9.2	9.3	9.2	9.2	9.1	9.0	8.3		36.0
38.0	9.1	9.0	8.8	8.6	8.5	8.6	8.4	8.4	8.3	8.2	8.0		38.0
40.0	8.4	8.3	8.1	7.9	7.8	7.9	7.8	7.7	7.7	7.5	7.5		40.0
42.0	7.8	7.7	7.5	7.3	7.2	7.3	7.2	7.1	7.0	6.9	6.9		42.0
44.0	7.3	7.2	7.0	6.8	6.7	6.7	6.6	6.6	6.5	6.4	6.3		44.0
46.0	6.8	6.7	6.5	6.3	6.2	6.2	6.1	6.1	6.0	5.9	5.8		46.0
48.0	46.4m/6.8	6.3	6.1	5.9	5.7	5.8	5.7	5.6	5.5	5.4	5.4		48.0
50.0		49.1m/6.1	5.7	5.5	5.3	5.4	5.2	5.2	5.1	5.0	4.9		50.0
52.0			51.7m/5.4	5.1	5.0	5.0	4.9	4.8	4.7	4.6	4.5		52.0
54.0				4.8	4.6	4.6	4.5	4.4	4.4	4.2	4.1		54.0
56.0				54.4m/4.7	4.3	4.3	4.2	4.1	4.0	3.9	3.8		56.0
58.0					56.9m/4.1	4.0	3.8	3.8	3.7	3.5	3.4		58.0
60.0						59.6m/3.8	3.5	3.5	3.4	3.2	3.1		60.0
62.0							3.3	3.2	3.1	3.0	2.9		62.0
64.0								62.2m/3.2	2.9	2.9	2.7		64.0
66.0									64.9m/2.8	2.6	2.5		66.0
68.0										67.5m/2.4	2.2	2.1	68.0
70.0											2.0		70.0
72.0											70.1m/2.0		72.0
Reeves	4	3	3	3	3	2	2	2	2	2	2		Reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Luffing Boom Lifting Capacities

Counterweight: 55.0 t
Carbody Weight: 10.8 t

Unit: metric ton

Working radius (m)	Boom length (m)		14.4	17.4	20.5	23.5	26.6	29.6	32.7	35.7	38.8	41.8	44.8	47.9	Working radius (m)
	5.0	6.0													
5.0	5.4m/80.0														5.0
6.0	80.0	80.0	6.5m/80.0												6.0
7.0	80.0	80.0	80.0	80.0	7.5m/80.0										7.0
8.0	80.0	79.4	78.8	77.0	75.2	8.1m/72.7	8.6m/66.0								8.0
9.0	68.2	68.2	68.1	66.8	65.3	63.8	62.5	9.1m/60.3	9.7m/55.7						9.0
10.0	58.3	58.3	58.2	58.1	57.7	56.4	55.2	54.1	53.4	10.2m/51.3	10.7m/48.0	11.2m/44.5			10.0
12.0	44.1	44.9	44.8	44.7	44.6	44.4	44.3	43.8	43.1	42.3	41.9	41.2			12.0
14.0	32.5	36.4	36.2	36.1	36.0	35.8	35.6	35.5	35.4	35.3	35.0	34.2			14.0
16.0	14.6m/29.1	29.3	30.2	30.1	30.0	29.8	29.6	29.5	29.4	29.2	29.2	29.0			16.0
18.0		17.3m/24.5	25.8	25.7	25.6	25.3	25.2	25.1	24.9	24.8	24.7	24.5			18.0
20.0			19.9m/20.7	22.3	22.2	21.9	21.8	21.7	21.5	21.4	21.3	21.1			20.0
22.0				19.0	19.5	19.3	19.1	19.0	18.8	18.7	18.6	18.4			22.0
24.0				22.5m/17.8	17.3	17.1	16.9	16.8	16.6	16.5	16.4	16.2			24.0
26.0					25.2m/15.5	15.3	15.2	15.0	14.8	14.7	14.6	14.4			26.0
28.0						27.8m/13.4	13.7	13.5	13.3	13.2	13.1	12.9			28.0
30.0							12.2	12.2	12.0	11.9	11.8	11.6			30.0
32.0							30.5m/11.7	11.1	10.9	10.8	10.7	10.5			32.0
34.0								33.1m/10.2	10.0	9.8	9.7	9.5			34.0
36.0									35.7m/8.8	9.0	8.9	8.6			36.0
38.0										7.9	8.1	7.9			38.0
40.0										38.4m/7.7	7.2	7.2			40.0
42.0											41.0m/6.7	6.4			42.0
44.0												43.7m/5.6			44.0
Reeves	6	6	6	6	6	6	6	5	5	5	4	4	4	4	Reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Supplemental Data

- Ratings according to EN13000.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment.
- The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for operation on a firm and level surface, up to 1 % gradient.

- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom and jib inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 part line.
- Jib hoist reeving is 8 part line.
- Gantry must be in raised position for all conditions.
- Boom and jib backstops are required for all boom and jib combinations.
- Ratings inside of boxes are limited by strength of materials.
- The boom should be erected over the front of the crawlers, not laterally.
- When erecting and lowering for all boom and jib combinations, the blocks for erection must be placed under the front of the crawlers.
- The minimum rated load is 2.0 (ton).
- All ratings shown is calculated in the condition equipped with the auxiliary sheave frame.

(Luffing boom lifting with luffing jib)

- The total load that can be lifted is the value for weight of main hook block, slings, and all other load handling accessories deducted from luffing boom with luffing jib rating shown.

(Luffing jib lifting)

- The total load that can be lifted is the value for weight of jib hook block, slings, and all other load handling accessories deducted from luffing jib rated shown.

1. Availability of luffing boom and jib combinations.

Boom Length (m)	Jib Length (m)										
	22.9	25.9	29.0	32.0	35.1	38.1	41.1	44.2	47.2	50.3	53.3
32.7	○	○	○	○	○	○	○	○	○	○	○
35.7	○	○	○	○	○	○	○	○	○	○	○
38.8	○	○	○	○	○	○	○	○	○	○	○
41.8	○	○	○	○	○	○	○	○	○	○	○
44.8	○	○	○	○	○	○	○	○	○	○	○
47.9	○	○	○	○	×	×	×	×	×	×	×

○: Combinations which is allowed. ×: Combinations which is not allowed.

2. Maximum hoist load for number of reeving parts of line for hoist rope.

For Main Boom Hook

No. of Parts of Line	1	2	3	4
Maximum Loads (kN)	132	263	393	525
Maximum Loads (t)	13.5	27.0	40.5	54.0

For Jib Hook

No. of Parts of Line	1	2	3
Maximum Loads (kN)	132	263	393
Maximum Loads (t)	13.5	27.0	40.5

For Auxiliary Sheave

No. of Parts of Line	1
Maximum Loads (kN)	132
Maximum Loads (t)	13.5

Weight of hook block			
Hook Block	70 t	35 t	Ball Hook
Weight (t)	1.2	0.9	0.45

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

135t
CKS1350

Luffing Boom Lifting Capacities with Lifting Jib

Counterweight: 55.0 t
Carbody Weight: 10.8 t

(Attached at 25 degree boom to luffing jib offset angle)

Unit: metric ton

32.7m Boom Length	Boom length (m)	32.7											Boom length (m)
	Jib length (m)	22.9	25.9	29.0	32.0	35.1	38.1	41.1	44.2	47.2	50.3	53.3	Jib length (m)
Working radius (m)	8.6	53.9	52.3	50.5	49.0	47.4	45.4	43.7	41.9	39.6	37.7	35.6	8.6
	9.0	50.5	49.0	47.3	45.8	44.3	42.3	40.6	38.9	36.7	34.8	32.8	9.0
	10.0	43.5	42.0	40.4	39.0	37.6	35.8	34.2	32.5	30.5	28.7	26.8	10.0
	12.0	32.7	31.4	29.9	28.7	27.4	25.8	24.3	22.9	21.1	19.5	17.8	12.0
	14.0	24.5	23.2	21.9	20.7	19.5	18.0	16.7	15.4	13.7	12.2	10.7	14.0
	16.0	18.7	17.5	16.3	15.2	14.1	12.7	11.5	10.2	8.6	7.3	5.9	16.0
	18.0	14.4	13.3	12.1	11.1	10.0	8.7	7.6	6.4	4.9			18.0
	20.0	11.2	10.1	9.0	8.0	7.0	5.7						20.0
	22.0	8.7	7.6	6.5	5.6								22.0
	24.0	6.7	5.7										24.0
26.0	5.0											26.0	
Reeves	4	4	4	4	4	4	4	4	3	3	3	Reeves	

35.7m Boom Length	Boom length (m)	35.7											Boom length (m)
	Jib length (m)	22.9	25.9	29.0	32.0	35.1	38.1	41.1	44.2	47.2	50.3	53.3	Jib length (m)
Working radius (m)	9.1	48.5	46.9	45.3	43.8	42.3	40.5	38.8	37.1	35.0	33.1	31.1	9.1
	10.0	42.5	41.0	39.4	38.1	36.7	34.9	33.3	31.7	29.7	28.0	26.1	10.0
	12.0	32.5	31.2	29.8	28.6	27.3	25.7	24.3	22.9	21.1	19.5	17.9	12.0
	14.0	24.5	23.2	21.9	20.8	19.6	18.2	16.9	15.6	13.9	12.5	11.0	14.0
	16.0	18.7	17.6	16.3	15.3	14.2	12.8	11.6	10.4	8.9	7.5	6.1	16.0
	18.0	14.4	13.3	12.1	11.2	10.1	8.8	7.7	6.5	5.1			18.0
	20.0	11.2	10.1	9.0	8.1	7.1	5.9						20.0
	22.0	8.6	7.6	6.5	5.6								22.0
	24.0	6.7	5.7										24.0
	26.0	5.0											26.0
Reeves	4	4	4	4	4	4	3	3	3	3	3	Reeves	

38.8m Boom Length	Boom length (m)	38.8											Boom length (m)
	Jib length (m)	22.9	25.9	29.0	32.0	35.1	38.1	41.1	44.2	47.2	50.3	53.3	Jib length (m)
Working radius (m)	9.7	43.7	42.2	40.6	39.2	37.8	36.0	34.5	32.8	30.9	29.1	27.2	9.7
	10.0	41.4	40.0	38.5	37.1	35.7	34.0	32.4	30.8	28.9	27.2	25.4	10.0
	12.0	31.6	30.3	28.9	27.7	26.5	24.9	23.5	22.1	20.4	18.8	17.2	12.0
	14.0	24.3	23.1	21.8	20.7	19.6	18.1	16.9	15.6	14.0	12.6	11.1	14.0
	16.0	18.5	17.3	16.1	15.1	14.0	12.7	11.5	10.3	8.8	7.5	6.2	16.0
	18.0	14.3	13.2	12.1	11.1	10.1	8.8	7.7	6.6	5.1			18.0
	20.0	11.1	10.0	8.9	8.0	7.0	5.8						20.0
	22.0	8.5	7.5	6.4	5.6								22.0
	24.0	6.4	5.5										24.0
	Reeves	4	4	4	3	3	3	3	3	3	3	3	Reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough
Terrain
Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain
Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial
Platform

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Luffing Boom Lifting Capacities with Lifting Jib

Counterweight: 55.0 t
Carbody Weight: 10.8 t

(Attached at 25 degree boom to luffing jib offset angle)

Unit: metric ton

41.8m Boom Length	Boom length (m)	41.8											Boom length (m)
	Jib length (m)	22.9	25.9	29.0	32.0	35.1	38.1	41.1	44.2	47.2	50.3	53.3	Jib length (m)
Working radius (m)	10.2	39.6	38.1	36.6	35.3	34.0	32.3	30.8	29.2	27.3	25.6	23.9	10.2
	12.0	31.0	29.7	28.3	27.1	25.9	24.4	23.0	21.6	19.9	18.4	16.8	12.0
	14.0	24.3	23.1	21.8	20.8	19.6	18.2	17.0	15.7	14.1	12.7	11.3	14.0
	16.0	18.5	17.3	16.1	15.1	14.1	12.7	11.6	10.4	8.9	7.7	6.3	16.0
	18.0	14.3	13.2	12.1	11.1	10.1	8.9	7.8	6.7	5.3			18.0
	20.0	11.0	10.0	8.9	8.0	7.1	5.9	4.8					20.0
	22.0	8.5	7.5	6.4	5.6								22.0
	24.0	6.4	5.4										24.0
Reeves	3	3	3	3	3	3	3	3	3	2	2	Reeves	

44.8m Boom Length	Boom length (m)	44.8											Boom length (m)
	Jib length (m)	22.9	25.9	29.0	32.0	35.1	38.1	41.1	44.2	47.2	50.3	53.3	Jib length (m)
Working radius (m)	10.7	36.4	35.1	33.6	32.4	31.1	29.4	28.0	26.5	24.7	23.1	21.4	10.7
	12.0	30.6	29.4	28.0	26.8	25.6	24.1	22.8	21.4	19.7	18.2	16.6	12.0
	14.0	24.1	22.9	21.6	20.6	19.5	18.0	16.8	15.6	14.0	12.7	11.2	14.0
	16.0	18.5	17.4	16.2	15.2	14.2	12.9	11.8	10.6	9.1	7.9	6.6	16.0
	18.0	14.2	13.2	12.0	11.1	10.1	8.9	7.8	6.7	5.4			18.0
	20.0	11.0	10.0	8.9	8.0	7.1	5.9	4.9					20.0
	22.0	8.4	7.4	6.4	5.5								22.0
	24.0	6.3	5.4										24.0
Reeves	3	3	3	3	3	3	3	2	2	2	2	Reeves	

47.9m Boom Length	Boom length (m)	47.9											Boom length (m)
	Jib length (m)	22.9	25.9	29.0	32.0								Jib length (m)
Working radius (m)	11.2	33.2	31.9	30.5	29.3								11.2
	12.0	30.1	28.8	27.5	26.3								12.0
	14.0	23.5	22.3	21.1	20.0								14.0
	16.0	18.4	17.3	16.2	15.2								16.0
	18.0	14.1	13.1	12.0	11.1								18.0
	20.0	10.9	9.9	8.8	8.0								20.0
	22.0	8.3	7.4	6.4	5.5								22.0
	24.0	6.2	5.3										24.0
Reeves	3	3	3	3								Reeves	

Note: Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Luffing Jib Lifting Capacities

Counterweight: 55.0 t
Carbody Weight: 10.8 t

Unit: metric ton

44.8m Boom Length	Boom length (m)		22.9												25.9												44.8												29.0												32.0												Boom length (m)													
	Jib length (m)		88						83						78						73						68						63						88						83						78						73						68						63						Jib length (m)	
	Boom angle (deg)		88		83		78		73		68		63		88		83		78		73		68		63		88		83		78		73		68		63		88		83		78		73		68		63		Boom angle (deg)																									
Working radius (m)	12.0		30.2										26.7												24.6																		12.0																																	
	14.0		28.6										25.3												23.3				22.0												14.0																																			
	16.0		27.2										24.0												22.2				20.9												16.0																																			
	18.0		24.7		25.5								21.3												21.0		21.8												18.0																																					
	20.0		20.9		22.4								21.3		22.0										21.0		21.8		19.8										20.0																																					
	22.0		17.6		19.8								18.0		19.6										18.2		19.4		18.3		19.1								22.0																																					
	24.0		14.9		17.7		15.9						15.4		17.6										15.6		17.4		15.8		17.3								24.0																																					
	26.0				16.0		14.5						13.2		15.8		14.1								13.5		15.7		13.9		13.7		15.6						26.0																																					
	28.0				14.5		13.2						14.4		13.0										11.8		14.2		12.8		12.0		14.1		12.5				28.0																																					
	30.0				13.1		12.0		10.6				13.2		11.9										10.2		13.0		11.7		10.5		12.9		11.7				30.0																																					
	32.0				11.1		10.0						11.9		10.9		9.5								12.0		10.7		9.3		9.2		11.9		10.7				32.0																																					
	34.0				10.2		9.2						10.1		9.0										10.7		9.9		8.8		10.9		9.9		8.4				34.0																																					
	36.0				8.5		7.3						9.3		8.4		7.0								9.3		9.1		8.2		9.7		9.2		8.1				36.0																																					
	38.0				7.9		7.0						7.8		6.8										8.5		7.6		6.2		8.5		8.5		7.5				38.0																																					
	40.0				6.5		5.2						7.2		6.3										7.9		7.1		6.0		7.9		6.9		5.5				40.0																																					
	42.0				6.0		5.0						5.8		4.5										6.6		5.6		6.6		7.4		6.5		5.4				42.0																																					
	44.0				4.7								5.4		4.4										6.1		5.2		3.9		6.0		5.0		4.0		3.2		44.0																																					
	46.0												4.1		3.8										4.8		3.9		4.8		3.9		5.6		4.7		3.4		46.0																																					
	48.0												3.8												4.5		3.6		4.5		4.0		3.2		2.9		50.0																																							
	50.0																								3.3				3.3		4.0		3.2		2.9		52.0																																							
52.0																														4.0		3.2		2.9		52.0																																								
54.0																														4.0		3.2		2.9		52.0																																								
54.0																														4.0		3.2		2.9		52.0																																								
Reeves				3								2												2						2						Reeves																																								

44.8m Boom Length	Boom length (m)		35.1												38.1												44.8												41.1												44.2												Boom length (m)													
	Jib length (m)		88						83						78						73						68						63						88						83						78						73						68						63						Jib length (m)	
	Boom angle (deg)		88		83		78		73		68		63		88		83		78		73		68		63		88		83		78		73		68		63		88		83		78		73		68		63		Boom angle (deg)																									
Working radius (m)	16.0		20.3										18.0												16.6																16.0																																			
	18.0		19.2										17.1												15.7				15.3												18.0																																			
	20.0		18.3										16.2												14.9				14.5												20.0																																			
	22.0		17.4										15.4		16.8										14.2				13.1												22.0																																			
	24.0		15.8		17.0								14.3		15.3										13.5		15.0		12.4		14.7								24.0																																					
	26.0		13.8		15.4								12.5		13.8										12.5		13.7		11.8		13.6								26.0																																					
	28.0		12.1		14.0								11.1		12.6										11.1		12.5		11.0		12.4								28.0																																					
	30.0		10.7		12.8		11.2						9.8		11.6		10.1								9.8		11.5		10.0		9.8		11.3						30.0																																					
	32.0		9.4		11.7		10.6						8.7		10.7		9.6								8.8		10.6		9.5		8.7		10.4		9.0				32.0																																					
	34.0		8.3		10.8		9.8						7.7		9.9		8.9								7.8		9.8		8.8		7.8		9.6		8.6				34.0																																					
	36.0		7.4		9.9		9.1		7.6				6.9		8.9		8.2		6.8						7.0		8.9		8.1		7.0		8.8		8.0				36.0																																					
	38.0				7.8		7.8		6.8				7.9		7.7		6.6								6.2		7.9		6.1		6.3		7.9		7.4				38.0																																					
	40.0				6.8		7.3		6.4		4.9		7.0		7.1		6.2								5.5		7.1		7.0		5.6		7.1		6.9		5.5		42.0																																					
	42.0				6.8		7.3		6.4		4.9		6.2		5.7		4.3								6.3		6.6		5.6		5.0		6.4		6.5		5.4		44.0																																					
	44.0				6.8		7.3		6.4		4.9		6.2		5.7		4.3								5.6		6.1		5.2		5.1		6.0		5.0		4.0		3.1		46.0																																			
	46.0				6.4		5.5		4.5				5.9		5.0		4.0								4.9		5.8		4.8		5.7		5.7		4.7		3.3		48.0																																					
	48.0				5.2		4.2		3.0				4.6		3.7		2.4								5.4		4.5		3.5		4.5		5.3		4.4		3.3		50.0																																					
	50.0				4.8		3.9		3.0				4.3		3.4		2.4								5.1		4.2		3.3		5.0		4.0		3.1		52.0																																							
	52.0				3.6		2.8						3.2		2.3										3.9		3.0		4.6		3.8		2.9		54.0																																									
	54.0				3.4		2.6						2.9		2.1										3.6		2.8		3.5		2.7		2.7		56.0																																									
56.0				2.4								2.0												2.6				3.3		2.4		2.2		60.0																																										
58.0																												3.3		2.4		2.2		60.0																																										
60.0																												3.3		2.4		2.2		60.0																																										
62.0																												3.3		2.4		2.2		60.0																																										
62.0																												3.3		2.4		2.2		60.0																																										
Reeves				2								2												2						2						Reeves																																								

44.8m Boom Length	Boom length (m)		47.2												50.3												44.8												53.3												Boom length (m)																									
	Jib length (m)		88						83						78						73						68						63						88						83						78						73						68						63						Jib length (m)	
	Boom angle (deg)		88		83		78		73		68		63		88		83		78		73		68		63		88		83		78		73		68		63		88		83		78		73		68		63		Boom angle (deg)																									

Supplemental Data For Clamshell Rating Chart

135t
CKS1350

- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of bucket, slings and all other load handling accessories from main boom ratings shown.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Rated loads do not exceed 66% of minimum tipping loads.
- Ratings are for operation on a firm and level surface, up to 1% gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 part line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.

(Clamshell bucket lifting)

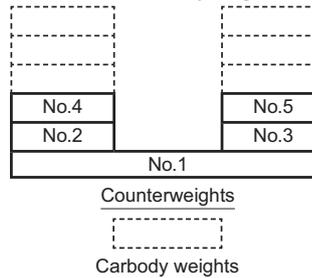
- The total load that can be lifted is the value for weight of bucket, slings, and all other load handling accessories deducted from main boom ratings shown.
- The weight of bucket and materials must not exceed rated load.
- Optimum bucket should be required according to material. $\text{Bucket capacity (m}^3\text{) x specified gravity of material (ton/m}^3\text{) + bucket weight (ton) = rated load.}$
- Bucket weight must also be decreased according to operating cycle and bucket lowering height.
- Rated loads are determined by stability and boom strength. during simultaneous operations of boom and swing, rapid acceleration or deceleration must be avoided.
- Do not attempt to cast the bucket while swinging or diagonal draw-cutting.

<Reference Information>

Main hoist loads

No. of Parts of Line	1
Maximum Loads (kN)	113
Maximum Loads (t)	11.5

Assembling the counterweight
28.0 ton counterweight
without carbody weight



Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Clamshell Rating Charts Crane Boom Capacities

Counterweight: 28.0 t
Without Carbody Weight

Unit: metric ton

Load radius (m)	Boom length (m)	15.2	18.3	21.3	24.4	27.4					Boom length (m)	Load radius (m)
	7.0											
7.0	11.5										7.0	
8.0	11.5	11.5									8.0	
9.0	11.5	11.5	11.5								9.0	
10.0	11.5	11.5	11.5	11.5							10.0	
12.0	11.5	11.5	11.5	11.5	11.5	10.0					12.0	
14.0	11.5	11.5	11.5	11.5	11.5	10.0					14.0	
16.0		11.5	11.5	11.5	11.5	10.0					16.0	
18.0			11.5	11.5	11.5	10.0					18.0	
20.0					11.5	10.0					20.0	
22.0						10.0					22.0	
24.0											24.0	
26.0											26.0	
28.0											28.0	
30.0											30.0	
32.0											32.0	
34.0											34.0	
36.0											36.0	
38.0											38.0	
40.0											40.0	
42.0											42.0	
44.0											44.0	
46.0											46.0	
48.0											48.0	
50.0											50.0	
52.0											52.0	
54.0											54.0	
56.0											56.0	
58.0											58.0	
60.0											60.0	
62.0											62.0	
64.0											64.0	
Reeves		1	1	1	1	1					Reeves	

Note:
Please refer rated chart in operator's cabin.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Supplemental Data For Reduced Weights Rating Chart

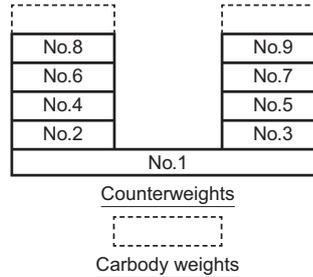
- Ratings according to EN13000.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of hook block (s), slings and all other load handling accessories from main boom ratings shown.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions, out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for operation on a firm and level surface, up to 1% gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 parts line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- When erecting and lowering the boom length of 73.2 m (240 ft) or over, the blocks for erection must be placed at the end of the crawlers.
- Ratings inside of boxes are limited by strength of materials.
- The minimum rated load is 2.0 (ton).

(Crane boom lifting)

- The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

Counterweight	Carbody weight	Boom length	
		Without aux.	With aux.
46.0 ton	Without	15.2 m ~ 76.2 m	15.2 m ~ 73.2 m

Assembling the counterweight
46.0 ton counterweight
without carbody weight



<Reference Information>

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	132	265	397	530	662
Maximum Loads (t)	13.5	27.0	40.5	54.0	67.5

No. of Parts of Line	6	7	8	9	10
Maximum Loads (kN)	794	927	1,059	1,192	1,324
Maximum Loads (t)	81.0	94.5	108.0	121.5	135.0

Auxiliary hoist loads

No. of Parts of Line	1	2
Maximum Loads (kN)	132	265
Maximum Loads (t)	13.5	27.0

Weight of hook block				
Hook Block	135 t	70 t	35 t	Ball Hook
Weight (t)	1.7	1.2	0.9	0.45

Operation of this equipment in excess of rated loads
or disregard of instruction voids the warranty.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Reduced Weights Rating Charts Crane Boom Lifting Capacities

Counterweight: 46.0 t
Without Carbody Weight

Unit: metric ton

Load radius (m)	Boom length (m)		21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	Boom length (m)	Load radius (m)
	15.2	18.3													
4.5	4.5m/127.2														4.5
5.0	123.5	5.1m/122.1													5.0
5.5	117.9	117.7	5.6m/115.2												5.5
6.0	108.6	108.4	105.2	6.1m/96.2	6.7m/83.8										6.0
7.0	84.6	84.5	84.5	82.8	79.5	7.2m/74.1	7.7m/65.3								7.0
8.0	68.0	67.8	67.8	67.7	67.6	65.6	63.5	8.2m/58.9	8.8m/53.6						8.0
9.0	56.7	56.5	56.5	56.3	56.2	56.2	55.6	53.9	52.3	9.3m/48.5	9.8m/44.6				9.0
10.0	48.5	48.4	48.3	48.2	48.0	48.0	47.9	47.7	46.6	45.4	44.1	10.4m/41.2	10.9m/38.2		10.0
12.0	37.5	37.3	37.2	37.1	37.0	36.9	36.8	36.6	36.6	36.5	36.2	35.3	34.5		12.0
14.0	30.5	30.3	30.1	30.0	29.8	29.8	29.7	29.5	29.5	29.3	29.2	29.0	29.0		14.0
16.0	14.8m/28.3	25.3	25.2	25.1	24.9	24.8	24.7	24.5	24.5	24.4	24.2	24.0	24.0		16.0
18.0		17.5m/22.5	21.6	21.4	21.2	21.2	21.1	20.9	20.8	20.7	20.5	20.3	20.3		18.0
20.0			18.8	18.6	18.4	18.4	18.3	18.1	18.0	17.9	17.7	17.5	17.5		20.0
22.0			20.1m/18.8	16.5	16.2	16.2	16.1	15.8	15.8	15.6	15.4	15.3	15.2		22.0
24.0				22.8m/15.7	14.5	14.4	14.3	14.0	14.0	13.8	13.6	13.5	13.4		24.0
26.0					25.4m/13.4	12.9	12.8	12.6	12.5	12.3	12.1	12.0	11.9		26.0
28.0						11.7	11.5	11.3	11.2	11.1	10.9	10.7	10.7		28.0
30.0						28.1m/11.6	10.5	10.3	10.2	10.0	9.8	9.6	9.6		30.0
32.0							30.7m/10.1	9.4	9.2	9.1	8.9	8.7	8.7		32.0
34.0								33.3m/8.8	8.5	8.3	8.1	7.9	7.9		34.0
36.0									7.7	7.6	7.4	7.2	7.2		36.0
38.0										7.0	6.8	6.6	6.5		38.0
40.0											6.2	6.1	6.0		40.0
42.0											41.2m/5.9	5.5	5.4		42.0
44.0												43.9m/5.0	4.9		44.0
46.0													4.5		46.0
48.0													46.5m/4.4		48.0
50.0															50.0
52.0															52.0
54.0															54.0
56.0															56.0
Reeves	10	10	9	8	7	6	5	5	4	4	4	4	3		Reeves

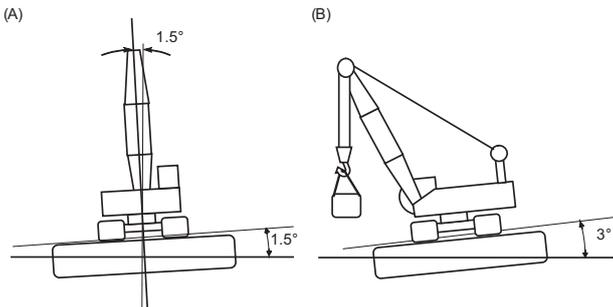
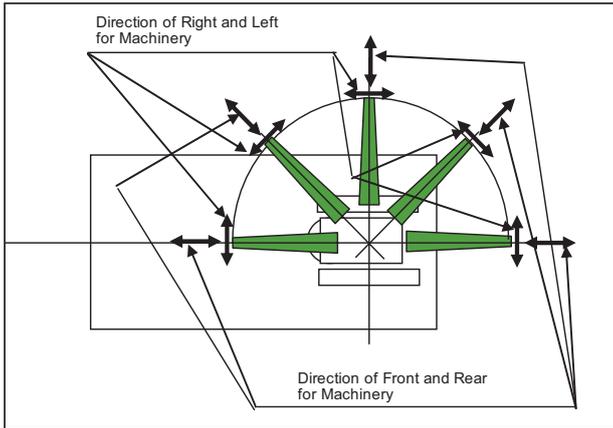
Load radius (m)	Boom length (m)		61.0	64.0	67.1	70.1	73.2	76.2						Boom length (m)	Load radius (m)
	54.9	57.9													
10.0	11.4m/35.1	11.9m/32.7													10.0
12.0	33.5	32.7	12.5m/30.5	13.0m/28.3	13.5m/25.8										12.0
14.0	28.3	27.7	27.0	26.3	25.2	14.1m/22.7	14.6m/20.0	15.1m/17.6							14.0
16.0	23.8	23.7	23.2	22.6	22.1	20.6	18.6	16.8							16.0
18.0	20.1	20.0	19.8	19.7	19.2	18.7	16.9	15.2							18.0
20.0	17.3	17.2	17.0	16.8	16.8	16.4	15.4	13.8							20.0
22.0	15.0	14.9	14.7	14.6	14.5	14.4	14.1	12.7							22.0
24.0	13.2	13.1	12.9	12.8	12.7	12.6	12.4	11.7							24.0
26.0	11.7	11.6	11.4	11.2	11.2	11.1	10.9	10.7							26.0
28.0	10.5	10.3	10.2	10.0	9.9	9.8	9.6	9.5							28.0
30.0	9.4	9.2	9.1	8.9	8.9	8.7	8.5	8.4							30.0
32.0	8.5	8.3	8.1	8.0	7.9	7.8	7.6	7.4							32.0
34.0	7.7	7.5	7.3	7.2	7.1	7.0	6.8	6.6							34.0
36.0	6.9	6.8	6.6	6.4	6.4	6.2	6.0	5.8							36.0
38.0	6.3	6.2	6.0	5.8	5.7	5.5	5.3	5.1							38.0
40.0	5.7	5.5	5.3	5.1	5.1	4.9	4.7	4.5							40.0
42.0	5.2	5.0	4.8	4.6	4.5	4.3	4.1	3.9							42.0
44.0	4.7	4.5	4.3	4.1	4.0	3.8	3.6	3.4							44.0
46.0	4.2	4.0	3.8	3.6	3.5	3.3	3.1	2.9							46.0
48.0	3.8	3.6	3.4	3.2	3.1	2.9	2.7	2.5							48.0
50.0	49.2m/3.5	3.2	3.0	2.8	2.7	2.5	2.3	2.1							50.0
52.0		51.8m/2.9	2.7	2.5	2.4	2.2	2.0								52.0
54.0			2.3	2.2	2.1										54.0
56.0			54.4m/2.3												56.0
58.0															58.0
60.0															60.0
62.0															62.0
64.0															64.0
66.0															66.0
68.0															68.0
70.0															70.0
Reeves	3	3	3	3	2	2	2	2							Reeves

Note:
Ratings according to EN13000.
Ratings shown in [] are determined by the strength of the boom or other structural components.
Lifting capacities may vary depending on hook used or with/without auxiliary sheave.
Please refer rated chart in operator's cabin.

- Crawler Crane**
- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2
- Rough Terrain Crane**
- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL
- 60t GR-600EX
- 80t GR-800EX
- All Terrain Crane**
- 160t ATF160G-5
- 200t LTM1200-5.1
- 220t ATF220G-5
- Aerial Platform**
- 58.0
- 60.0
- 62.0
- 64.0
- 66.0
- 68.0
- 70.0
- Truck Mounted Crane**
- Forklift**
- Tele handler**
- Excavator**
- Bull Dozer**
- Vibro Roller**
- Baby Roller**
- Motor Grader**

Supplemental Data For Barge Rating Chart

- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- Deduct weight of hook block (s), slings and all other load handling accessories from main boom ratings shown.
- Condition of barge stability this rating chart were determined under the condition below. The stability of barge shall meet below condition. During operation the machinery static inclination against horizontal level.
 - (A) Both sides (right & left) of machine
Maximum inclination shall be within 1.5 degrees
 - (B) Front & backward of machine
Maximum inclination shall be within 3.0 degrees



- Working area shall be inshore and smooth water.
- Applicable regulations for structure Japanese construction codes for mobile crane
 - ※ Regulation of class of shipping (abs, lloyd, bv, nk, etc) are not adapted.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 12 part line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes are limited by strength of materials.
- The minimum rated load is 2.0 (ton).
- The machinery should be fastened to the deck of the barge to prevent tip over and sliding.
- Towing area
 - Towing area shall be within coastal area and quiet wave condition. Offshore and open sea is not considered for this machinery. Depend on the height of wave, counterweight shall be reduced during towing.

(Crane boom lifting)

- The total load that can be lifted is the value for weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Supplemental Data For Barge Rating Chart

<Reference Information>

Main hoist loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (kN)	132	265	397	530	662
Maximum Loads (t)	13.5	27.0	40.5	54.0	67.5

No. of Parts of Line	6
Maximum Loads (kN)	785
Maximum Loads (t)	80.0

Auxiliary hoist loads

No. of Parts of Line	1	2
Maximum Loads (kN)	132	216
Maximum Loads (t)	13.5	22.0

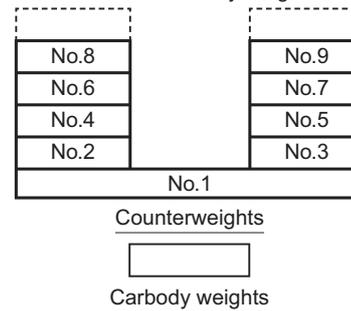
Weight of Hook Block				
Hook Block	135 t	70 t	35 t	13.5 t Ball Hook
Weight (t)	1.7	1.2	0.9	0.45

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

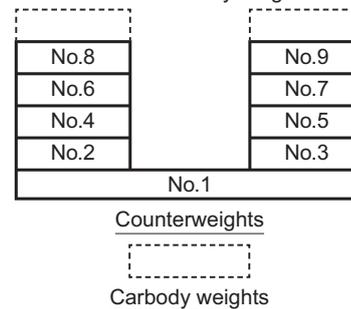
counterweight shall be reduced, and carbody weight shall be removed according to the boom length as below.

	On Barge		On Gound (Full c/w)
	15.2 m	18.3 m to 39.6 m	15.2 m to 76.2 m
Counterweight	46.0 t	46.0 t	55.0 t
Carbody Weight	10.8 t	None (Removed)	10.8 t

Assembling the counterweight
(Boom Length: 15.2 m)
46.0 ton counterweight
10.8 ton carbody weight



Assembling the counterweight
(Boom Length: 18.3 m to 39.6 m)
46.0 ton counterweight
without carbody weight



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

Barge Raiting Chart Crane Boom Lifting Capacities

	On Barge	
Boom Length	15.2 m	18.3 m to 39.6 m
Counterweight	46.0 t	46.0 t
Carbody Weight	10.8 t	None (Removed)

Unit: metric tons

Load radius (m) \ Boom length (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	Boom length (m) \ Load radius (m)
5.0	5.3m/80.0									5.0
6.0	69.1	66.8	6.7m/63.0							6.0
7.0	60.7	60.4	60.1	7.4m/56.6						7.0
8.0	52.7	52.4	52.1	51.9	8.1m/51.2	8.7m/46.7				8.0
9.0	46.7	46.6	46.5	46.4	45.5	45.4	9.4m/41.6			9.0
10.0	41.6	41.3	41.0	40.9	40.6	40.4	40.3	10.1m/37.5	10.8m/33.5	10.0
12.0	34.2	33.9	33.6	33.4	33.2	33.0	32.9	32.6	32.2	12.0
14.0	26.4	28.4	28.3	28.2	27.9	27.7	27.5	27.3	27.1	14.0
16.0	14.8m/22.5	23.8	24.2	24.1	23.9	23.8	23.6	23.3	23.1	16.0
18.0		17.5m/18.7	20.4	20.5	20.4	20.3	20.2	20.1	20.0	18.0
20.0			16.0	17.4	17.3	17.2	17.1	17.0	16.9	20.0
22.0			20.1m/15.6	14.7	14.9	14.8	14.7	14.6	14.5	22.0
24.0				22.8m/13.2	12.8	12.8	12.7	12.6	12.5	24.0
26.0					25.4m/11.1	11.2	11.1	11.0	10.9	26.0
28.0						10.0	9.9	9.8	9.7	28.0
30.0							8.9	8.8	8.7	30.0
32.0							30.7m/8.4	8.2	8.1	32.0
34.0								33.3m/7.4	7.6	34.0
36.0									6.6	36.0
Reeves	6	5	5	5	4	4	4	3	3	Reeves

Note:

Ratings according to japanese construction codes for mobile cranes and japanese safety ordinance on cranes, etc.

Ratings shown in are determined by the strength of the boom or other structural components.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

135t
CKS1350

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

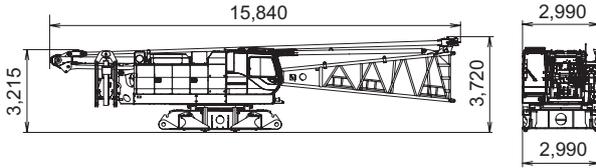
Bull Dozer

Vibro Roller
Baby Roller

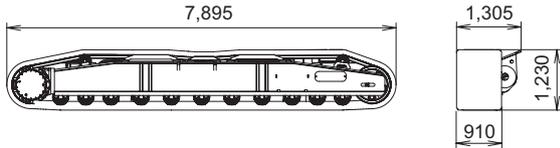
Motor Grader

Parts And Attachments

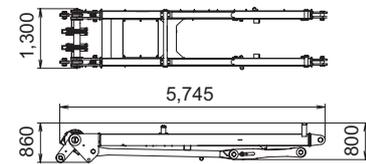
Base Machine
Gantry, Wire rope (Front/rear/boom hoist), Boom base, Crane backstop, Self removal cylinder, Without crawler
Weight: 38,250 kg Width: 2,990 mm



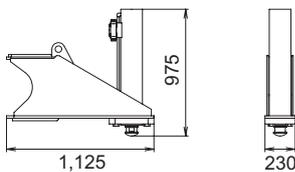
Crawler
Weight: 14,225 kg



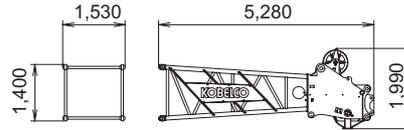
Gantry
Weight: 2,090 kg



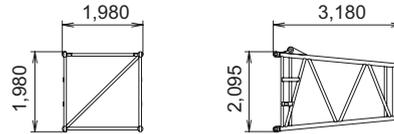
Translifter
Weight: 1,220 kg / 4 Pieces



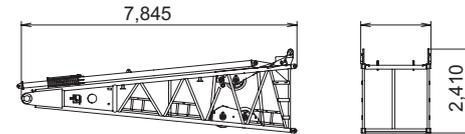
Boom Tip (for Crane)
Weight: 1,670 kg



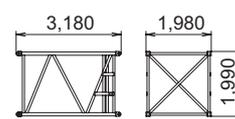
Taper Boom Insert
Weight: 490 kg



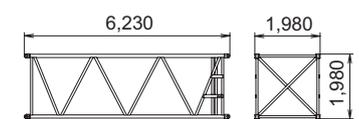
Boom Base
Weight: 4,350 kg



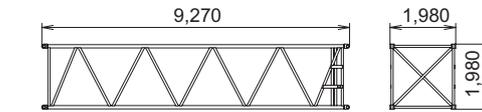
3.0 m Boom Insert
Weight: 530 kg



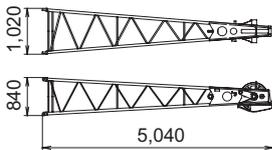
6.1 m Boom Insert
Weight: 850 kg



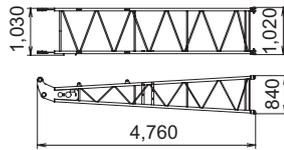
9.1 m Boom Insert
Weight: 1,160 kg



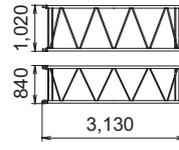
Jib Tip (Fixed Jib)
Weight: 315 kg



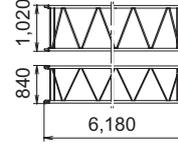
Jib Base (Fixed Jib)
Weight: 210 kg



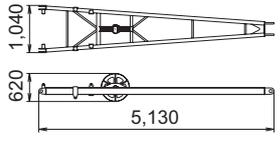
3.0 m Jib Insert (Fixed Jib)
Weight: 110 kg



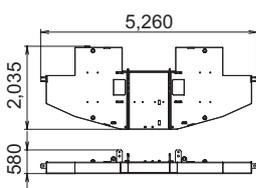
6.1 m Jib Insert (Fixed Jib)
Weight: 190 kg



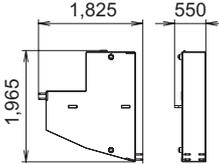
Crane Jib Strut
Weight: 300 kg



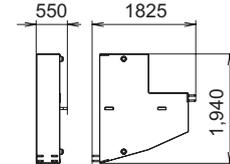
Counterweight (Base Weight)
Weight: 10,000 kg



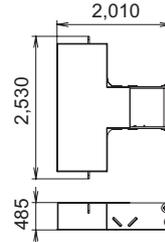
Counterweight
Weight: 4,500 kg



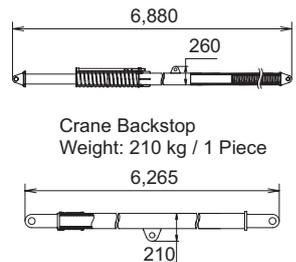
Counterweight (Add. weight)
Weight: 4,500 kg



Carbody Weight
Weight: 10,800 kg / 2 Piece



Crane and Luffing Backstop
Weight: 520 kg / 1 Piece



Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

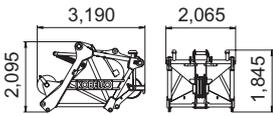
Bull Dozer

Vibro Roller

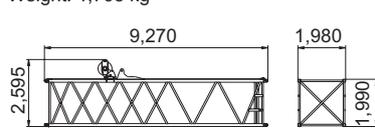
Baby Roller

Motor Grader

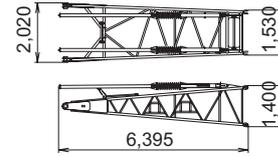
Luffing Upper Boom
Weight: 2,465 kg



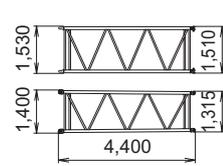
9.1 m
Special Boom Insert for Tower
(Inc. guide sheave and steps)
Weight: 1,795 kg



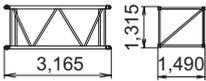
Jib Base (Luffing Jib)
Weight: 1,200 kg



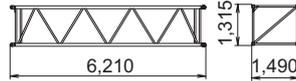
4.3 m
Taper Jib Insert (Luffing Jib)
Weight: 410 kg



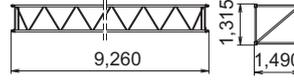
3.0 m
Jib Insert (Luffing Jib)
Weight: 310 kg



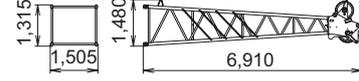
6.1 m
Jib Insert (Luffing Jib)
Weight: 540 kg



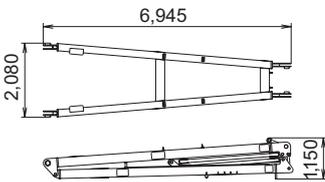
9.1 m
Jib Insert (Luffing Jib)
Weight: 740 kg



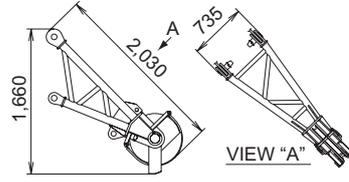
Jib Tip (Luffing Jib)
Weight: 1,170 kg



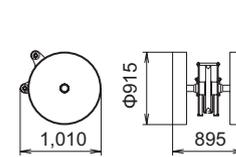
Jib Strut (Luffing Jib)
Weight: 2,010 kg



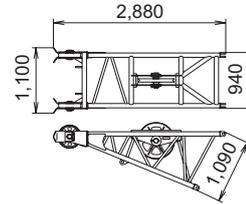
Auxiliary Sheave (for Crane)
Weight: 300 kg



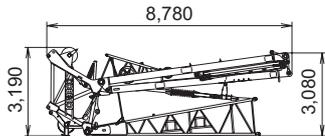
Auxiliary Sheave (for Luffing)
Weight: 380 kg



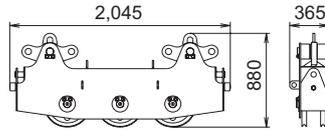
Rear Guide Roller
Weight: 425 kg



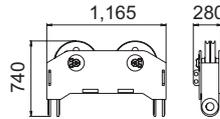
Luffing Boom Tip Assembly
Weight: 5,300 kg Width: 2,065 mm



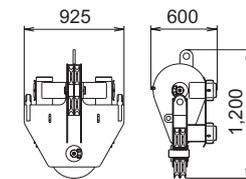
Upper Spreader (for Crane)
Weight: 485 kg



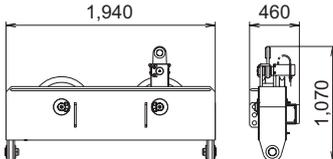
Lower Spreader (for Crane)
Weight: 300 kg



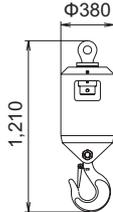
Jib Upper Spreader (for Luffing)
Weight: 260 kg



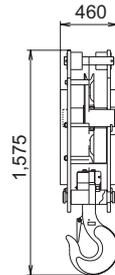
Jib Lower Spreader (for Luffing)
Weight: 405 kg



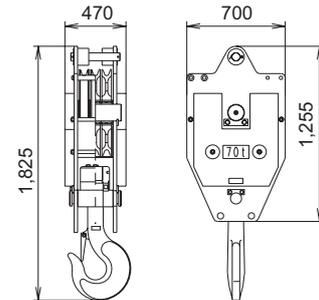
Ball Hook
Weight: 450 kg



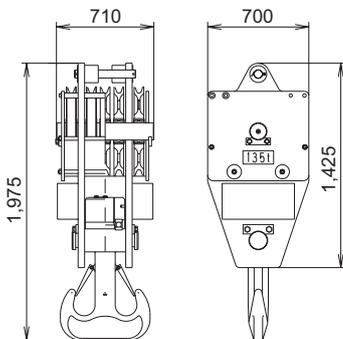
35 t Hook
Weight: 900 kg



70 t Hook
Weight: 1,200 kg



135 t Hook
Weight: 1,700 kg



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Transportation Plan

Name	Dimension	Weight (kg)
Base Machine · Gantry · Wire rope (Front / rear / boom hoist) · Boom base · Crane backstop · Self removal cylinder · Without crawler · Without side steps		38,250
Base Machine · Gantry · Wire rope (Front / rear / boom hoist) · Without crawler · Without self removal cylinder · Without side steps		32,430
Base Machine · Without crawler · Without gantry · Without wire rope (Boom hoist) · Without self removal cylinder · Without side steps		29,620
Self removal cylinder		1,510
Crawler		14,225

*1 With the side step on cabin side: 3,170
With the side steps on the both sides: 3,340

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Crawler Crane 180t CKE1800

Manual PDF

**Crawler Crane
180t CKE1800
(KOBELCO)**



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Configuration

Crane Boom

Max. Lifting Capacity:
160 metric ton x 4.4 m
Max. Boom Length:
85.3 m



Long Boom

Max. Lifting Capacity:
40.1 metric ton x 12.0 m
Max. Boom Length:
85.3 m



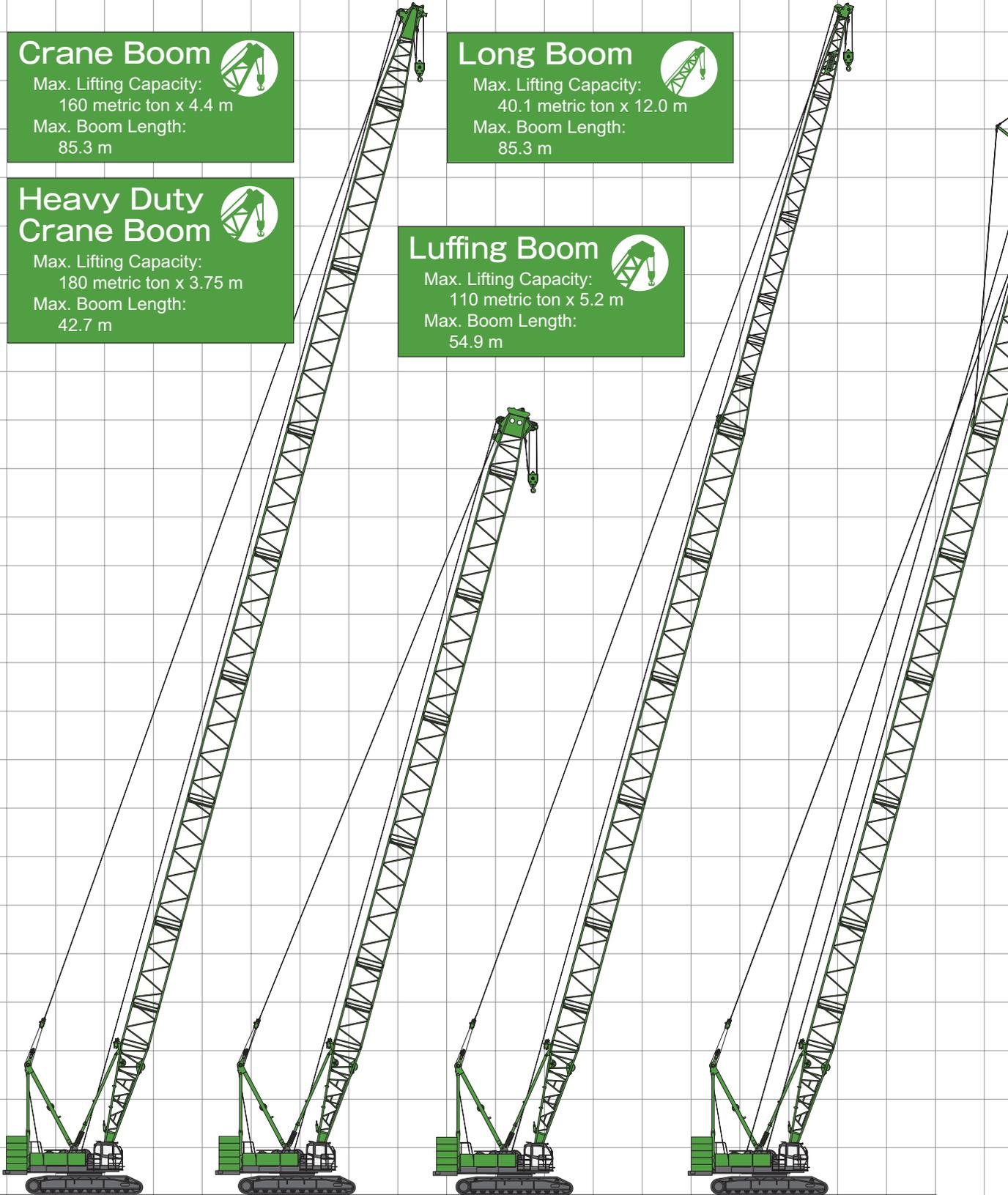
Heavy Duty Crane Boom

Max. Lifting Capacity:
180 metric ton x 3.75 m
Max. Boom Length:
42.7 m



Luffing Boom

Max. Lifting Capacity:
110 metric ton x 5.2 m
Max. Boom Length:
54.9 m



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

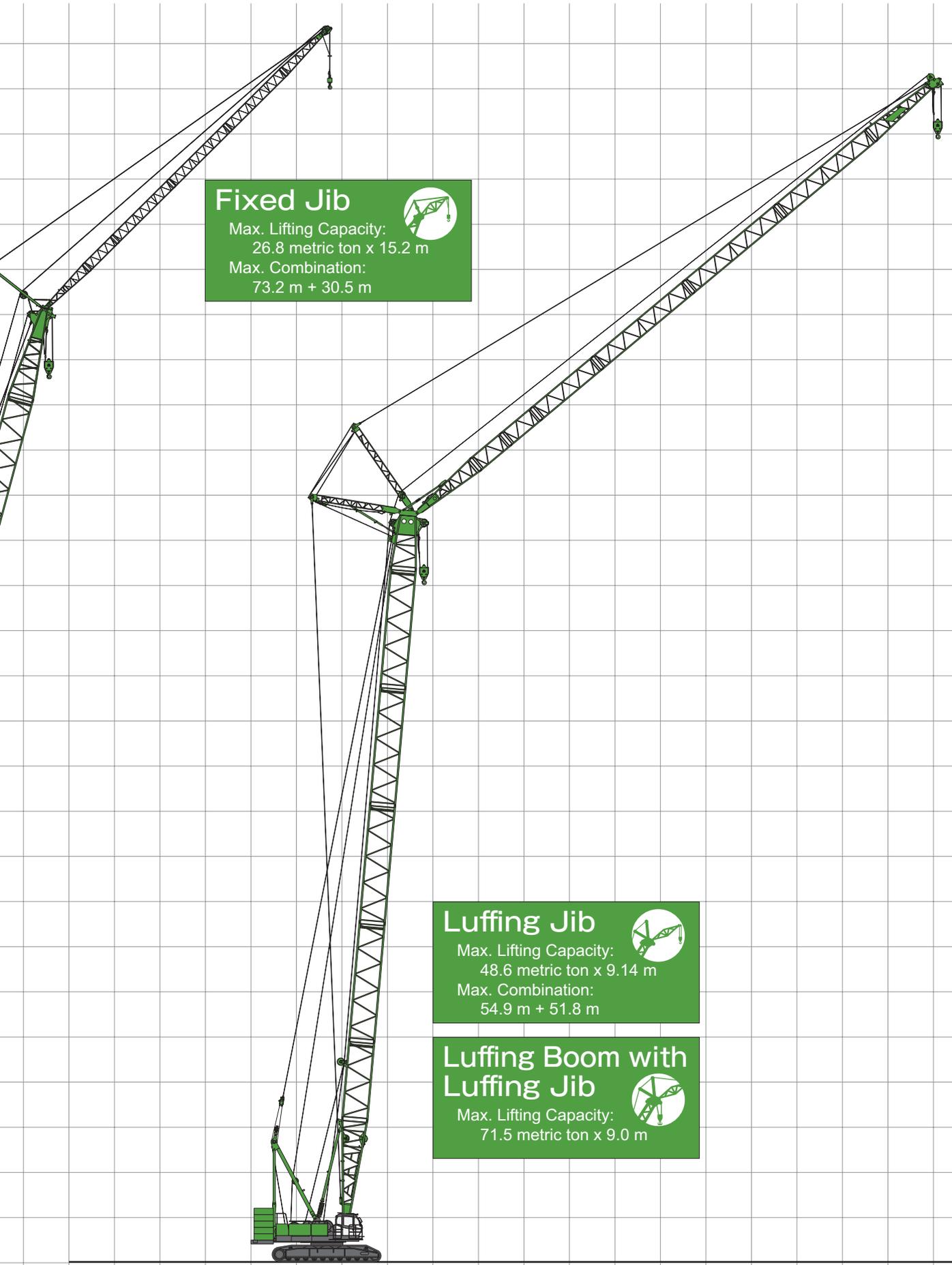
Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader



Fixed Jib

Max. Lifting Capacity:
26.8 metric ton x 15.2 m
Max. Combination:
73.2 m + 30.5 m



Luffing Jib

Max. Lifting Capacity:
48.6 metric ton x 9.14 m
Max. Combination:
54.9 m + 51.8 m



Luffing Boom with Luffing Jib

Max. Lifting Capacity:
71.5 metric ton x 9.0 m



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

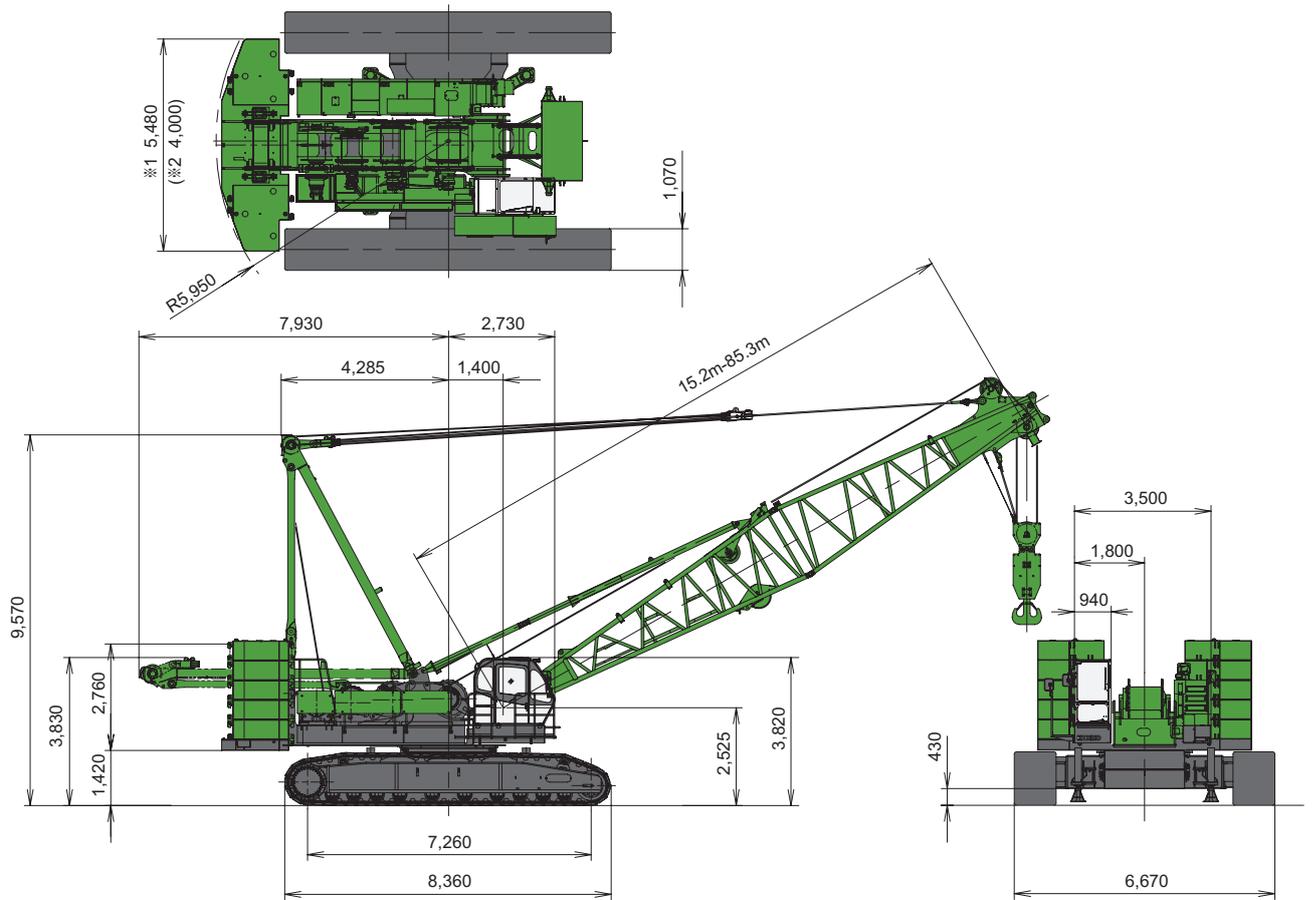
Vibro Roller
Baby Roller

Motor Grader

General Dimensions

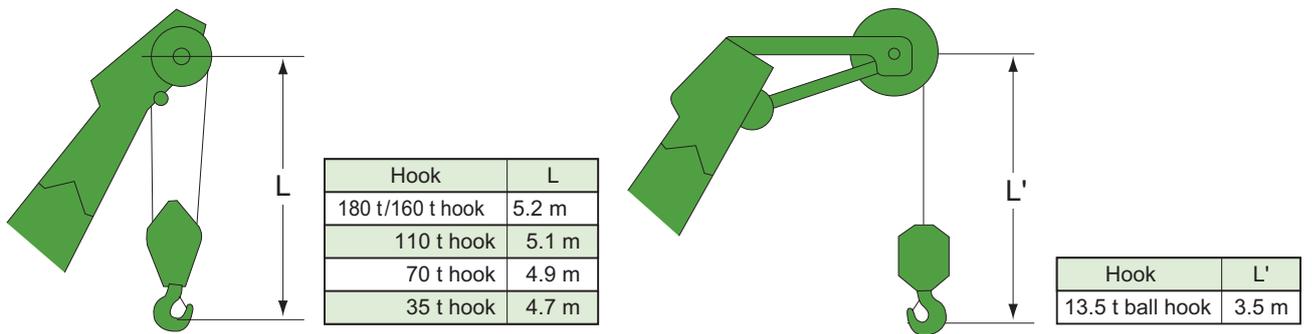
Crane Boom

(Unit: mm)



※1: Serial number JCB1-●●●●●~ (current model)
 ※2: Serial number JC04-●●●●●~ (conventional model)

Limit of Hook Lifting



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

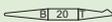
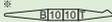
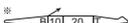
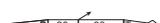
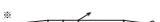
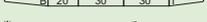
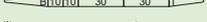
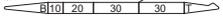
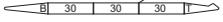
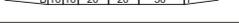
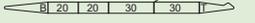
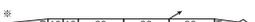
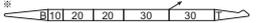
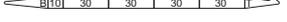
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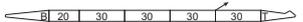
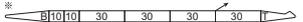
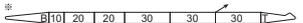
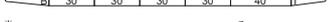
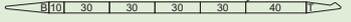
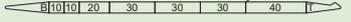
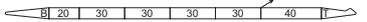
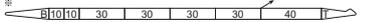
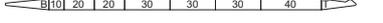
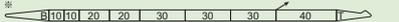
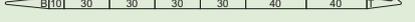
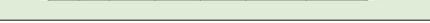
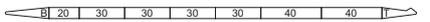
- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Boom And Jib Arrangements

180t
CKE1800

Crane Boom Arrangements

Boom length m (ft)	Boom arrangement
12.2 (40)	 For Heavy Duty Crane Boom
15.2 (50)	
18.3 (60)	* 
21.3 (70)	 * 
24.4 (80)	*  
27.4 (90)	*  
30.5 (100)	 * 
33.5 (110)	*  
36.6 (120)	*  
39.6 (130)	 *  * 
42.7 (140)	*   * 
45.7 (150)	 *  
48.8 (160)	 *  
51.8 (170)	*   * 
54.9 (180)	 *  

Boom length m (ft)	Boom arrangement
57.9 (190)	 *  * 
61.0 (200)	*  * 
64.0 (210)	*   * 
67.1 (220)	 *  
70.1 (230)	 *  * 
73.2 (240)	*  * 
76.2 (250)	*   * 
79.3 (260)	 *  
82.3 (270)	 *  * 
85.3 (280)	* 

Symbol	Boom Length	Remarks
	8.5 m	Boom Base
	3.7 m	Heavy Duty Crane Boom Top
	6.7 m	Boom Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	9.1 m	Insert Boom
	12.2 m	Insert Boom

↗ mark shows the guy line installing position when the fixed jib is used.

* Indicates the most flexible combination of insert booms, which can be modified to form all shorter boom arrangements.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

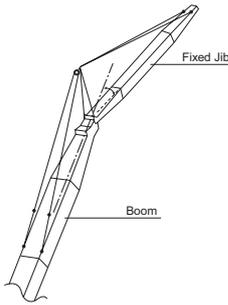
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Boom And Jib Arrangements

Fixed Jib Arrangements



Crane boom length	Jib length m (ft)	Jib arrangement
24.4 m 73.2 m	12.2(40)	
	18.3 (60)	
	24.4 (80)	
	30.5 (100)	

Symbol	Jib Length	Remarks
	4.6 m	Jib Base
	4.6 m	Jib Top
	3.0 m	Insert Jib
	6.1 m	Insert Jib

Long Boom Arrangements

Boom length m (ft)	Long Boom arrangement
61.0 (200)	
64.0 (210)	
67.1 (220)	
70.1 (230)	
73.2 (240)	
76.2 (250)	
79.3 (260)	
82.3 (270)	
85.3 (280)	

Symbol	Long Boom Length	Remarks
	8.5 m	Boom Base
	6.4 m	Luffing Jib Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	9.1 m	Insert Boom
	3.6 m	Tapered Boom
	3.0 m	Luffing Insert Jib
	6.1 m	Luffing Insert Jib
	9.1 m	Luffing Insert Jib

※ Indicates the most flexible combination of insert long booms, which can be modified to form all shorter long boom arrangements.

Luffing Boom Arrangements for Crane

Boom length m (ft)	Boom arrangement	Boom length m (ft)	Boom arrangement
15.2 (50)		36.6 (120)	
18.3 (60)		39.6 (130)	
21.3 (70)		42.7 (140)	
24.4 (80)		45.7 (150)	
27.4 (90)		48.8 (160)	
30.5 (100)		51.8 (170)	
33.5 (110)		54.9 (180)	

Symbol	Luffing Boom Length	Remarks
	8.5 m	Boom Base
	3.7 m	Luffing Boom Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	9.1 m	Insert Boom

※ Indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Luffing Jib Arrangements

Jib length m (ft)	Jib arrangement
21.3 (70)	
24.4 (80)	
27.4 (90)	
30.5 (100)	
33.5 (110)	

Jib length m (ft)	Jib arrangement
36.6 (120)	
39.6 (130)	
42.7 (140)	
45.7 (150)	
48.8 (160)	
51.8 (170)	

Symbol	Luffing Jib Length	Remarks
	5.8 m	Luffing Jib Base
	6.4 m	Luffing Jib Top
	3.0 m	Luffing Insert Jib
	6.1 m	Luffing Insert Jib
	9.1 m	Luffing Insert Jib

※ Indicates the most flexible combination of insert luffing jibs, which can be modified to form all shorter luffing jib arrangements.

Luffing Boom and Jib Combinations.

Boom Length (m)	Jib Length (m)											
	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	
21.3	○	○	○	○	○	○	○	○	○	○	○	
24.4	○	○	○	○	○	○	○	○	○	○	○	
27.4	○	○	○	○	○	○	○	○	○	○	○	
30.5	○	○	○	○	○	○	○	○	○	○	○	
33.5	○	○	○	○	○	○	○	○	○	○	○	
36.6	○	○	○	○	○	○	○	○	○	○	○	
39.6	○	○	○	○	○	○	○	○	○	○	○	
42.7	○	○	○	○	○	○	○	○	○	○	○	
45.7	○	○	○	○	○	○	○	○	○	○	○	
48.8	○	○	○	○	○	○	○	○	○	○	○	
51.8	○	○	○	○	○	○	○	○	○	○	○	
54.9	○	○	○	○	○	○	○	○	○	○	○	

○ : Combinations which is allowed



Hook Blocks

A range of hook blocks can be specified, each with a safety latch.

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)					
			1	2	3	4	5	6
180/160-ton	2,800	8	-	26.8	40.1	53.5	66.9	80.3
110-ton	1,800	4	-	26.8	40.1	53.5	66.9	80.3
70-ton	1,200	3	-	26.8	40.1	53.5	66.9	70.0
35-ton	900	1	-	26.8	35.0	-	-	-
13.5-ton ball hook	460	0	13.5	-	-	-	-	-

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)					
			7	8	9	10	12	14
180/160-ton	2,800	8	93.7	107.0	120.4	133.8	160.0	180.0
110-ton	1,800	4	93.7	107.0	110.0	-	-	-
70-ton	1,200	3	-	-	-	-	-	-
35-ton	900	1	-	-	-	-	-	-
13.5-ton ball hook	460	0	-	-	-	-	-	-



Main Hoist Drum Rated Loads in Metric Tons

No. of Parts of Line	1	2	3	4	5	6
Max. Loads (ton)	13.5	26.8	40.1	53.5	66.9	80.3
No. of Parts of Line	7	8	9	10	12	14
Max. Loads (ton)	93.7	107.0	120.4	133.8	160.0	180.0

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough
Terrain
Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain
Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial
Platform

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Specifications



Power Plant

Model:Hino diesel engine P11C-UN
 Type:Water-cooled, direct fuel injection, with turbocharger
 Complies with NRMM (Europe) Tier III and USA EPA Tier III
 Displacement: 10.520 liters
 Rated Power: 247 kW/ 2,000 min⁻¹{rpm} (ISO)
 Max. torque: 1,300 N-m/1,500 min⁻¹
 Cooling system:Liquid, re-circulating bypass
 Starter: 24V / 6.0 kW
 Radiator: Corrugated type core, thermostatically controlled
 Air cleaner: Dry type with replaceable paper element
 Throttle: Electric throttle control, twist grip type
 Fuel filter: Replaceable paper element.
 Batteries: Two 12 V, 170 Ah/20 HR capacity batteries, series connected.
 Fuel tank capacity: 400 liters



Hydraulic System

Four variable displacement piston pumps are driven by heavy-duty pump drive. Two of variable displacement pumps are used in the main hook hoist circuit, auxiliary hook hoist circuit, third hoist circuit and each propel circuit. One of the other two pumps is used in the boom hoist circuit, and the other is used in the swing circuit.
 Control: Full-flow hydraulic control system for infinitely variable pressure to front and rear drums, boom hoist brakes and clutches. Controls respond instantly to the touch, delivering smooth function operation.
 Cooling: Oil-to-air heat exchanger (plate-fin type)
 Filtration: Full-flow and bypass type with replaceable element
 Electrical system: All wiring corded for easy servicing, individual fused branch circuits.

Max. relief valve pressure:
 Load hoist, boom hoist and propel system:
 31.9 MPa {325 kgf/cm²}
 Swing system: 27.5 MPa {280 kgf/cm²}
 Control system: 7.0 MPa {71.3 kgf/cm²}
 Reservoir capacity: 550 liters



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.
 Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.
 Drum lock: External ratchet for locking drum.
 Drum: Double drum, grooved for 22 mm dia. wire rope.
 Line speed: Double line on first drum layer
 Hoisting/Lowering: 54 m/min
 Diameter of wire ropes
 Boom guy line: 30 mm
 Boom hoist reeving: 16 parts of 22 mm dia. high strength wire rope
 Boom backstops: Telescopic type with spring bumper
 Required for all boom lengths



Load Hoist System

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.
 Negative Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional item.)
 Drum lock: External ratchet for locking drum
 Drums:
 Front drum:
 617.4 mm P.C.D. x 833.7 mm Lg. wide drum, grooved for 25.4 mm wire rope. Rope capacity is 430 m working length and 510 m storage length.
 Rear drum:
 617.1 mm P.C.D. x 833.7 mm Lg. wide drum, grooved for 25.4 mm wire rope. Rope capacity is 335 m working length and 510 m storage length.
 Note: Rope lengths listed above denote drum capacity and may differ from actual rope lengths supplied when machinery is shipped.
 Line speed: Single line on the first drum layer
 Hoisting/Lowering: 100 m/min
 Line Pull (Single-line):
 Rated line pull: 132 kN {13.5 tf}



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers (2 sets), the swing system provides 360° rotation.
 Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.
 Swing circle: Single-row ball bearing with an integral internally cut swing gear.
 Swing lock: Manually, four position lock for transportation
 Swing speed: 2.6 min⁻¹{rpm}



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine with low noise level. Complies with European Noise Regulations.
 Counterweight: 60.0 ton

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader



Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a head-rest and armrests, and intermittent wiper and window washer (skylight and front window).

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, foot-rest, shoe tray

Controls:

Four adjustable levers for front drum, rear drum, boom drum and swing controls, and boom hoist pedal.



Lower Structure

Steel-welded carbody with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Carbody weight: 20.0 ton

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoes (flat): 64 shoes, 1,070 mm wide each crawler

Max. travel speed: 1.1/0.7 km/h

Max. gradeability: 30%



Weight

Including upper and lower machine, 60.0 ton counterweight and 20.0 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Specification	Weight	Ground pressure
Crane boom	Approx. 164 ton,	103 kPa {1.06 kgf/cm ² }
Luffing jib	Approx. 171 ton,	95 kPa {0.97 kgf/cm ² }



Attachment

Boom and Jib:

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections.

Boom and Jib Length

	Min. Length (Min. Combination)	Max. Length (Max. Combination)
Crane Boom	15.2 m	85.3 m
Luffing Boom	15.2 m	54.9 m
Long Boom	61.0 m	85.3 m
Fixed Jib	24.4 m + 12.2 m	73.2 m + 30.5 m
Luffing Jib	21.3 m + 21.3 m	54.9 m + 51.8 m

Main Specifications (Model: CKE 1800-1F)

Heavy Duty Crane Boom	
Max. Lifting Capacity	180 t/3.75 m
Max. Length	42.7 m
Crane Boom	
Max. Lifting Capacity	160 t/4.4 m
Max. Length	85.3 m
Luffing Boom	
Max. Lifting Capacity	110 t/5.2 m
Max. Length	54.9 m
Long Boom	
Max. Lifting Capacity	40.1 t/12.0 m
Max. Length	85.3 m
Fixed Jib	
Max. Lifting Capacity	26.8 t/15.2 m
Max. Length	30.5 m
Max. Combination	73.2 m + 30.5 m
Luffing Jib	
Max. Lifting Capacity	48.6 t/9.14 m
Jib Length	21.3 m ~ 51.8 m
Max. Combination	54.9 m + 51.8 m
Luffing Angle	60° ~ 88°
Working Speed	
Swing Speed	2.6 min ⁻¹ {rpm}
Travel Speed	1.1/0.7 km/h

Power Plant	
Model	Hino P11C-UN
Engine Output	247 kW/2,000 min ⁻¹ {rpm}
Fuel Tank Capacity	400 liters
Main & Aux. Winch	
Max. Line Speed	100 m/min (1st layer)
Rated Line Pull	132 kN {13.5 tf}
Wire Rope Diameter	25.4 mm
Wire Rope Length	430 m (Main) 335 m (Aux.)
Brake Type	Spring set hydraulically released (Negative)
Free Fall Brake	Wet-type multiple disc brake (Optional)
Hydraulic System	
Pumps	4 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm ² }
Hydraulic Tank Capacity	550 liters
Self Erection Device	Standard
Weight	
Operating Weight*	Approx. 164 t
Ground Pressure*	103 kPa {1.06 kgf/cm ² }
Counterweight	60.0 t (Upper), 20.0 t (Lower)
Transportation Weight**	Approx. 44.0 t

* Including upper and lower machine, 60.0 ton counterweight, 20.0 ton carbody weight, basic boom, hook, and other accessories.

** Base machine with boom base, trans-lifter, main and aux. winches (non-freefall) including wire rope, self removal device.

Units are SI units. { } indicates conventional units.

Crawler Crane

55t
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80t
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All Terrain Crane

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Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

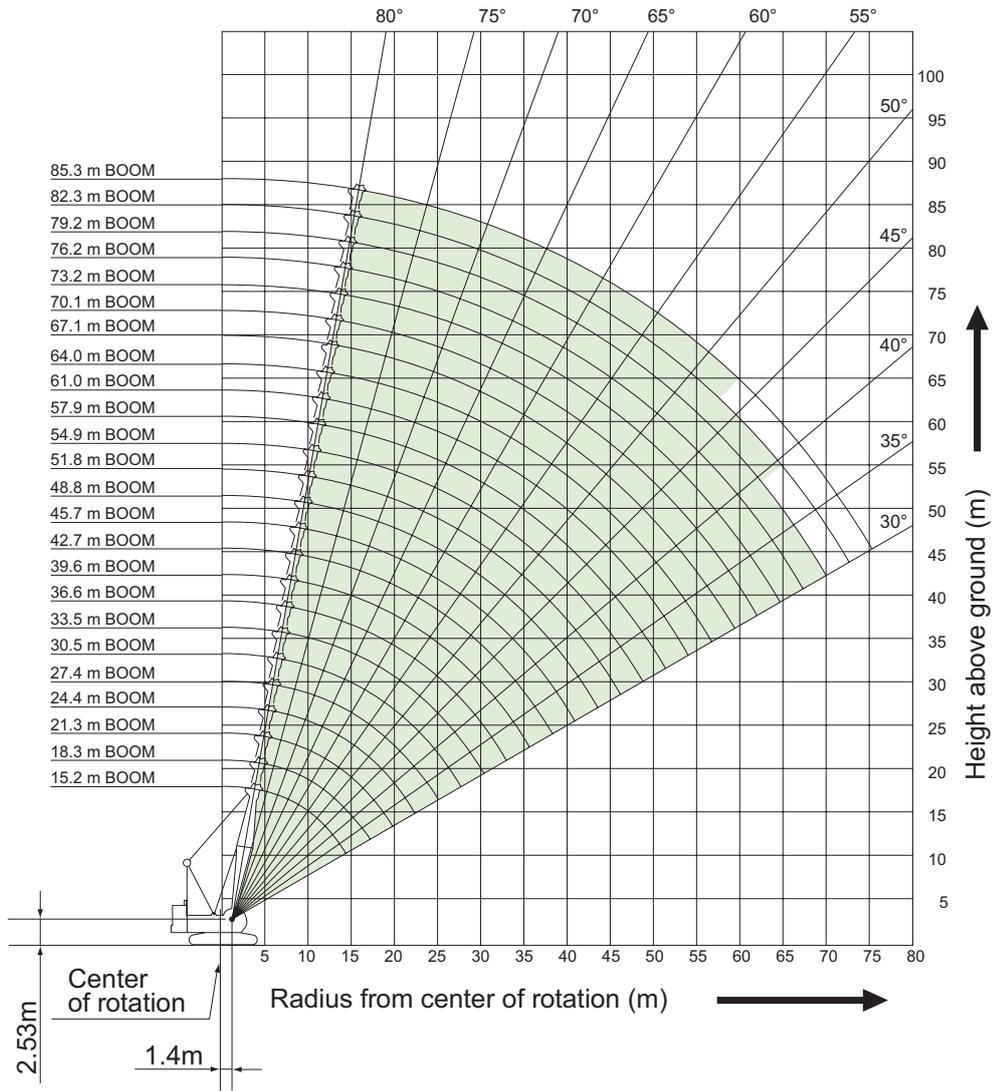
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Crane Boom Working Ranges



NOTES:

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Deduct weight of hook block(s), slings and all other load handling accessories from main boom or auxiliary sheave ratings shown.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. The boom should be erected over the front of crawlers, not laterally.
13. Ratings shown in are determined by the strength of the boom or other structural component.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Crane boom ratings: Deduct weight of hook block(s), slings, and all other load handling accessories from crane boom ratings shown.
16. Auxiliary sheave ratings: Deduct 0.6 ton (weight of auxiliary sheave frame), weight of hook block(s), slings and all other load handling accessories from crane boom ratings shown, but should not exceed 26.8 tons.
Crane boom lengths for auxiliary sheave mounting are 15.2 m to 82.3 m.
17. Crane boom ratings with auxiliary sheave: Deduct 0.6 ton, weight of hook block(s), slings and all other load handling accessories from crane boom ratings shown. Minimum ratings is 1.6 tons.
18. Heavy duty crane boom ratings: Deduct weight of hook block(s), slings and all other load handling accessories from crane boom ratings shown.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Crane Boom Lifting Capacity

Unit: metric ton

Counterweight: 60.0 t, Carbody weight: 20.0 t

Working radius (m) \ Boom Length (m)	12.2*	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	Working radius (m) \ Boom Length (m)
3.0	3.75m/180.0														3.0
4.0	171.5	4.4m/160.0	4.9m/144.2												4.0
5.0	140.5	141.6	141.6	5.4m/131.4	5.9m/121.3										5.0
6.0	119.1	119.3	119.3	119.3	119.3	6.4m/112.0	6.9m/103.9								6.0
7.0	102.0	102.7	102.7	102.7	102.7	102.7	102.5	7.4m/97.1	7.9m/90.6						7.0
8.0	88.1	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	8.4m/80.3	8.9m/76.8				8.0
9.0	76.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	78.4	76.3	9.4m/70.6			9.0
10.0	67.7	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	70.2	68.4	66.6	10.0m/65.4	10.5m/60.7	10.0
12.0	51.4	58.8	58.7	58.6	58.5	58.4	58.3	58.2	58.2	57.8	56.5	55.1	54.0	52.8	12.0
14.0	12.4m/50.0	47.2	47.7	47.6	47.4	47.3	47.2	47.0	47.0	46.9	46.7	46.5	46.0	45.0	14.0
16.0		14.8m/41.9	40.2	40.1	39.9	39.8	39.6	39.4	39.4	39.3	39.1	38.9	38.8	38.6	16.0
18.0			17.5m/35.9	34.4	34.2	34.1	34.0	33.7	33.7	33.6	33.3	33.2	33.1	32.9	18.0
20.0				30.1	29.8	29.6	29.5	29.3	29.2	29.1	28.9	28.7	28.6	28.4	20.0
22.0				20.1m/29.9	26.5	26.3	26.2	25.9	25.8	25.7	25.5	25.3	25.3	25.0	22.0
24.0					22.7m/25.4	23.6	23.4	23.2	23.0	22.9	22.7	22.5	22.4	22.2	24.0
26.0						25.4m/22.0	21.1	20.9	20.7	20.6	20.4	20.2	20.1	19.9	26.0
28.0							28.0m/19.2	19.0	18.8	18.7	18.5	18.3	18.2	18.0	28.0
30.0								17.4	17.2	17.1	16.9	16.7	16.6	16.4	30.0
32.0								30.7m/16.9	15.8	15.7	15.4	15.2	15.1	14.9	32.0
34.0									33.3m/15.0	14.4	14.2	14.0	13.9	13.6	34.0
36.0										35.9m/13.4	13.1	13.0	12.8	12.6	36.0
38.0											12.2	12.1	11.8	11.7	38.0
40.0											38.6m/12.0	11.1	11.0	10.7	40.0
42.0												41.2m/10.7	10.3	10.0	42.0
44.0													43.8m/9.7	9.4	44.0
46.0														8.7	46.0
48.0														46.5m/8.6	48.0
Reeves	14	12	12	10	10	9	8	8	7	6	6	6	5	5	Reeves

* Values of 12.2 m boom length are lifting capacities for heavy duty crane boom.

Working radius (m) \ Boom Length (m)	54.9	57.9	61.0	64.0	67.1	70.1	73.2	76.2	79.2	82.3	85.3	Working radius (m) \ Boom Length (m)
10.0	11.0m/56.4	11.5m/52.4										10.0
12.0	51.5	50.5	12.0m/48.3	12.5m/44.7	13.0m/41.2	13.5m/38.0						12.0
14.0	43.9	43.2	42.3	41.5	40.1	37.5	14.0m/34.5	14.5m/31.8	15.0m/29.0	15.5m/25.9		14.0
16.0	38.1	37.5	36.7	36.1	35.3	34.8	32.2	30.1	27.9	25.3	16.1m/21.0	16.0
18.0	32.7	32.7	32.3	31.8	31.1	30.7	29.8	27.8	25.9	22.9	19.0	18.0
20.0	28.3	28.2	28.0	27.9	27.7	27.3	26.7	25.8	23.9	20.9	17.2	20.0
22.0	24.9	24.8	24.6	24.5	24.4	24.2	24.0	23.6	22.0	19.1	15.6	22.0
24.0	22.1	22.0	21.9	21.7	21.6	21.4	21.4	21.3	20.3	17.5	14.2	24.0
26.0	19.7	19.7	19.4	19.4	19.2	19.0	19.0	18.9	18.7	16.0	13.0	26.0
28.0	17.8	17.7	17.5	17.5	17.3	17.1	17.0	17.0	16.8	14.7	11.8	28.0
30.0	16.2	16.1	15.9	15.8	15.6	15.5	15.4	15.3	15.2	13.5	10.8	30.0
32.0	14.7	14.6	14.4	14.3	14.2	14.0	13.9	13.8	13.7	12.4	9.9	32.0
34.0	13.5	13.4	13.2	13.1	12.9	12.8	12.7	12.6	12.4	11.4	9.0	34.0
36.0	12.4	12.3	12.1	12.0	11.9	11.7	11.6	11.5	11.3	10.4	8.2	36.0
38.0	11.4	11.3	11.2	11.1	10.9	10.8	10.7	10.5	10.3	9.6	7.4	38.0
40.0	10.6	10.4	10.2	10.2	10.0	9.8	9.7	9.6	9.4	8.7	6.7	40.0
42.0	9.9	9.7	9.5	9.4	9.3	9.1	9.0	8.9	8.7	8.0	6.0	42.0
44.0	9.2	9.0	8.9	8.8	8.5	8.4	8.3	8.2	8.0	7.3	5.4	44.0
46.0	8.5	8.4	8.2	8.1	7.9	7.7	7.6	7.5	7.4	6.6	4.8	46.0
48.0	8.0	7.9	7.6	7.6	7.4	7.2	7.1	7.0	6.8	6.0	4.2	48.0
50.0	49.1m/7.7	7.4	7.1	7.0	6.9	6.7	6.6	6.5	6.3	5.4	3.7	50.0
52.0		51.8m/6.9	6.7	6.6	6.4	6.2	6.0	5.9	5.8	4.8	3.2	52.0
54.0			6.2	6.2	6.0	5.7	5.6	5.5	5.3	4.3	2.7	54.0
56.0			54.4m/6.1	5.8	5.5	5.3	5.2	5.0	4.8	3.8	2.2	56.0
58.0				57.0m/5.5	5.1	4.9	4.7	4.6	4.4	3.3	1.8	58.0
60.0					59.7m/4.8	4.5	4.4	4.2	4.0	2.8	59.0m/1.6	60.0
62.0						4.2	4.0	3.9	3.7	2.4		62.0
64.0						62.3m/4.1	3.7	3.6	3.3	1.9		64.0
66.0							65.0m/3.5	3.2	2.9	65.0m/1.7		66.0
68.0								67.6m/3.0	2.4			68.0
70.0									70.0m/2.0			70.0
reeves	5	4	4	4	4	3	3	3	3	2	2	reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

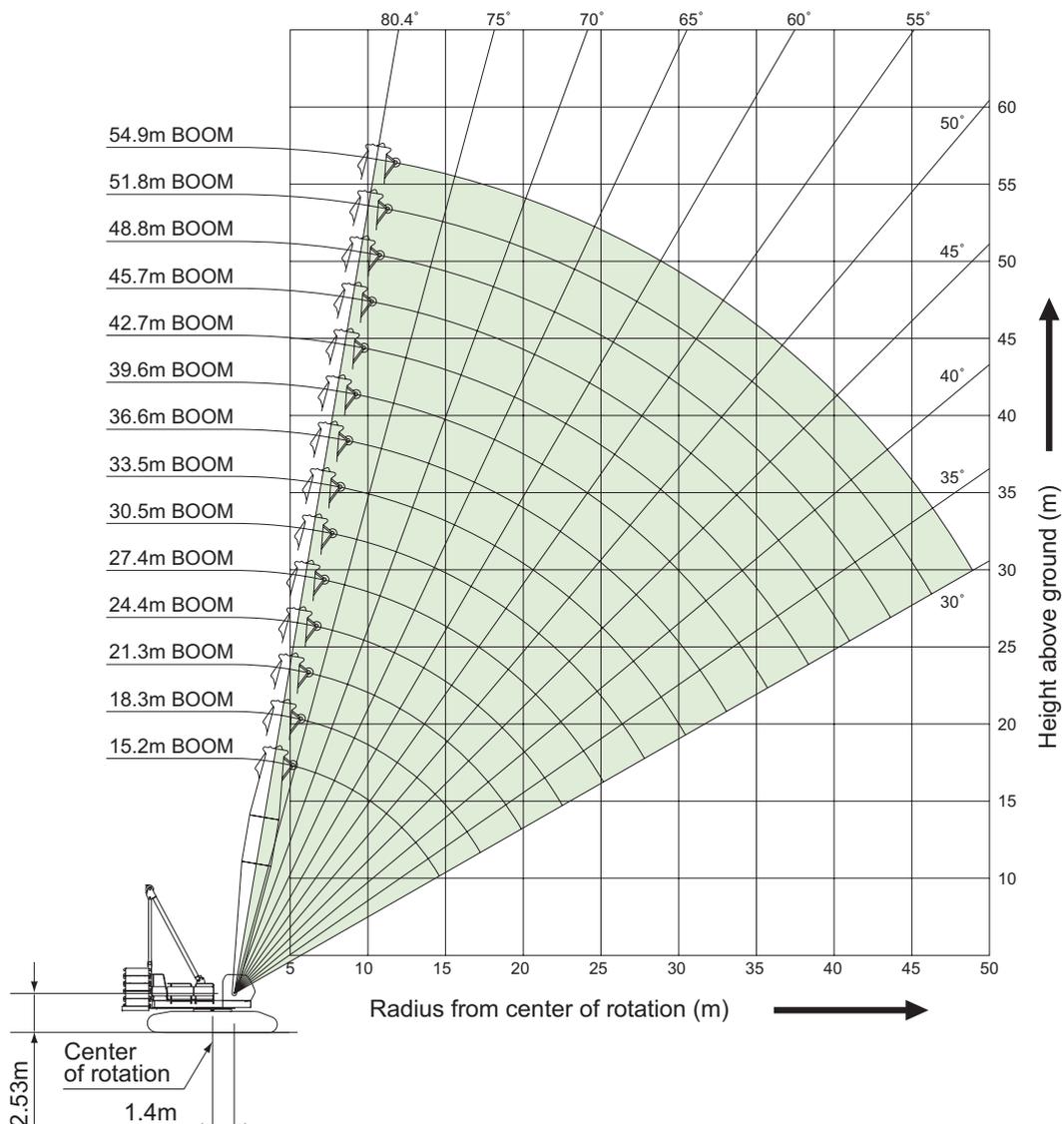
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Luffing Boom Working Ranges



NOTES:

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Deduct weight of hook block(s), slings and all other load handling accessories from long boom or jib ratings shown.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/ jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. The boom should be erected over the front of crawlers, not laterally.
13. Ratings shown in are determined by the strength of the boom or other structural component.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Luffing boom ratings: Deduct weight of hook block(s), slings and all other load handling accessories from luffing boom ratings shown.
16. Auxiliary sheave ratings: Deduct 0.6 ton (weight of auxiliary sheave frame), weight of hook block(s), slings and all other load handling accessories from luffing boom ratings shown, but should not exceed 26.8 tons.
Luffing boom lengths for auxiliary sheave mounting are 15.2 m to 54.9 m.
17. Luffing boom ratings with auxiliary sheave: Deduct 0.6 ton, weight of hook block(s), slings and all other load handling accessories from luffing boom ratings shown.

180t
CKE1800

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Luffing Boom Lifting Capacity

Unit: metric ton

Counterweight: 60.0 t, Carbody weight: 20.0 t

Working radius (m) \ Boom Length (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	54.9	Working radius (m) \ Boom Length (m)
5.0	5.2m /110.0	5.7m /107.0													5.0
6.0	107.0	106.7	6.2m /106.2	6.8m /103.7											6.0
7.0	101.3	101.2	101.1	101.0	7.3m /96.8	7.8m /90.4									7.0
8.0	89.8	89.7	89.6	89.5	89.4	89.3	8.3m /85.5	8.8m /80.3							8.0
9.0	79.4	79.3	79.3	79.1	79.0	79.0	78.8	78.7	9.3m /75.5	9.8m /69.3					9.0
10.0	71.2	71.1	71.0	70.9	70.8	70.7	70.6	70.5	69.4	67.5	10.3m /64.0	10.8m /59.3	11.3m /55.1	11.8m /51.3	10.0
12.0	57.5	57.3	57.2	57.0	56.9	56.8	56.6	56.6	56.5	55.5	54.2	52.9	51.6	50.4	12.0
14.0	46.2	46.4	46.3	46.1	46.0	45.9	45.7	45.7	45.6	45.4	45.2	44.8	43.7	42.7	14.0
16.0	15.2m /39.2	39.0	38.9	38.6	38.5	38.4	38.2	38.1	38.0	37.8	37.7	37.6	37.4	36.9	16.0
18.0		17.8m /33.6	33.2	32.9	32.8	32.7	32.5	32.4	32.3	32.1	32.0	31.9	31.7	31.5	18.0
20.0			29.2	28.7	28.6	28.4	28.2	28.1	28.0	27.8	27.7	27.6	27.4	27.2	20.0
22.0			20.5m /28.0	25.3	25.2	25.1	24.8	24.7	24.6	24.4	24.2	24.2	24.0	23.8	22.0
24.0				23.1m /23.7	22.5	22.3	22.1	22.0	21.9	21.6	21.5	21.4	21.2	21.0	24.0
26.0					25.7m /20.4	20.1	19.8	19.7	19.6	19.3	19.2	19.1	18.9	18.7	26.0
28.0						18.2	17.9	17.8	17.7	17.5	17.3	17.2	17.0	16.8	28.0
30.0						28.4m /17.8	16.3	16.2	16.1	15.8	15.7	15.6	15.4	15.2	30.0
32.0							31.0m /15.6	14.8	14.7	14.4	14.3	14.2	13.9	13.8	32.0
34.0								33.7m /13.8	13.5	13.3	13.1	13.0	12.7	12.6	34.0
36.0									12.5	12.2	12.0	11.9	11.7	11.5	36.0
38.0									36.3m /12.3	11.2	11.0	10.9	10.7	10.5	38.0
40.0										38.9m /10.9	10.3	10.2	9.9	9.7	40.0
42.0											41.6m /9.7	9.4	9.1	9.0	42.0
44.0												8.8	8.5	8.3	44.0
46.0												44.2m /8.6	7.8	7.7	46.0
48.0													46.9m /7.6	7.1	48.0
50.0														49.5m /6.7	50.0
Reeves	8	8	8	8	8	7	7	6	6	6	5	5	5	4	Reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

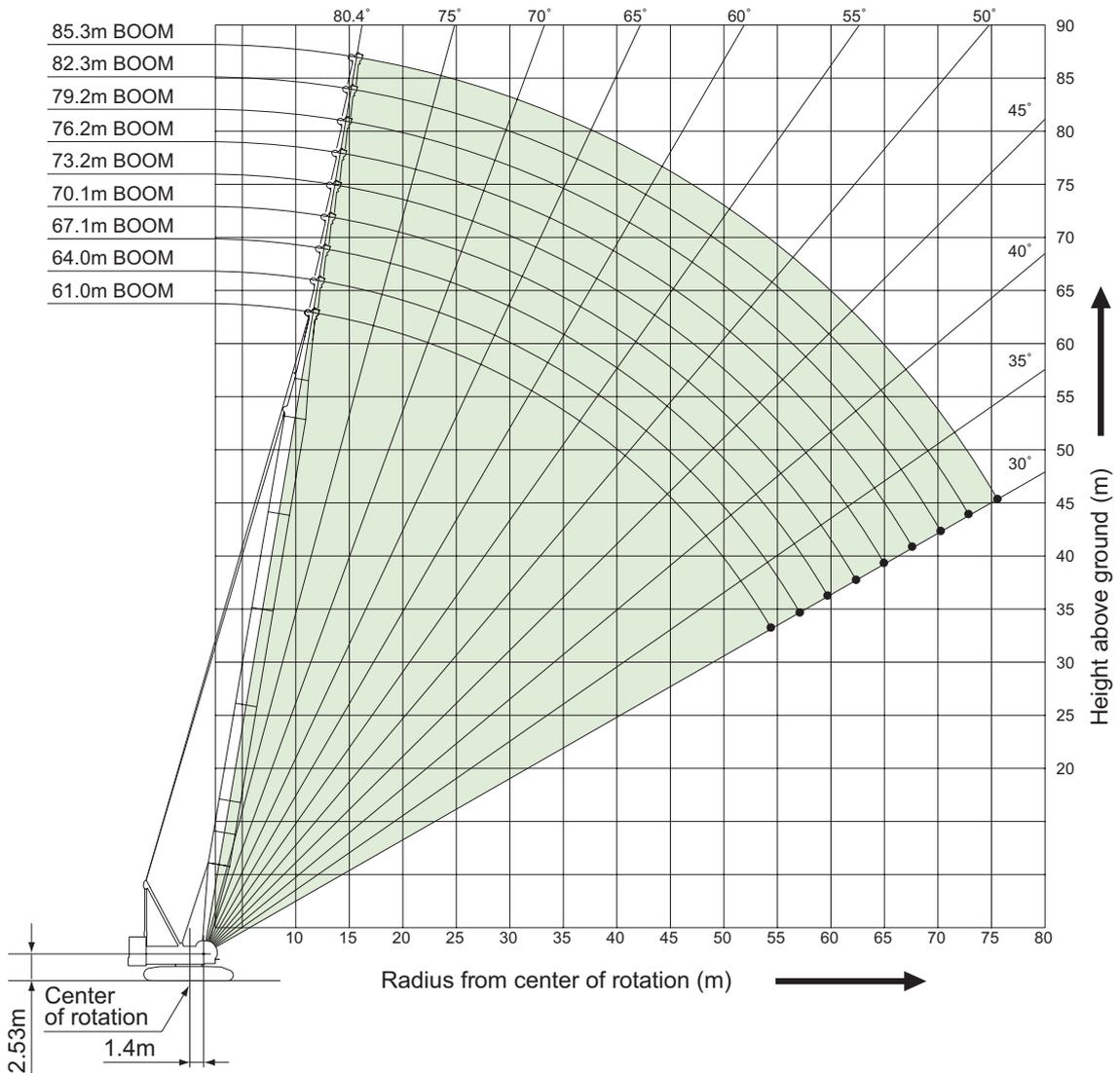
Bull Dozer

**Vibro Roller
Baby Roller**

Motor Grader

Working Ranges And Lifting Capacities

Long Boom Working Ranges



NOTES:

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Deduct weight of hook block(s), slings and all other load handling accessories from long boom or jib ratings shown.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/ jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. Ratings shown in are determined by the strength of the boom or other structural component.
13. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
14. Long boom ratings: Deduct weight of hook block(s), slings and all other load handling accessories from long boom ratings shown.
15. Auxiliary sheave ratings: Deduct 0.4 ton (weight of auxiliary sheave frame), weight of hook block(s), slings and all other load handling accessories from long boom ratings shown, but should not exceed 13.5 tons. Long boom length for auxiliary sheave mounting are 61.0 m to 79.2 m.

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Long Boom Lifting Capacity

Unit: metric ton

Counterweight: 60.0 t,
Carbody weight: 20.0 t

Working radius (m) \ Boom Length (m)	61.0	64.0	67.1	70.1	73.2	76.2	79.2	82.3	85.3	Working radius (m) \ Boom Length (m)
10.0	11.9m /40.1									10.0
12.0	40.1	12.4m /37.8	12.9m /35.0	13.4m /33.2	13.9m /31.6					12.0
14.0	37.2	35.8	34.5	32.8	31.5	14.4m /27.9	14.9m /23.9	15.5m /20.7		14.0
16.0	34.1	33.1	32.1	30.6	29.5	26.5	23.2	20.4	20.3	16.0
18.0	31.0	30.3	29.6	28.4	27.5	24.9	21.9	19.4	19.3	18.0
20.0	27.9	27.4	27.1	26.2	25.5	23.3	20.6	18.4	18.3	20.0
22.0	24.9	24.7	24.5	24.0	23.5	21.7	19.5	17.4	17.3	22.0
24.0	22.1	22.0	21.9	21.8	21.5	20.1	18.3	16.4	16.4	24.0
26.0	19.8	19.7	19.6	19.6	19.5	18.5	17.1	15.5	15.5	26.0
28.0	17.9	17.8	17.7	17.6	17.5	17.0	16.0	14.7	14.7	28.0
30.0	16.3	16.2	16.1	16.0	15.9	15.5	14.9	13.9	13.9	30.0
32.0	14.9	14.8	14.6	14.6	14.5	14.1	13.7	13.0	13.0	32.0
34.0	13.6	13.5	13.4	13.4	13.2	12.9	12.8	12.3	12.3	34.0
36.0	12.6	12.5	12.3	12.3	12.2	11.9	11.8	11.5	11.5	36.0
38.0	11.6	11.5	11.4	11.3	11.2	10.9	10.9	10.8	10.8	38.0
40.0	10.8	10.7	10.5	10.5	10.4	10.1	10.0	10.0	10.0	40.0
42.0	10.0	9.9	9.8	9.7	9.6	9.4	9.3	9.3	9.3	42.0
44.0	9.3	9.2	9.1	9.0	8.9	8.7	8.6	8.6	8.6	44.0
46.0	8.7	8.6	8.5	8.4	8.3	8.1	8.0	8.0	8.0	46.0
48.0	8.2	8.0	7.9	7.9	7.7	7.5	7.4	7.4	7.4	48.0
50.0	7.7	7.5	7.4	7.3	7.2	7.0	6.9	6.9	6.9	50.0
52.0	7.2	7.1	6.9	6.9	6.7	6.5	6.5	6.5	6.5	52.0
54.0	6.8	6.6	6.5	6.4	6.3	6.1	6.0	6.0	6.0	54.0
56.0	54.5m /6.7	6.3	6.1	6.1	5.9	5.7	5.7	5.7	5.6	56.0
58.0		57.2m /6.0	5.8	5.7	5.6	5.4	5.3	5.3	5.2	58.0
60.0			59.8m /5.5	5.4	5.2	5.0	5.0	5.0	4.8	60.0
62.0				5.0	4.9	4.7	4.6	4.6	4.4	62.0
64.0				62.4m /5.0	4.6	4.4	4.4	4.3	4.1	64.0
66.0					65.1m /4.5	4.2	4.1	4.0	3.8	66.0
68.0						67.7m /3.9	3.8	3.7	3.5	68.0
70.0							3.5	3.5	3.2	70.0
72.0							70.4m /3.4	3.2	3.0	72.0
74.0								73.0m /3.1	2.8	74.0
76.0									75.6m /2.6	76.0
reeves	3	3	3	3	3	3	2	2	2	reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

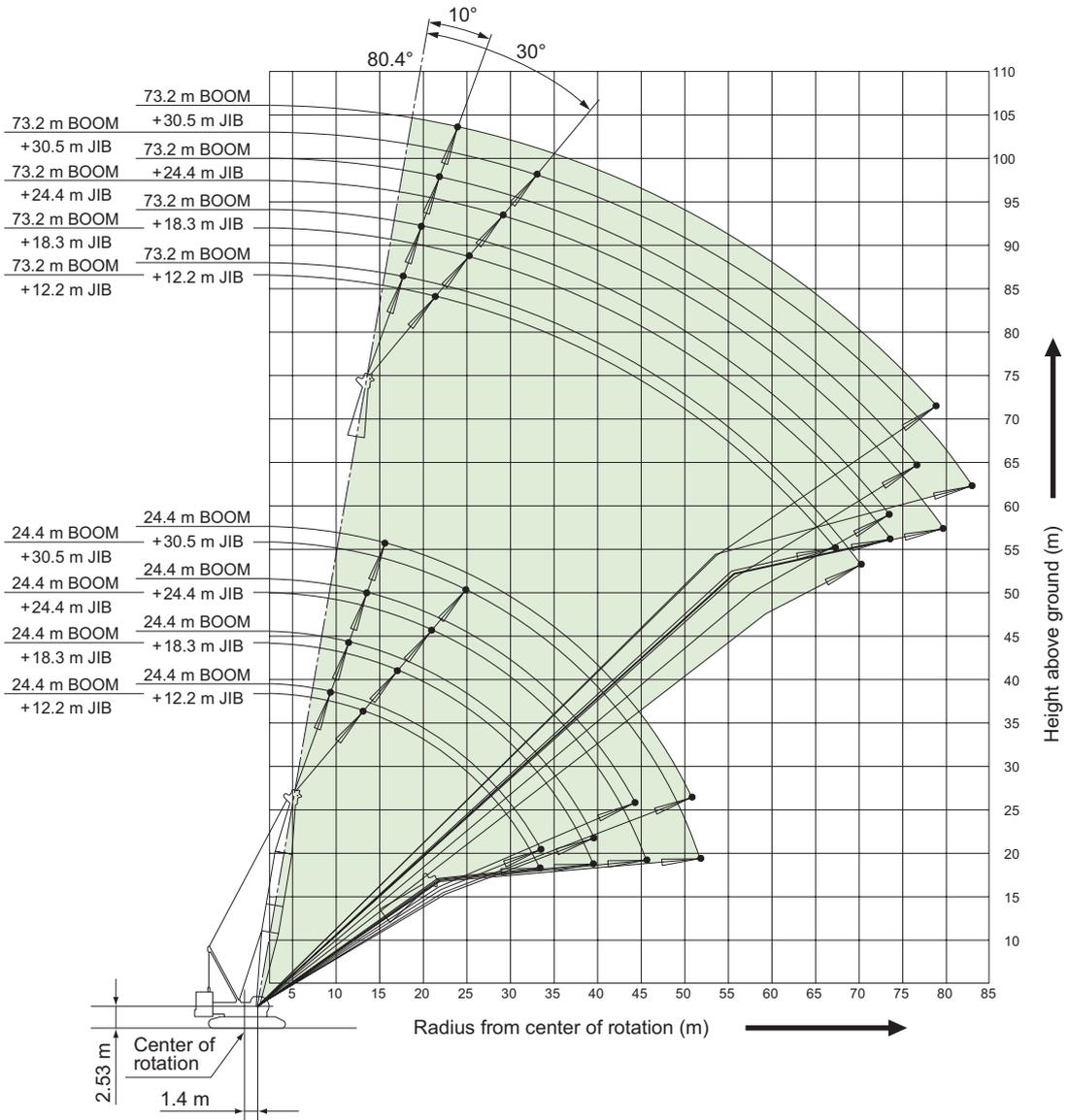
Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Fixed Jib Working Ranges

Jib Offset Angle: 10°, 30°



NOTES:

1. Ratings according to EN 13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Deduct weight of hook block (s), slings and all other load handling accessories from fixed jib ratings shown.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. Ratings shown in are determined by the strength of the boom or other structural component.
13. The boom should be erected over the front of the crawlers not laterally.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Fixed jib ratings: Deduct weight of hook block (s), slings, and all other load handling accessories from jib ratings shown.
16. Boom lengths for jib mounting are 24.4 m to 73.2 m.
17. One part of line on hook is not allowed to use for 12.2 m jib length with offset angle 10 degrees.

Crawler Crane

- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2

Rough Terrain Crane

- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL
- 60t GR-600EX
- 80t GR-800EX

All Terrain Crane

- 160t ATF160G-5
- 200t LTM1200-5.1

Aerial Platform

- 220t ATF220G-5

Boom Lift

Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Fixed Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

Jib Offset Angle: 10°

Counterweight: 60.0 t, Carbody weight: 20.0 t

Boom length (m)	24.4				33.5				42.7				51.8				Boom length (m)	
Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
9.0	9.8m/26.8																9.0	
10.0	26.8	11.0m/19.5			11.0m/26.8												10.0	
12.0	26.5	19.3	12.8m/10.1		26.3	12.8m/19.4			12.2m/26.8								12.0	
14.0	23.1	18.9	9.9	14.0m/6.1	24.3	19.1	14.6m/10.1		26.0	14.6m/19.3			14.0m/26.8				14.0	
16.0	20.7	18.1	9.7	5.9	22.8	18.7	9.9	16.8m/6.0	24.6	19.1	16.8m/10.0		26.0	16.8m/19.2			16.0	
18.0	19.2	17.5	9.5	5.8	21.4	18.2	9.7	5.9	23.2	18.6	9.9	18.3m/6.0	24.6	18.9	18.3m/9.9	19.8m/6.0	18.0	
20.0	18.0	16.2	9.3	5.6	20.1	17.6	9.5	5.8	21.9	18.1	9.7	5.9	23.4	18.5	9.8	6.0	20.0	
22.0	16.9	14.3	8.8	5.3	19.1	16.7	9.3	5.6	20.8	17.7	9.5	5.8	22.3	18.1	9.7	5.9	22.0	
24.0	16.0	13.2	8.4	5.0	18.1	15.4	9.0	5.4	19.8	17.2	9.4	5.7	21.3	17.8	9.5	5.8	24.0	
26.0	15.2	12.2	8.1	4.8	17.1	14.3	8.7	5.2	18.9	16.1	9.2	5.5	20.0	17.4	9.4	5.6	26.0	
28.0	14.4	11.3	7.8	4.6	16.4	13.3	8.3	4.9	18.0	15.1	8.8	5.3	18.1	16.7	9.3	5.5	28.0	
30.0	13.7	10.6	7.4	4.4	15.7	12.5	8.0	4.7	16.8	14.2	8.6	5.0	16.4	15.7	9.0	5.3	30.0	
34.0	33.5m/12.7	9.4	6.9	4.0	14.5	11.1	7.5	4.4	14.2	12.6	8.0	4.7	13.7	13.9	8.5	4.9	34.0	
38.0		8.4	6.5	3.7	12.7	10.0	7.1	4.0	12.2	11.4	7.6	4.4	11.6	11.8	8.0	4.6	38.0	
42.0		39.6m/8.2	6.2	3.4	39.6m/12.0	9.1	6.7	3.8	10.5	10.4	7.2	4.1	9.9	10.2	7.6	4.4	42.0	
46.0			44.2m/6.1	3.2		45.7m/8.4	6.4	3.5	9.2	9.4	6.8	3.9	8.6	8.8	7.3	4.1	46.0	
50.0				3.0			6.1	3.3	48.8m/8.4	8.3	6.5	3.6	7.5	7.7	6.9	3.9	50.0	
54.0				50.3m/3.0			51.8m/6.1	3.2		7.3	6.3	3.4	6.5	6.8	6.7	3.7	54.0	
58.0									57.9m/3.0		54.9m/7.1	6.1	3.3	57.9m/5.8	5.9	6.2	3.5	58.0
62.0												61.0m/6.0	3.1		61.0m/5.4	5.5	3.4	62.0
66.0													3.0			4.9	3.2	66.0
70.0													67.1m/3.0		67.1m/4.7	3.1	70.0	
74.0																73.2m/3.0	74.0	
Reeves	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	Reeves	

Boom length (m)	61.0				70.1				73.2				Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
16.0	16.8m/26.6				16.8m/21.7								16.0
18.0	25.9	18.3m/19.1	19.8m/9.9		21.4	19.8m/19.1			18.3m/19.1	19.8m/18.7			18.0
20.0	24.7	18.8	9.9	21.3m/6.0	21.0	19.1	21.3m/9.9		18.8	18.7	21.3m/9.9		20.0
22.0	23.6	18.5	9.8	5.9	20.6	18.7	9.9	22.9m/5.9	18.4	18.3	9.9	22.9m/6.0	22.0
24.0	21.8	18.1	9.7	5.9	20.2	18.4	9.8	5.9	18.0	17.9	9.8	5.9	24.0
26.0	19.6	17.8	9.5	5.7	19.1	18.1	9.7	5.8	17.6	17.5	9.7	5.8	26.0
28.0	17.6	17.3	9.4	5.6	17.1	17.4	9.5	5.7	16.9	16.9	9.5	5.7	28.0
30.0	15.9	16.1	9.3	5.5	15.4	15.7	9.4	5.6	15.2	15.6	9.4	5.6	30.0
34.0	13.2	13.4	8.8	5.2	12.7	13.0	9.2	5.4	12.5	12.8	9.2	5.4	34.0
38.0	11.1	11.3	8.4	4.9	10.6	10.9	8.7	5.1	10.4	10.7	8.8	5.2	38.0
42.0	9.4	9.7	8.0	4.6	8.9	9.2	8.3	4.8	8.8	9.0	8.4	4.9	42.0
46.0	8.0	8.3	7.6	4.4	7.6	7.8	7.9	4.6	7.3	7.6	8.0	4.6	46.0
50.0	6.9	7.2	7.3	4.1	6.5	6.7	7.1	4.3	6.3	6.5	6.8	4.4	50.0
54.0	6.0	6.2	6.5	3.9	5.5	5.8	6.1	4.1	5.3	5.5	5.9	4.2	54.0
58.0	5.2	5.4	5.7	3.7	4.6	4.9	5.3	3.9	4.4	4.6	5.1	4.0	58.0
62.0	4.4	4.7	5.0	3.5	3.8	4.1	4.5	3.8	3.5	3.8	4.2	3.8	62.0
66.0	64.0m/4.1	4.0	4.4	3.4	3.1	3.4	3.8	3.6	2.8	3.0	3.5	3.6	66.0
70.0		3.4	3.7	3.3	2.4	2.7	3.1	3.3	2.1	2.4	2.8	2.9	70.0
74.0		70.1m/3.4	3.1	3.2	73.2m/2.0	2.1	2.5	2.7	70.1m/2.1	73.2m/2.0	2.3	2.4	74.0
78.0			76.2m/2.9	2.8		76.2m/1.9	2.0	2.2			76.2m/2.0	77.7m/2.0	78.0
82.0				2.3			79.2m/1.9	80.8m/1.9					82.0
86.0				82.3m/2.3									86.0
Reeves	2	2	1	1	2	2	1	1	2	2	1	1	Reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

※ One part of line on hook is not allowed to use for 12.2 m jib length with offset angle 10 degrees.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Unit: metric ton

Jib Offset Angle: 30°

Counterweight: 60.0 t, Carbody weight: 20.0 t

Boom length (m)	24.4				33.5				42.7				51.8				Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
12.0	13.4m/17.2																12.0
14.0	17.2				14.6m/17.2												14.0
16.0	16.0	16.8m/12.8			16.8				16.8m/17.1								16.0
18.0	15.2	12.2			16.1	18.3m/12.8			16.7	19.8m/12.8			18.3m/17.1				18.0
20.0	14.3	11.2	21.3m/7.5		15.6	12.1			16.1	12.8			16.6	21.3m/12.8			20.0
22.0	13.5	10.5	7.4		14.8	11.4	22.9m/7.5		15.7	12.1			16.2	12.6			22.0
24.0	12.7	9.8	7.2	24.4m/4.1	14.1	10.8	7.4	25.9m/4.1	15.2	11.4	24.4m/7.5		15.8	12.0	25.9m/7.5		24.0
26.0	12.1	9.3	7.0	4.0	13.4	10.2	7.2	4.1	14.5	10.9	7.4	27.4m/4.1	15.3	11.5	7.5		26.0
28.0	11.6	8.8	6.8	3.9	12.8	9.7	7.0	4.0	13.9	10.4	7.2	4.1	14.8	11.0	7.4	29.0m/4.1	28.0
30.0	11.2	8.3	6.5	3.7	12.3	9.2	6.8	3.9	13.4	9.9	7.1	4.0	14.2	10.5	7.2	4.0	30.0
34.0	33.5m/10.6	7.6	5.9	3.4	11.5	8.4	6.4	3.6	12.5	9.1	6.8	3.8	13.3	9.8	6.9	3.9	34.0
38.0		7.1	5.4	3.3	36.6m/11.1	7.8	5.9	3.4	11.7	8.5	6.4	3.5	11.9	9.1	6.7	3.7	38.0
42.0		39.6m/7.0	5.0	3.1		7.4	5.5	3.3	10.7	8.0	5.9	3.4	10.2	8.6	6.3	3.5	42.0
46.0			45.7m/4.8	3.0		42.7m/7.3	5.2	3.1	45.7m/9.4	7.5	5.6	3.3	8.8	8.1	5.9	3.4	46.0
50.0				2.9			48.8m/5.0	3.0		7.2	5.3	3.1	7.6	7.7	5.6	3.2	50.0
54.0				51.8m/2.9				2.9		51.8m/7.1	5.0	3.0	51.8m/7.2	7.1	5.4	3.2	54.0
58.0								54.9m/2.9			57.9m/4.9	2.9		57.9m/6.2	5.1	3.0	58.0
62.0												2.9			4.9	3.0	62.0
66.0												64.0m/2.9			64.0m/4.9	2.9	66.0
70.0																2.9	70.0
74.0																70.1m/2.9	74.0
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	Reeves

Boom length (m)	61.0				70.1				73.2				Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
18.0	19.8m/17.1												18.0
20.0	17.0				21.3m/17.1				21.3m/17.2				20.0
22.0	16.6	22.9m/12.8			16.9				17.1				22.0
24.0	16.2	12.5			16.6	24.4m/13.2			16.7	25.9m/12.9			24.0
26.0	15.9	12.0	27.4m/7.5		16.2	12.8			16.4	12.9			26.0
28.0	15.5	11.5	7.5		15.9	12.3	29.0m/7.5		16.0	12.4	29.0m/7.6		28.0
30.0	15.0	11.0	7.3	30.5m/4.1	15.6	11.8	7.5	32.0m/4.1	15.6	12.0	7.5	32.0m/4.1	30.0
34.0	13.6	10.3	7.1	3.9	13.2	11.1	7.2	4.0	13.1	11.2	7.3	4.0	34.0
38.0	11.4	9.6	6.8	3.8	11.1	10.4	7.0	3.8	10.9	10.5	7.0	3.9	38.0
42.0	9.7	9.1	6.6	3.6	9.3	9.8	6.8	3.7	9.1	9.8	6.8	3.7	42.0
46.0	8.3	8.6	6.3	3.4	7.9	8.5	6.6	3.5	7.7	8.3	6.7	3.6	46.0
50.0	7.1	7.6	5.9	3.4	6.7	7.3	6.4	3.4	6.5	7.1	6.5	3.4	50.0
54.0	6.2	6.6	5.7	3.3	5.8	6.3	6.1	3.4	5.6	6.1	6.2	3.4	54.0
58.0	57.9m/5.3	5.8	5.4	3.1	4.9	5.4	5.7	3.2	4.6	5.2	5.6	3.3	58.0
62.0		5.0	5.2	3.0	4.0	4.6	4.9	3.1	3.7	4.4	4.8	3.2	62.0
66.0		64.0m/4.7	4.6	3.0	3.2	3.8	4.2	3.1	2.9	3.6	4.0	3.1	66.0
70.0			4.0	2.9	67.1m/3.0	3.1	3.5	3.0	67.1m/2.8	2.9	3.3	3.0	70.0
74.0			70.1m/4.0	2.9		73.2m/2.6	2.9	2.9		73.2m/2.4	2.6	2.9	74.0
78.0				76.2m/2.9			2.3	2.6			2.0	2.4	78.0
82.0							79.2m/2.1	2.0			79.2m/1.9	1.8	82.0
84.0								83.8m/1.8				82.3m/1.8	84.0
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	Reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

180t
CKE1800

Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

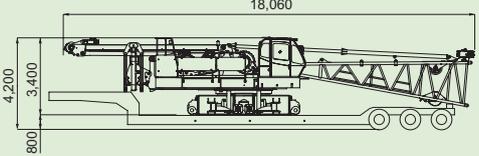
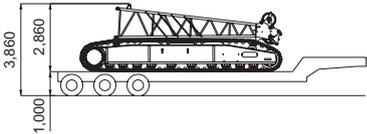
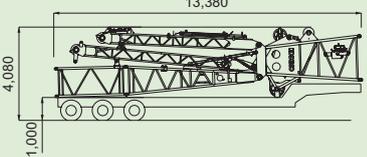
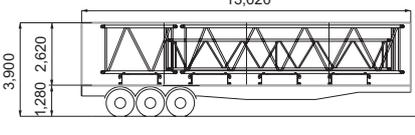
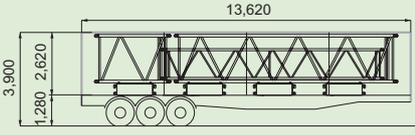
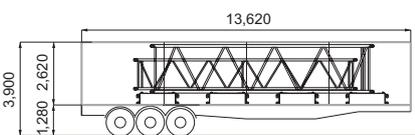
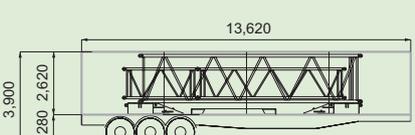
**Vibro Roller
Baby Roller**

Motor Grader

Transportation Plan

180t
CKE1800

Luffing Boom 54.9 m + Luffing Jib 51.8 m

Configuration	Description	Total Weight
No.1 Low Loader Width: 3,500 mm 	Base Machine = Including 3rd winch Translifter Low Boom Main Wire Boom Wire	43.82 t
No.2 Semi Loader 	Crawler No.1 = Crawler No.2 = Luffing Jib Top = Total =	18.00 t 18.00 t 1.17 t 37.17 t
No.3 Semi Loader 	Luffing boom tip assembly	6.60 t
No. 4 Tent Side Truck 	Counterweight No.2 (4 x 5.00 ton) = 9.1 m Insert Boom x 1 = 9.1 m Luffing Insert Jib x 1 = 3.0 m Insert Boom x 1 = Total =	20.00 t 1.22 t 0.74 t 0.63 t 22.59 t
No.5 Tent Side Truck 	Counterweight No.2 (4 x 5.00 ton) = 9.1 m Insert Boom x 1 = 9.1 m Luffing Insert Jib x 1 = 3.0 m Insert Boom x 1 = Total =	20.00 t 1.42 t 0.74 t 0.53 t 22.69 t
No.6 Tent Side Truck 	Counterweight No.2 (2 x 5.00 ton) Carbody Weight No.2 (2 x 5.00 ton) = 9.1 m Insert Boom x 1 = 9.1 m Luffing Insert Jib x 1 = Total =	10.00 t 10.00 t 1.42 t 0.74 t 22.16 t
No.7 Tent Side Truck 	Counterweight No.1 Base = 9.1 m Insert Boom x 1 = 6.1 m Luffing Insert Jib x 1 = 3.0 m Luffing Insert Jib x 1 = Carbody Weight No.1 (2 x 5.07 ton) = Total =	10.00 t 1.22 t 0.54 t 0.31 t 10.14 t 22.21 t

Note: Estimated weights may vary±2%.

This transport plan depends on specifications of your trailers/trucks and the areas or countries where you transport.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

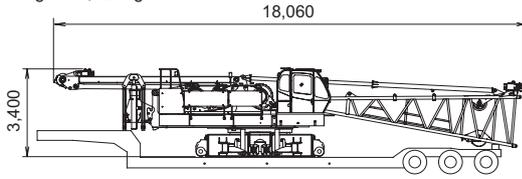
Bull Dozer

Vibro Roller
Baby Roller

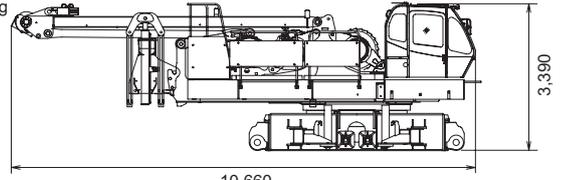
Motor Grader

Parts And Attachments

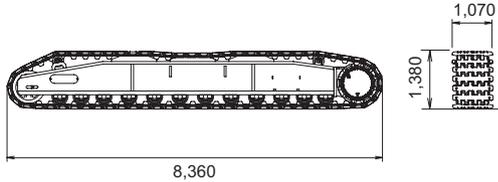
Base Machine
Including 3rd winch, Translifter, Low boom, Main wire, Boom wire
Weight: 43,820 kg



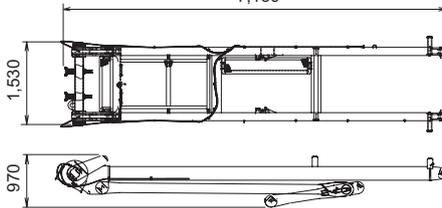
Base Machine
Including 3rd winch, Translifter, Main wire, Boom wire
Weight: 39,300 kg



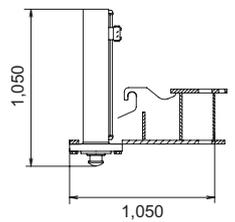
Crawler
Weight: 18,000 kg



Gantry
Weight: 2,950 kg

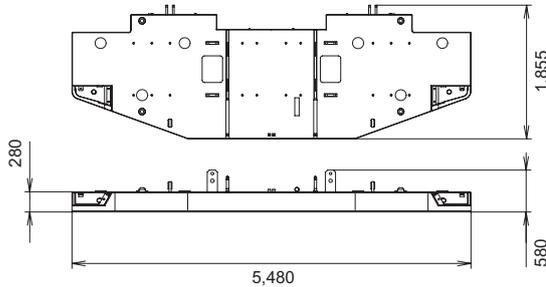


Translifter
Weight: 360 kg

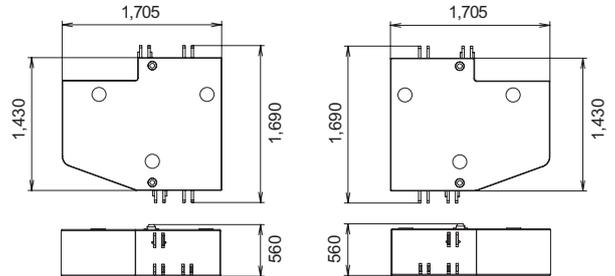


Serial number JCB1-●●●●~(current model)

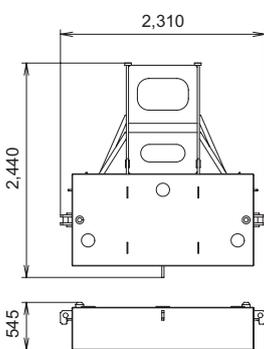
Counterweight No.1
Weight: 10,000 kg



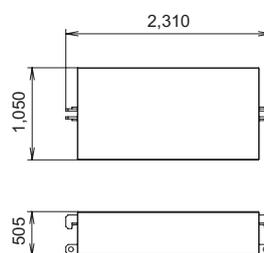
Counterweight No.2
Weight: 5,000 kg / 1 piece



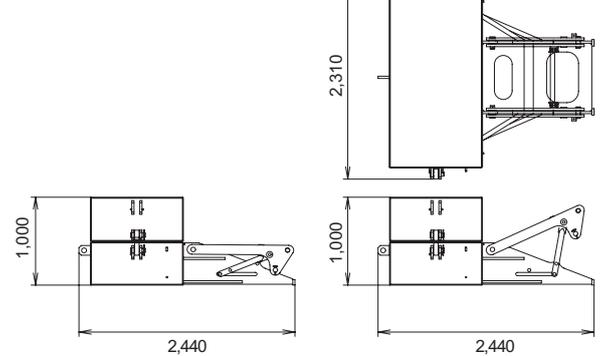
Carbody Weight No.1
Weight: 5,065 kg / 1 piece



Carbody Weight No.2
Weight: 5,000 kg / 1 piece

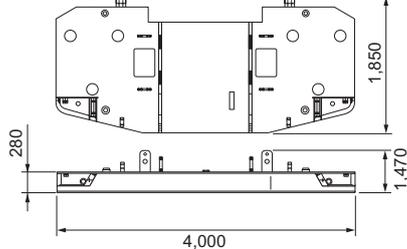


Carbody Weight
Weight: 10,065 kg

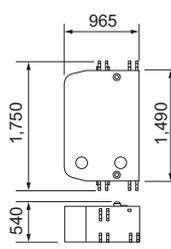


Serial number JC04-●●●●~(conventional model)

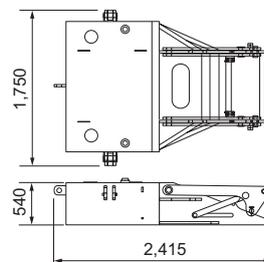
Counterweight A
Weight: 10,000 kg



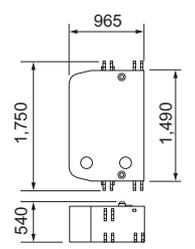
Counterweight B
Weight: 5,000 kg x 10 pieces



Carbody Weight A
Weight: 5,000 kg x 2 pieces



Carbody Weight B
Weight: 5,000 kg x 2 pieces



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

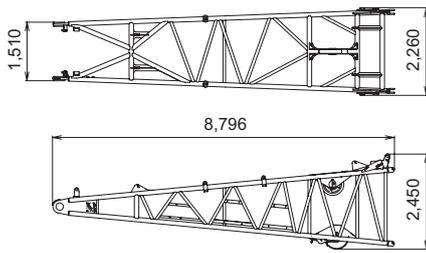
Vibro Roller

Baby Roller

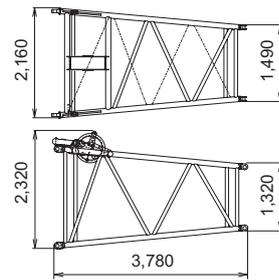
Motor Grader

Dimensions: mm Weight: kg

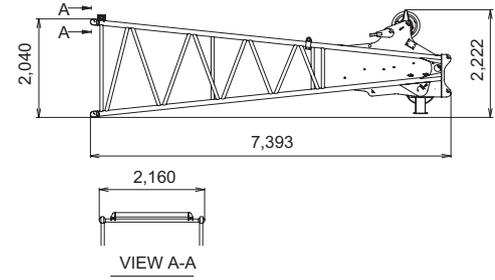
Boom Base
Weight: 2,620 kg



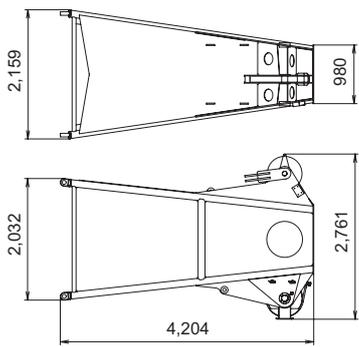
Taper Insert Boom
Weight: 710 kg



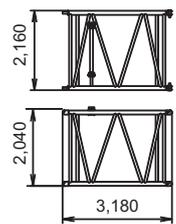
Boom Tip
Weight: 2,100 kg



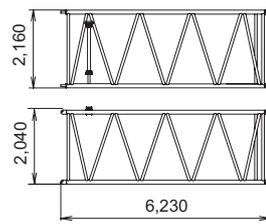
Heavy Boom Tip
Weight: 2,580 kg



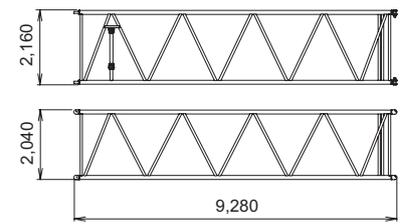
3.0 m Insert Boom
Weight: 530 kg



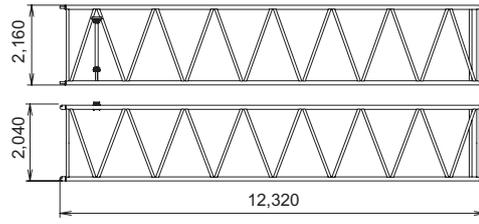
6.1 m Insert Boom
Weight: 880 kg



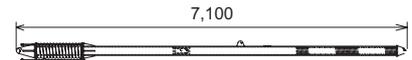
9.1 m Insert Boom
Weight: 1,220 kg



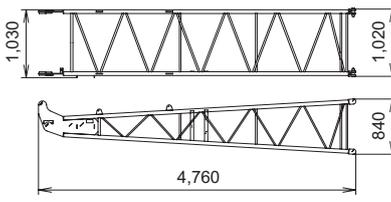
12.2 m Insert Boom
Weight: 1,450 kg



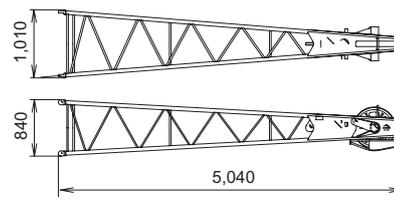
Boom Backstop
Weight: 740 kg / 1 piece



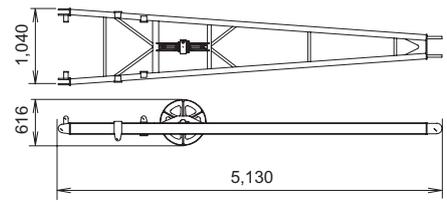
Jib Base (for Crane)
Weight: 210 kg



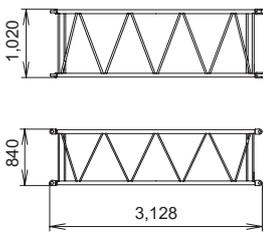
Jib Tip (for Crane)
Weight: 315 kg



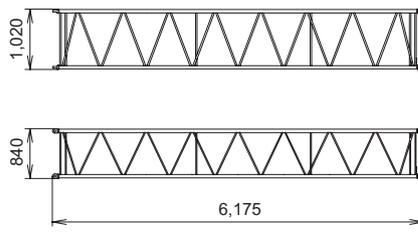
Jib Strut
Weight: 300 kg



3.0 m (Insert Jib)
Weight: 110 kg



6.1 m (Insert Jib)
Weight: 190 kg



Crawler Crane

- 55t**
7055
- 80t**
CKS800
- 90t**
CKS900
- 135t**
CKS1350
- 180t**
CKE1800

250t
CKE2500-2

Rough Terrain Crane

- 25t**
GR-250N-2
- 30t**
GR-300EX
- 50t**
GR-500EXL

- 60t**
GR-600EX
- 80t**
GR-800EX

All Terrain Crane

- 160t**
ATF160G-5
- 200t**
LTM1200-5.1
- 220t**
ATF220G-5

Aerial Platform

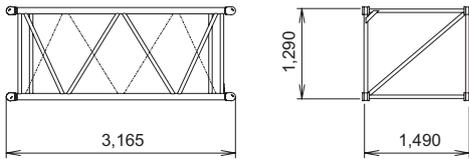
- Boom Lift**
- Scissors Lift**

Others

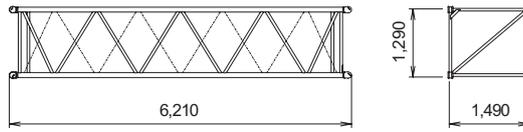
- Truck Mounted Crane**
- Forklift**
- Tele handler**
- Excavator**
- Bull Dozer**
- Vibro Roller**
- Baby Roller**
- Motor Grader**

Parts And Attachments

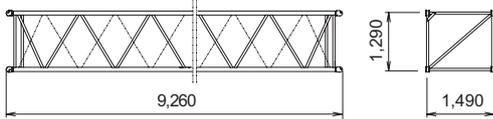
3.0 m Insert Jib
Weight: 310 kg



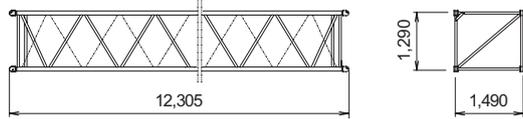
6.1 m Insert Jib
Weight: 540 kg



9.1 m Insert Jib (Long Insert Boom)
Weight: 740 kg



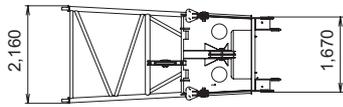
12.2 m Insert Jib
Weight: 960 kg



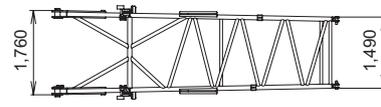
Crawler Crane

55t
7055

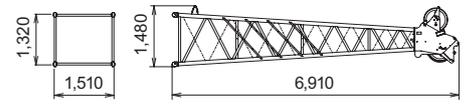
Luffing Upper Boom
Weight: 2,545 kg



Luffing Jib Base
Weight: 1,140 kg



Luffing Jib Tip
Weight: 1,170 kg



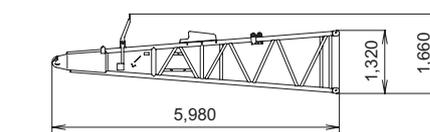
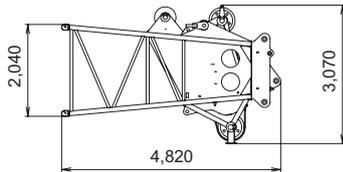
80t
CKS800

90t
CKS900

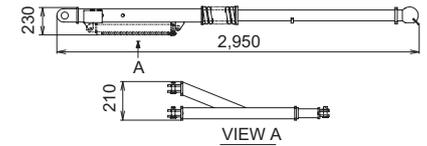
135t
CKS1350

180t
CKE1800

250t
CKE2500-2



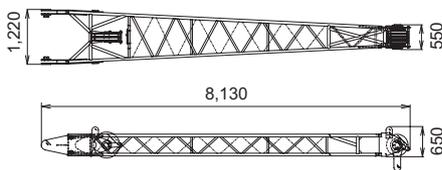
Luffing Jib Backstop
Weight: 100 kg / 1 piece



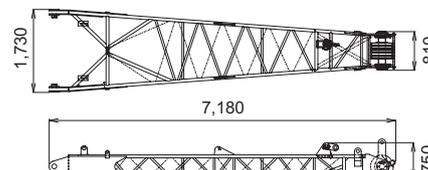
Rough Terrain Crane

25t
GR-250N-2

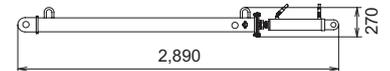
Front Strut (Luffing Jib)
Weight: 1,000 kg



Rear Strut (Luffing Jib)
Weight: 1,090 kg



Strut Backstop (Luffing Jib)
Weight: 180 kg / 1 piece



30t
GR-300EX

50t
GR-500EXL

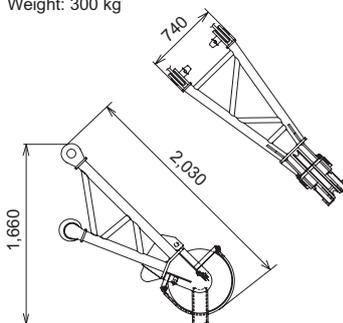
60t
GR-600EX

80t
GR-800EX

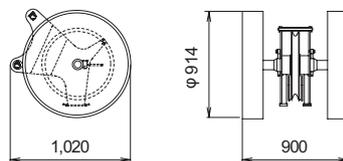
All Terrain Crane

160t
ATF160G-5

Aux. Sheave
Weight: 300 kg



Aux. Sheave (for Luffing Jib)
Weight: 380 kg



200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

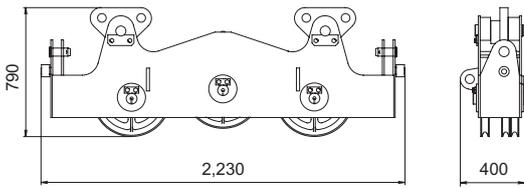
Excavator

Bull Dozer

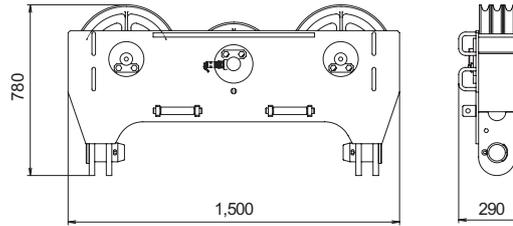
Vibro Roller Baby Roller

Motor Grader

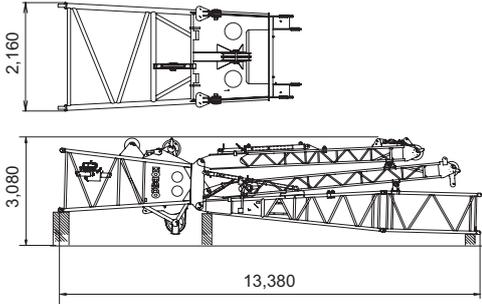
Upper Spreader
Weight: 590 kg



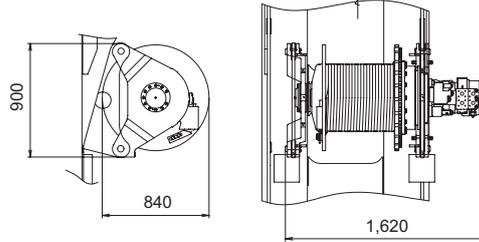
Lower Spreader
Weight: 400 kg



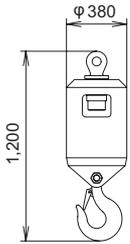
Luffing Boom Tip Assembly
Weight: 6,600 kg



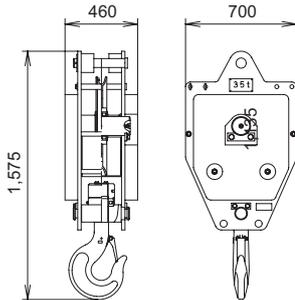
Luffing Jib Drum
Weight: 1,470 kg



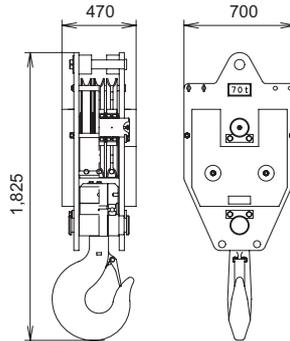
Ball Hook
Weight: 460 kg



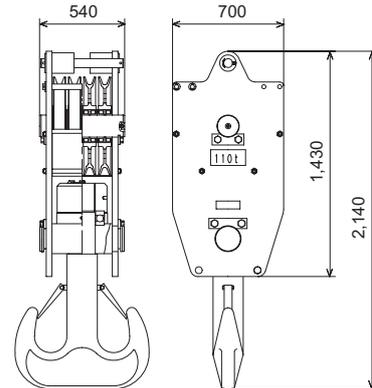
35 t Hook Block
Weight: 900 kg



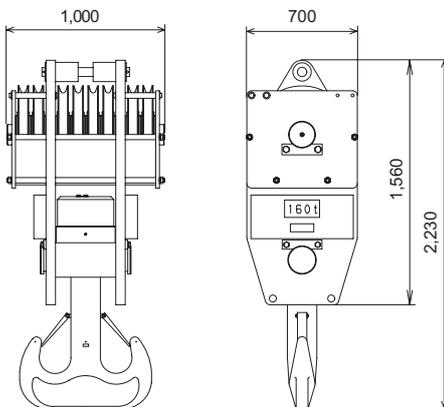
70 t Hook Block
Weight: 1,200 kg



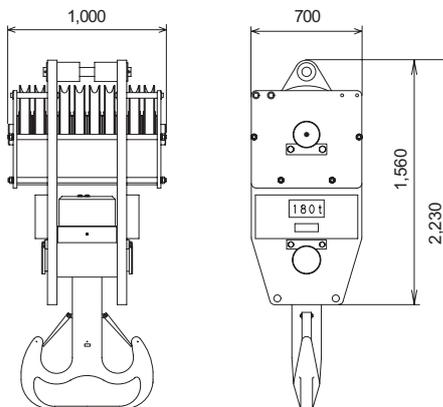
110 t Hook Block
Weight: 1,730 kg



160 t Hook Block
Weight: 2,800 kg



180 t Hook Block
Weight: 2,800 kg



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Standard Equipment

Upper structure/Lower structure

Counterweight: 60.0 ton (total weight)
 Carbody weight: 20.0 ton (total weight)
 1,070 mm shoe crawlers
 Batteries (170 Ah/20 HR)
 Trans-lifter (jack system)
 Gantry raising/lowering cylinder
 Electric hand throttle grip
 Variable boom hoist speed controller
 Swing neutral-free/brake select switch
 Side deck for cab
 Side deck (right side guard)
 Steps (crawlers)
 Two front working lights
 Tools (for routine maintenance)
 Two rear view mirrors
 Electric fuel pump
 Counterweight self removal
 Crawler self removal
 Cable roller (for boom)

Cab/Control

Boom hoist pedal
 Air conditioner
 Cup holder
 Ashtray
 Cigar lighter
 Intermittent wiper & window washer (skylight and front window)
 Sun visor
 Roof blind
 Floor mat (cloth)
 Foot rest
 Shoe tray
 Level gauge (operator cabin)

Safety Device

Load Moment Indicator (with boom lowering slow stop function)
 LMI release key (for hook over-hoist prevention device and boom over-hoist prevention device)
 LCD multi display
 Ultimate stop function for boom over-hoist
 Function lock lever
 Propel lever lock
 Mechanical drum lock pawl (main, aux. and boom hoist)
 Signal horn
 Swing parking brake
 Mechanical swing lock pin (four positions)
 Swing flashers/warning buzzer
 Cab window guard (left side)
 Cab top guard
 Fire extinguisher
 External lamp for over-load alarm
 Life hammer

180t
 CKE1800

Crawler Crane

55t
 7055

80t
 CKS800

90t
 CKS900

135t
 CKS1350

180t
 CKE1800

250t
 CKE2500-2

Rough Terrain Crane

25t
 GR-250N-2

30t
 GR-300EX

50t
 GR-500EXL

60t
 GR-600EX

80t
 GR-800EX

All Terrain Crane

160t
 ATF160G-5

200t
 LTM1200-5.1

220t
 ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
 Baby Roller

Motor Grader

Crawler Crane 250t CKE2500-2

Manual PDF	
<p>Crawler Crane 250t CKE2500-2 (KOBELCO)</p>	
<p>Crawler Crane 250t 7250-2F (KOBELCO)</p>	
<p>Crawler Crane 250t CKS2500 (KOBELCO)</p>	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Configuration

Crane Boom

Max. Lifting Capacity:
250 metric ton x 4.6 m
Max. Boom Length:
91.4 m

Long Boom

Max. Lifting Capacity:
47.1 metric ton x 12.8 m
Max. Boom Length:
91.4 m

Luffing Boom

Max. Lifting Capacity:
150 metric ton x 7.0 m
Max. Boom Length:
61.0 m



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7055

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CKE2500-2

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All Terrain Crane

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ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

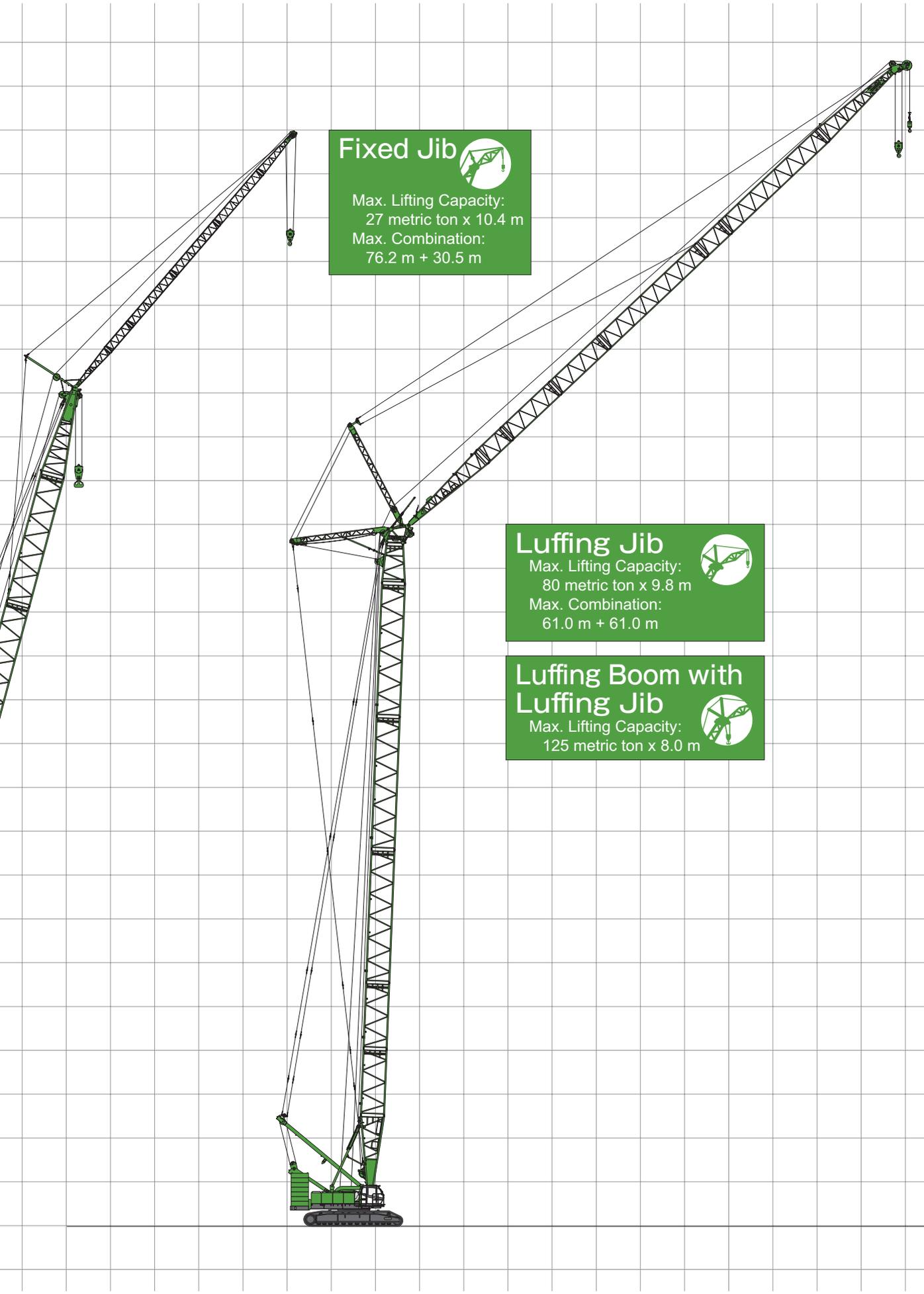
Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader



Fixed Jib



Max. Lifting Capacity:
27 metric ton x 10.4 m
Max. Combination:
76.2 m + 30.5 m

Luffing Jib



Max. Lifting Capacity:
80 metric ton x 9.8 m
Max. Combination:
61.0 m + 61.0 m

Luffing Boom with Luffing Jib



Max. Lifting Capacity:
125 metric ton x 8.0 m

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

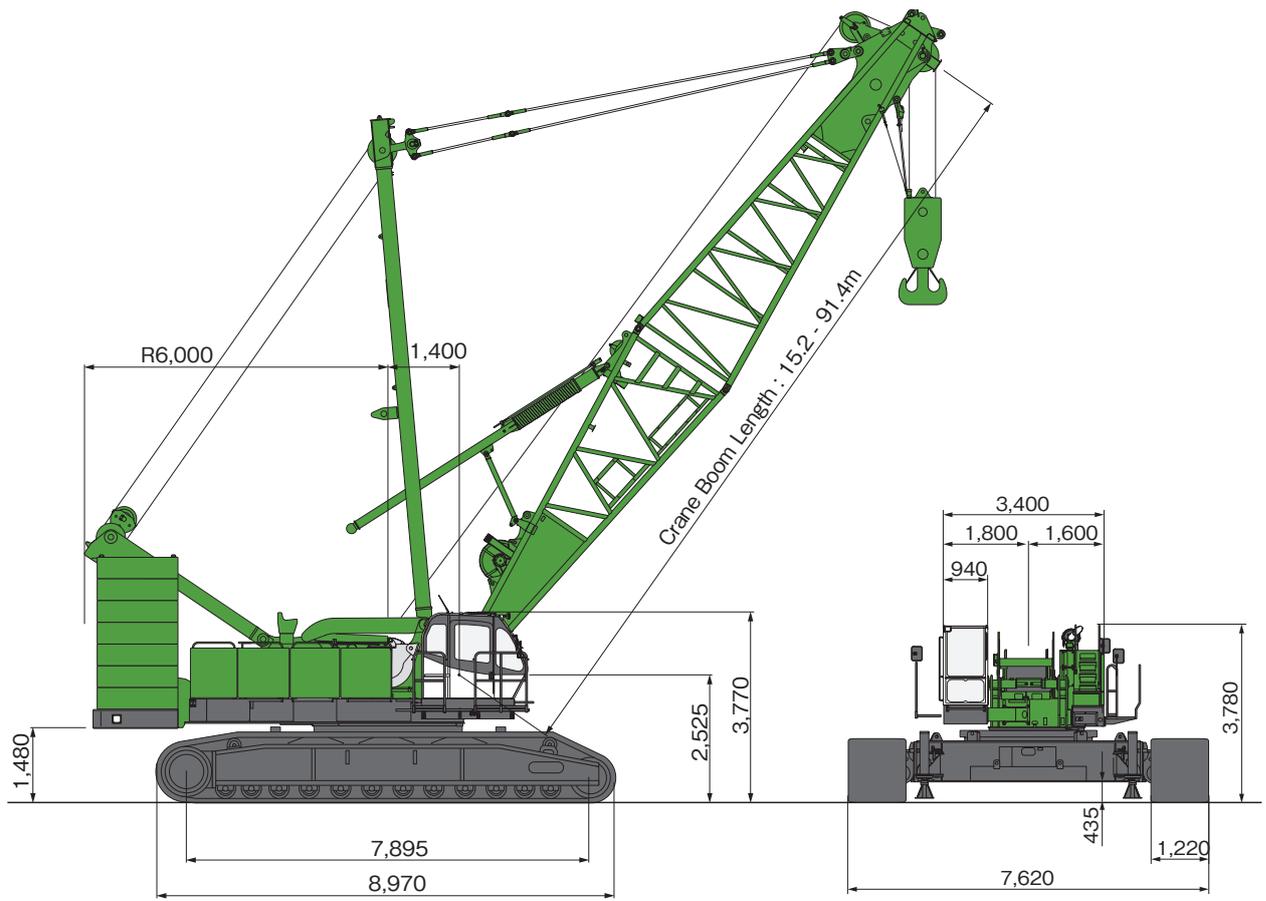
Vibro Roller
Baby Roller

Motor Grader

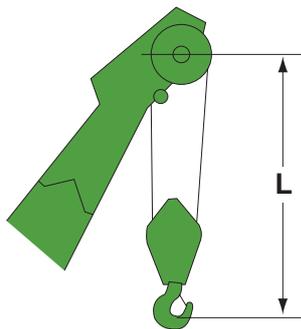
General Dimensions

Crane Boom

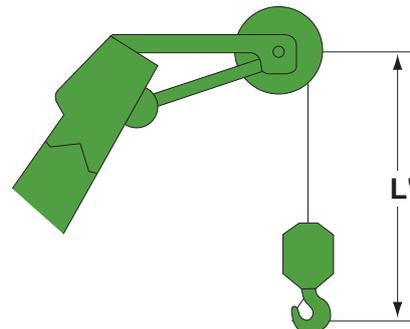
(Unit: mm)



Limit of Hook Lifting



Hook	L
250 t hook	5.3 m
150 t hook	5.9 m
70 t hook	4.9 m
35 t hook	4.7 m



Hook	L'
35 t hook	3.8 m
13.5 t ball hook	3.5 m

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

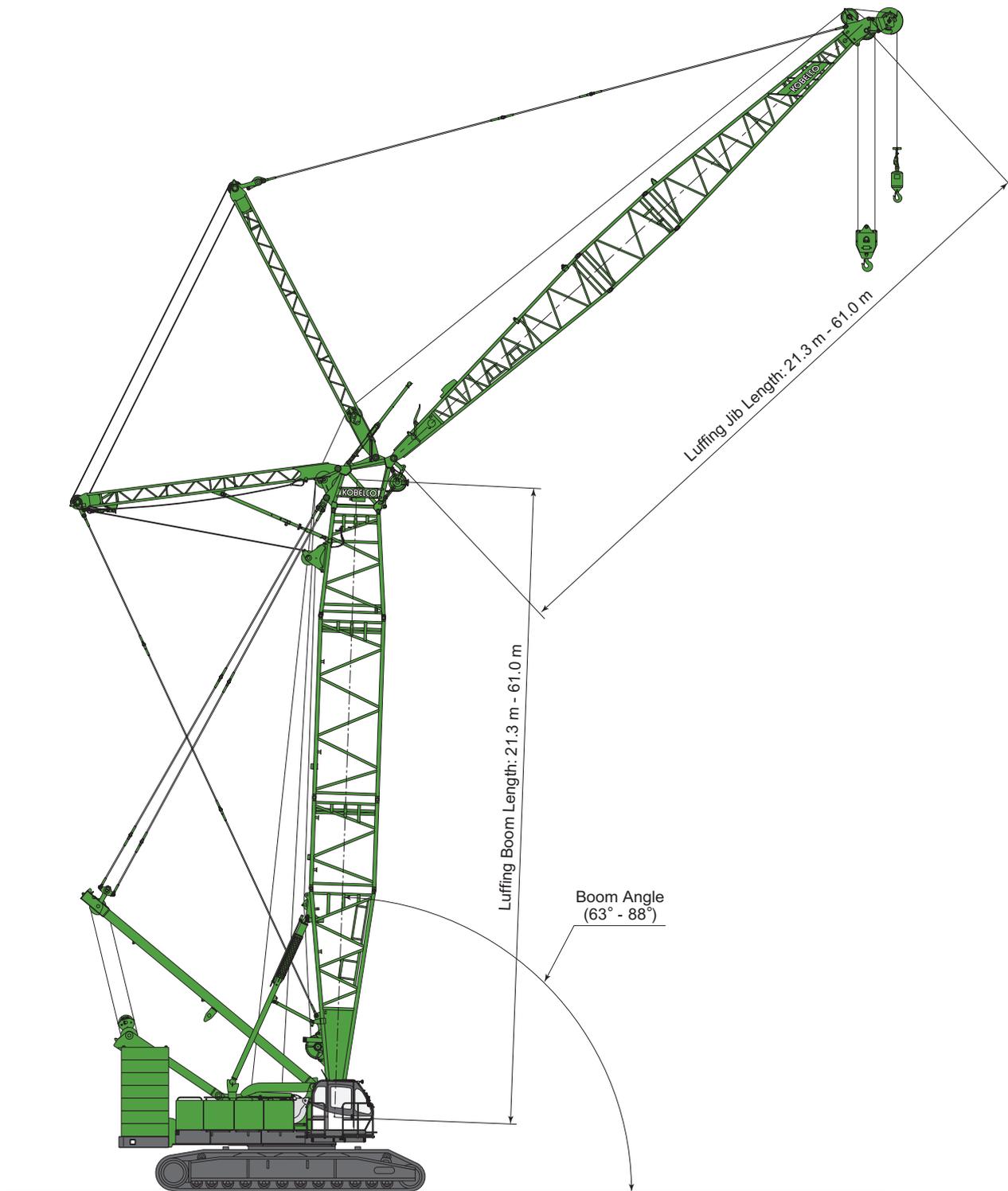
- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Luffing Jib

(Unit: mm)



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Specifications



Power Plant

Model: Hino diesel engine P11C-UN
 Type: Water-cooled, direct fuel injection, with turbocharger
 Compiles with NRMM (Europe) Stage IIIA and US EPA Tier III.
 Displacement: 10.520 liters
 Rated Power: 247 kW at 2,000 min⁻¹{rpm} (ISO)
 Max. torque: 1,300 N-m/1,500 min⁻¹
 Cooling system: Liquid, recirculating bypass
 Starter: 24 V/6.0 kW
 Radiator: Corrugated type core, thermostatically controlled
 Air cleaner: Dry type with replaceable paper element
 Throttle: Electric throttle control, twist grip type
 Fuel filter: Replaceable paper element
 Batteries: Two 12V, 170Ah/20HR capacity batteries, series connected.
 Fuel tank capacity: 400 liters



Hydraulic System

Four variable displacement piston pumps are driven by heavy-duty pump drive. Two of variable displacement pumps are used in the main hook hoist circuit, auxiliary hook hoist circuit, jib hoist circuit and each propel circuit. One of the other two pumps is used in the boom hoist circuit, and the other is used in the swing circuit.

Control: Full-flow hydraulic control system for infinitely variable pressure to front and rear drums, boom hoist drum and propel. Controls respond instantly to the touch, delivering smooth function operation.

Cooling: Oil-to-air heat exchanger (plate-fin type)
 Filtration: Full-flow and bypass type with replaceable element
 Electrical system: All wiring corded for easy servicing, individual fused branch circuits.

Max. relief valve pressure:

Load hoist, boom hoist and propel system:

31.9 MPa {325 kgf/cm²}

Swing system: 27.5 MPa {280 kgf/cm²}

Control system: 5.4 MPa {55 kgf/cm²}

Reservoir capacity: 600 liters



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.
 Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.

Drum lock: External ratchet for locking drum.

Drum: Double drum, grooved for 26 mm dia. wire rope.

Line speed: Double line on first drum layer

Hoisting/Lowering: 22 to 2 m/min x 2

Diameter of wire ropes

Boom guy line: 38 mm

Boom hoist reeving: 16 parts of 26 mm dia. high strength wire rope

Boom backstops: Required for all boom lengths



Load Hoist System

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.
 Negative Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional item.)

Drum lock: External ratchet for locking drum

Drums:

Front drum:

617.1 mm P.C.D. x 833.7 mm Lg. wide drum, grooved for 25 mm wire rope. Rope capacity is 480 m working length and 600 m storage length.

Rear drum:

617.4 mm P.C.D. x 833.7 mm Lg. wide drum, grooved for 25 mm wire rope. Rope capacity is 390 m working length and 600 m storage length.

Note: Rope lengths listed above denote drum capacity and may differ from actual rope lengths supplied when machinery is shipped.

Line speed: Single line on the first drum layer

Hoisting/Lowering: 110 to 3 m/min

Line Pull (Single-line):

Rated line pull: 132 kN {13.5 tf}



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers (2 sets), the swing system provides 360° rotation.

Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle: Single-row ball bearing with an integral internally cut swing gear.

Swing lock: Manually, four position lock for transportation

Swing speed: 2.2 min⁻¹{rpm}



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine with low noise level. Complies with EC Directive 2000/14/EC.

Counterweight: 90.0 ton

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader



Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a head-rest and armrests, and intermittent wiper and window washer (skylight and front window).

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, foot-rest, shoe tray

Controls:

Four adjustable levers for front drum, rear drum, boom drum and swing controls, and boom hoist pedal.



Lower Structure

Steel-welded carbody with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Carbody weight: 24.0 ton

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoes (flat): 68 shoes, 1,220 mm wide each crawler
(Optional 1,330 mm shoe is available)

Max. travel speed: 1.1/0.7 km/h

Max. gradeability: 30%



Weight

Including upper and lower machine, 90.0 ton counterweight and 24.0 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Specification	Weight	Ground pressure
Crane boom	Approx. 213 ton, 108.4 kPa	{1.11 kgf/cm ² }
Fixed jib	Approx. 214 ton, 108.9 kPa	{1.11 kgf/cm ² }
Luffing jib	Approx. 222 ton, 113.0 kPa	{1.15 kgf/cm ² }



Attachment

Boom and Jib:

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections.

Boom and Jib Length

	Min. Length (Min. Combination)	Max. Length (Max. Combination)
Crane Boom	15.2 m	91.4 m
Luffing Boom	15.2 m	61.0 m
Long Boom	64.0 m	91.4 m
Fixed Jib	27.4 m + 12.2 m	76.2 m + 30.5 m
Luffing Jib	21.3 m + 21.3 m	61.0 m + 61.0 m

Main Specifications (Model: CKE2500-2)

Crane Boom	
Max. Lifting Capacity	250 t/4.6 m
Max. Length	91.4 m
Luffing Boom	
Max. Lifting Capacity	150 t/7.0 m
Max. Length	61.0 m
Long Boom	
Max. Lifting Capacity	47.1 t/12.8 m
Max. Length	91.4 m
Fixed Jib	
Max. Lifting Capacity	27 t/10.4 m
Max. Length	30.5 m
Max. Combination	76.2 m + 30.5 m
Luffing Jib	
Max. Lifting Capacity	80 t/9.8 m
Jib Length	21.3 m ~ 61.0 m
Max. Combination	61.0 m + 61.0 m
Luffing Angle	63° ~ 88°
Main & Aux. Winch	
Max. Line Speed	110 m/min (1st layer)
Rated Line Pull (Single Line)	132 kN {13.5 tf}
Wire Rope Diameter	25 mm
Wire Rope Length	480 m (Main) 390 m (Aux.)
Brake Type	Spring set hydraulically released (Negative)
Free-Fall Brake Type	Wet-type multiple disc brake (Optional)

Working Speed	
Swing Speed	2.2 min ⁻¹ {2.2 rpm}
Travel Speed	1.1/0.7 km/h
Power Plant	
Model	Hino P11C-UN
Engine Output	247 kW/2,000 min ⁻¹ {rpm}
Fuel Tank Capacity	400 liters
Hydraulic System	
Main Pumps	4 variable displacement
Max. Pressure	31.9 MPa {325 kgf/cm ² }
Hydraulic Tank Capacity	600 liters
Self-Removal Device	Standard
Weight	
Operating Weight*	Approx. 213 t
Ground Pressure*	108.4 kPa {1.11 kgf/cm ² }
Counterweight	90.0 t (Upper), 24.0 t (Lower)
Transport Weight**	Approx. 44.9 t

* Including upper and lower machine, 90.0 ton counterweight and 24.0 ton carbody weight, basic boom, hook, and other accessories.

** Base machine with trans-lifter, main and aux. winches (non-free fall) including wire rope, and boom hoist winch including wire rope.
Units are SI units. { } indicates conventional units.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Boom And Jib Arrangements

Crane Boom Arrangements

Boom length m (ft)	Boom arrangement
15.2 (50)	
18.3 (60)	
21.3 (70)	※
24.4 (80)	※
27.4 (90)	※
30.5 (100)	※
33.5 (110)	※
36.6 (120)	※
39.6 (130)	※
42.7 (140)	※
45.7 (150)	※
48.8 (160)	※
51.8 (170)	※

Symbol	Boom Length	Remarks
	7.6 m	Boom Base
	7.6 m	Boom Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	12.2 m	Insert Boom

Boom length m (ft)	Boom arrangement
54.9 (180)	※
57.9 (190)	※
61.0 (200)	※
64.0 (210)	※
67.1 (220)	※
70.1 (230)	※
73.2 (240)	※
76.2 (250)	※
79.3 (260)	※
82.3 (270)	※
85.3 (280)	※
88.4 (290)	※
91.4 (300)	

↗ mark shows the guy line installing position when the fixed jib is used.

※ Indicates the most flexible combination of insert booms, which can be modified to form all shorter boom arrangements.

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55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane
Forklift

Tele handler

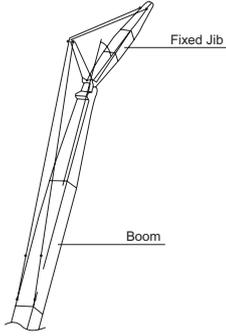
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Fixed Jib Arrangements



Crane boom length	Jib length m (ft)	Jib arrangement
27.4 m 76.2 m	12.2 (40)	
	18.3 (60)	
	24.4 (80)	
	30.5 (100)	

Symbol	Jib Length	Remarks
	4.6 m	Jib Base
	4.6 m	Jib Top
	3.0 m	Insert Jib
	6.1 m	Insert Jib

Long Boom Arrangements

Boom length m (ft)	Boom arrangement
64.0 (210)	
67.1 (220)	
70.1 (230)	
73.2 (240)	※
76.2 (250)	※
79.3 (260)	※
82.3 (270)	※
85.3 (280)	※
88.4 (290)	※
91.4 (300)	※

※ Indicates the most flexible combination of insert long booms, which can be modified to form all shorter long boom arrangements.

Symbol	Long Boom Length	Remarks
	7.6 m	Boom Base
	9.1 m	Luffing Jib Top
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	12.2 m	Insert Boom
	4.6 m	Tapered Boom
	3.0 m	Relay Jib
	3.0 m	Luffing Insert Jib
	6.1 m	Luffing Insert Jib
	12.2 m	Luffing Insert Jib

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Boom And Jib Arrangements

Luffing Boom Arrangements for Luffing

Boom length m (ft)	Boom arrangement
21.3 (70)	※
24.4 (80)	※
27.4 (90)	※
30.5 (100)	※
33.5 (110)	※
36.6 (120)	※
39.6 (130)	※
42.7 (140)	※
45.7 (150)	※

Boom length m (ft)	Boom arrangement
48.8 (160)	※
51.8 (170)	※
54.9 (180)	※
57.9 (190)	※
61.0 (200)	※

※ Indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Symbol	Luffing Boom Length	Remarks
	7.6 m	Boom Base
	1.0 m	Luffing Boom Top
	3.6 m	Luffing Tapered Boom
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	12.2 m	Insert Boom

Luffing Boom Arrangements for Crane

Boom length m (ft)	Boom arrangement
15.2 (50)	
18.3 (60)	※
21.3 (70)	※
24.4 (80)	※
27.4 (90)	※
30.5 (100)	※
33.5 (110)	※
36.6 (120)	※
39.6 (130)	※
42.7 (140)	※

Boom length m (ft)	Boom arrangement
45.7 (150)	※
48.8 (160)	※
51.8 (170)	※
54.9 (180)	※
57.9 (190)	※
61.0 (200)	※

※ Indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Symbol	Luffing Boom Length	Remarks
	7.6 m	Boom Base
	1.0 m	Luffing Boom Top
	3.6 m	Luffing Tapered Boom
	3.0 m	Insert Boom
	6.1 m	Insert Boom
	12.2 m	Insert Boom

Luffing Jib Arrangements

Jib length m (ft)	Jib arrangement
21.3 (70)	※
24.4 (80)	※
27.4 (90)	※
30.5 (100)	※
33.5 (110)	※
36.6 (120)	※

Jib length m (ft)	Jib arrangement
39.6 (130)	※
42.7 (140)	※
45.7 (150)	※
48.8 (160)	※

↘ mark shows the installing position for mid suspension guy line.

※ Indicates the most flexible combination of insert luffing jibs, which can be modified to form all shorter luffing jib arrangements.

Jib length m (ft)	Jib arrangement
51.8 (170)	※
54.9 (180)	※
57.9 (190)	※
61.0 (200)	※

Symbol	Luffing Jib Length	Remarks
	9.1 m	Luffing Jib Base
	9.1 m	Luffing Jib Top
	3.0 m	Relay Jib
	3.0 m	Luffing Insert Jib
	6.1 m	Luffing Insert Jib
	12.2 m	Luffing Insert Jib

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough
Terrain
Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain
Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial
Platform

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Luffing Boom and Jib Combinations.

		Jib Length (m)													
		21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8	54.9	57.9	61.0
Boom Length (m)	21.3	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	24.4	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	27.4	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	30.5	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	33.5	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	36.6	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	39.6	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	42.7	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	45.7	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	48.8	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	51.8	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	54.9	○	○	○	○	○	○	○	○	○	○	○	○	○	○
57.9	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
61.0	×	×	×	○	○	○	○	○	○	○	○	○	○	○	

○ : Combinations which is allowed. × : Combinations which is not allowed.



Hook Blocks

A range of hook blocks can be specified, each with a safety latch.

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)							
			1	2	3	4	5	6	7	8
250-ton	4,200	11	-	-	-	54.0	-	81.0	-	108.0
150-ton	2,300	6	-	-	40.5	54.0	67.5	81.0	94.5	108.0
70-ton	1,200	3	-	27.0	40.5	54.0	67.5	70.0	-	-
35-ton	900	1	-	27.0	35.0	-	-	-	-	-
13.5-ton ball hook	450	0	13.5	-	-	-	-	-	-	-

Hooks	Weight (kg)	No. of sheaves	No. of lines and max. rated loads (tons)							
			9	10	12	14	16	18	20	22
250-ton	4,200	11	-	135.0	160.0	183.0	205.0	227.0	240.0	250.0
150-ton	2,300	6	121.5	135.0	150.0	-	-	-	-	-
70-ton	1,200	3	-	-	-	-	-	-	-	-
35-ton	900	1	-	-	-	-	-	-	-	-
13.5-ton ball hook	450	0	-	-	-	-	-	-	-	-



Main Hoist Drum Rated Loads in Metric Tons

No. of Parts of Line	1	2	3	4	5	6	7	8
Max. Loads (ton)	13.5	27.0	40.5	54.0	67.5	81.0	94.5	108.0
No. of Parts of Line	9	10	12	14	16	18	20	22
Max. Loads (ton)	121.5	135.0	160.0	183.0	205.0	227.0	240.0	250.0

Style and Combination of Boom and Jib

	Style	Crane Boom	Luffing Boom	Long Boom	Fixed Jib	Luffing Jib
Boom	7.6 m boom base	Common use(1)	Common use(1)	Common use(1)	Common use(1)	Common use(1)
	7.6 m boom top	Common use(1)	N.A.	N.A.	Common use(1)	N.A.
	1.0 m luffing boom top	N.A.	Common use(1)	N.A.	N.A.	Common use(1)
	3.0 m insert boom	Common use(1)	Common use(2)	Common use(2)	Common use(2)	Common use(2)
	6.1 m insert boom	Common use(2)	Common use(1)	Common use(1)	Common use(1)	Common use(1)
	12.2 m insert boom	Common use(5)	Common use(3)	Common use(3)	Common use(4)	Common use(3)
	3.6 m luffing tapered boom	N.A.	Common use(1)	N.A.	N.A.	Common use(1)
	4.6 m tapered boom	N.A.	N.A.	Long Boom only(1)	N.A.	N.A.
Jib	4.6 m jib base	-	-	N.A.	Fixed jib only(1)	N.A.
	4.6 m jib top	-	-	N.A.	Fixed jib only(1)	N.A.
	3.0 m insert jib	-	-	N.A.	Fixed jib only(1)	N.A.
	6.1 m insert jib	-	-	N.A.	Fixed jib only(3)	N.A.
	9.1 m luffing jib base	-	-	N.A.	N.A.	Luffing jib only(1)
	9.1 m luffing jib top	-	-	Common use(1)	N.A.	Common use(1)
	3.0 m relay jib	-	-	Common use(1)	N.A.	Common use(1)
	3.0 m luffing insert jib	-	-	Common use(2)	N.A.	Common use(1)
	6.1 m luffing insert jib	-	-	Common use(2)	N.A.	Common use(2)
	12.2 m luffing insert jib	-	-	Common use	N.A.	Common use(2)

Note: 1. Figure in () means the numbers of the maximum usable boom (or jib) respectively.
2. N.A.: Not applicable

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

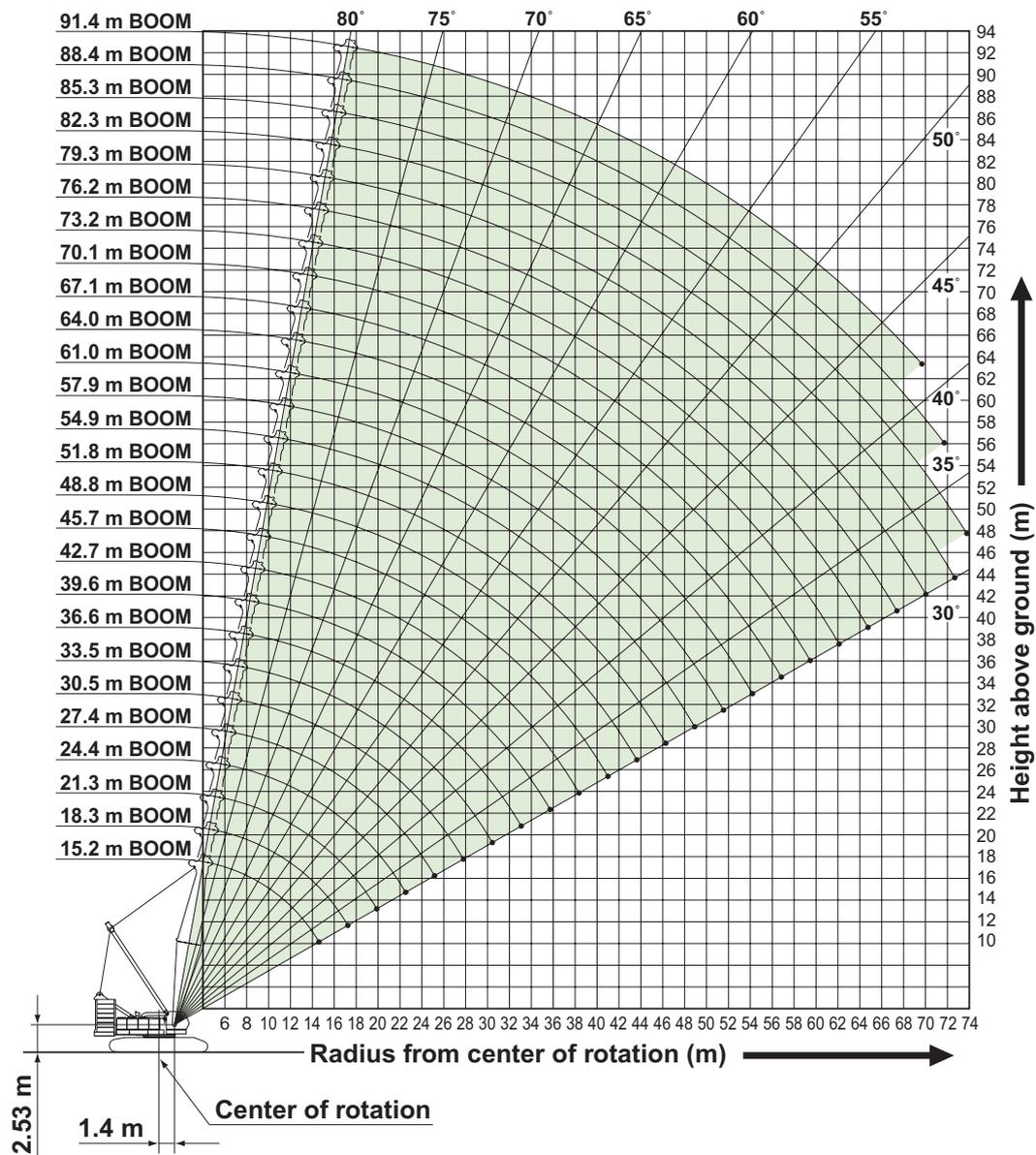
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Crane Boom Working Ranges



NOTES:

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. The boom should be erected over the front of crawlers, not laterally.
13. Ratings shown in are determined by the strength of the boom or other structural component.
14. When erecting or lowering the boom length of 88.4 m or over, the pillow plate for erection must be placed at the end of crawlers.
15. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
16. Crane boom ratings: Deduct weight of hook block, slings, and all other load handling accessories from crane boom ratings shown.
17. Auxiliary sheave ratings for crane boom: Deduct weight of hook block, slings, and all other load handling accessories from auxiliary sheave ratings for crane boom shown.
18. Crane boom lengths for auxiliary sheave mounting are 15.2 m to 88.4 m.

250t
CKE2500-2

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Crane Boom Lifting Capacity

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

Working radius (m)	Boom Length (m)													Working radius (m)	
	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8		
4.6	4.6 m/250.0													4.6	
5.0	230.7	226.7	5.5m/205.0											5.0	
6.0	191.5	191.5	191.1	6.1 m/183.0	6.6 m/174.5									6.0	
7.0	165.9	165.6	165.2	165.0	164.7	7.1 m/154.2	7.7 m/143.8							7.0	
8.0	146.1	145.8	145.4	145.2	144.9	144.6	141.4	8.2 m/127.3	8.7 m/115.7					8.0	
9.0	130.4	130.1	129.8	129.6	129.2	129.0	127.0	127.3	123.8	114.8	9.2 m/107.2	9.8 m/98.3		9.0	
10.0	117.7	117.4	117.1	116.9	114.7	114.7	115.0	113.3	110.5	107.4	103.8	97.0	10.3 m/92.6	10.8 m/84.7	10.0
12.0	90.0	90.2	90.2	90.2	90.2	90.1	90.0	89.9	87.8	85.9	83.8	82.0	79.5	12.0	
14.0	72.2	72.4	72.4	72.4	72.3	72.2	72.1	72.0	72.0	72.0	70.8	69.4	68.0	14.0	
16.0	14.8 m/65.7	60.2	60.2	60.2	60.0	59.9	59.8	59.8	59.7	59.6	59.4	59.3	58.7	16.0	
18.0		17.5 m/53.5	51.3	51.3	51.1	51.1	50.9	50.8	50.7	50.7	50.4	50.3	50.2	18.0	
20.0			44.6	44.6	44.4	44.3	44.1	44.0	43.9	43.9	43.6	43.5	43.4	20.0	
22.0			20.1 m/44.3	39.3	39.1	39.0	38.7	38.7	38.6	38.5	38.3	38.2	38.0	22.0	
24.0				22.7 m/37.6	34.8	34.7	34.5	34.4	34.3	34.2	34.0	33.8	33.7	24.0	
26.0					25.4 m/32.3	31.3	30.9	30.8	30.7	30.7	30.4	30.3	30.1	26.0	
28.0						28.3	28.0	27.9	27.8	27.7	27.4	27.3	27.1	28.0	
30.0							25.5	25.4	25.2	25.2	24.9	24.8	24.6	30.0	
32.0							30.7 m/24.8	23.4	23.1	23.0	22.7	22.6	22.4	32.0	
34.0								33.3 m/22.1	21.2	21.1	20.8	20.7	20.5	34.0	
36.0									35.9 m/19.7	19.5	19.2	19.1	18.9	36.0	
38.0										18.0	17.7	17.6	17.4	38.0	
40.0										38.6 m/17.6	16.4	16.3	16.1	40.0	
42.0											41.2 m/15.7	15.2	14.9	42.0	
44.0												43.9 m/14.2	13.9	44.0	
46.0													13.0	46.0	
48.0													46.5 m/12.8	48.0	
Reeves	22	18	16	14	14	12	12	10	10	8	8	7	7	Reeves	

Working radius (m)	Boom Length (m)													Working radius (m)
	54.9	57.9	61.0	64.0	67.1	70.1	73.2	76.2	79.3	82.3	85.3	88.4	91.4	
10.0	11.4 m/81.4	11.9 m/76.1												10.0
12.0	78.0	75.5	12.4 m/68.8	12.9 m/67.5	13.5 m/63.8									12.0
14.0	66.5	65.2	63.3	62.5	61.3	59.4	14.5 m/54.5	15.1 m/49.1	15.6 m/44.7					14.0
16.0	57.5	56.4	55.4	54.2	53.2	51.2	51.1	48.4	44.5	16.1 m/40.9	16.6 m/37.4	17.2 m/33.8	17.7 m/31.0	16.0
18.0	50.0	49.5	48.6	47.6	46.8	45.6	44.9	44.2	43.2	39.7	36.6	33.3	30.9	18.0
20.0	43.2	43.0	42.9	42.2	41.5	40.6	39.9	39.2	38.4	37.6	35.4	32.2	29.8	20.0
22.0	37.8	37.7	37.5	37.3	37.2	36.5	35.7	35.1	34.4	33.6	32.9	31.2	28.8	22.0
24.0	33.5	33.3	33.2	32.9	32.9	32.6	32.2	31.6	30.9	30.2	29.6	29.2	27.7	24.0
26.0	29.9	29.7	29.6	29.4	29.3	29.0	28.9	28.6	28.0	27.3	26.8	26.3	25.7	26.0
28.0	26.9	26.8	26.6	26.4	26.3	26.0	25.9	25.8	25.4	24.8	24.3	23.9	23.3	28.0
30.0	24.4	24.2	24.1	23.8	23.7	23.5	23.3	23.2	23.0	22.6	22.1	21.7	21.2	30.0
32.0	22.2	22.0	21.9	21.6	21.5	21.3	21.1	21.0	20.8	20.5	20.2	19.8	19.3	32.0
34.0	20.3	20.1	20.0	19.7	19.6	19.4	19.2	19.1	18.9	18.6	18.4	18.1	17.6	34.0
36.0	18.6	18.5	18.3	18.1	17.9	17.7	17.5	17.4	17.2	16.9	16.8	16.6	16.1	36.0
38.0	17.2	17.0	16.9	16.6	16.5	16.2	16.0	15.9	15.7	15.4	15.3	15.2	14.7	38.0
40.0	15.9	15.7	15.5	15.3	15.2	14.9	14.7	14.6	14.4	14.1	13.9	13.8	13.5	40.0
42.0	14.7	14.5	14.4	14.1	14.0	13.7	13.5	13.4	13.2	12.9	12.8	12.7	12.4	42.0
44.0	13.7	13.5	13.3	13.0	12.9	12.6	12.5	12.3	12.1	11.8	11.7	11.6	11.3	44.0
46.0	12.7	12.5	12.4	12.1	12.0	11.7	11.5	11.4	11.2	10.9	10.7	10.6	10.4	46.0
48.0	11.9	11.6	11.5	11.2	11.1	10.8	10.7	10.5	10.3	10.0	9.8	9.7	9.4	48.0
50.0	49.1 m/11.4	10.9	10.7	10.4	10.3	10.0	9.9	9.7	9.5	9.1	8.9	8.8	8.5	50.0
52.0		51.8 m/10.2	10.0	9.7	9.6	9.3	9.1	8.9	8.7	8.3	8.1	8.0	7.7	52.0
54.0			9.3	9.1	8.9	8.6	8.4	8.2	7.9	7.6	7.4	7.2	7.0	54.0
56.0			54.4 m/9.2	8.4	8.3	7.9	7.7	7.5	7.2	6.9	6.7	6.5	6.3	56.0
58.0				57.1 m/8.1	7.7	7.3	7.1	6.9	6.6	6.3	6.1	5.9	5.6	58.0
60.0					59.7 m/7.2	6.7	6.5	6.3	6.0	5.7	5.5	5.3	5.0	60.0
62.0						6.2	6.0	5.8	5.5	5.1	4.9	4.8	4.5	62.0
64.0							62.3 m/6.1	5.5	5.3	5.0	4.6	4.4	4.0	64.0
66.0								65.0 m/5.3	4.8	4.5	4.2	4.0	3.8	66.0
68.0									67.6 m/4.5	4.1	3.7	3.5	3.3	68.0
70.0										3.7	3.3	3.1	2.9	70.0
72.0										70.2 m/3.6	2.9	2.7	2.5	72.0
74.0											72.9 m/2.8	2.4		74.0
Reeves	7	6	6	5	5	5	5	4	4	4	3	3	3	Reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Auxiliary Sheave Lifting Capacity for Crane Boom (With 70 t Main Hook)

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

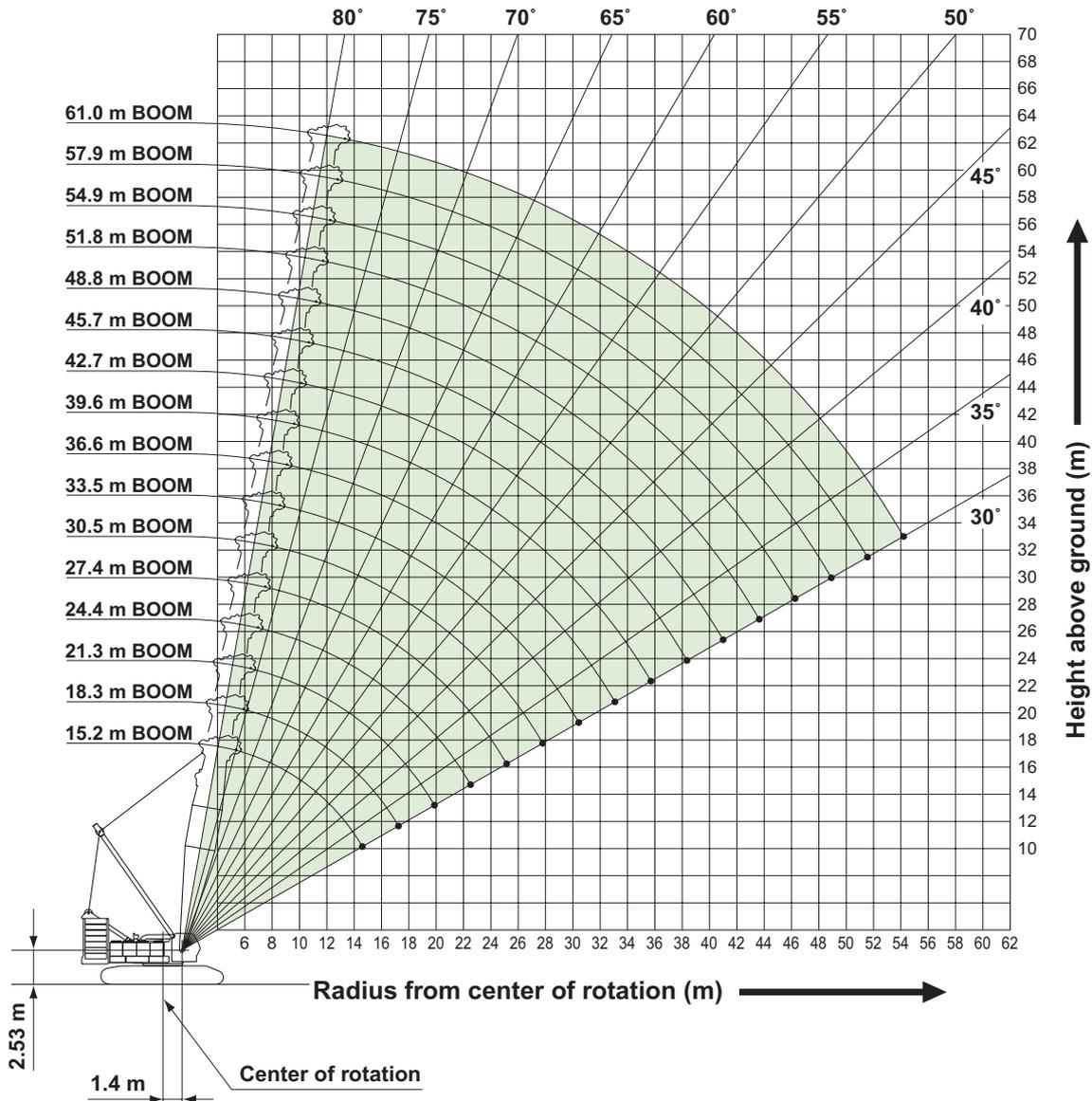
Working radius (m)	Boom Length (m)														Working radius (m)
	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	48.8	51.8		
5.0	5.4 m/27.0	5.8 m/27.0													5.0
6.0	27.0	27.0	6.3 m/27.0	6.9 m/27.0											6.0
7.0	27.0	27.0	27.0	27.0	7.4 m/27.0	7.9 m/27.0									7.0
8.0	27.0	27.0	27.0	27.0	27.0	27.0	8.5 m/27.0								8.0
9.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	9.5 m/27.0						9.0
10.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	10.6 m/27.0	11.1 m/27.0	11.6 m/27.0		10.0
12.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	12.0
14.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	14.0
16.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	16.0
18.0	16.5 m/27.0	19.2 m/27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	18.0
20.0			27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	20.0
22.0			21.8 m/27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	22.0
24.0				27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	24.0
26.0				24.4 m/27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	26.0
28.0					27.1 m/26.6	26.4	26.5	26.4	26.3	26.2	25.9	25.8	25.6		28.0
30.0						29.7 m/23.5	24.0	23.9	23.7	23.4	23.3	23.1	23.1		30.0
32.0							32.4 m/21.0	21.9	21.6	21.5	21.2	21.1	20.9		32.0
34.0								19.9	19.7	19.6	19.3	19.2	19.0		34.0
36.0								35.0 m/18.9	17.8	18.0	17.7	17.6	17.4		36.0
38.0									37.6 m/16.3	16.5	16.2	16.1	15.9		38.0
40.0										15.0	14.9	14.8	14.6		40.0
42.0										40.3 m/14.8	13.6	13.7	13.4		42.0
44.0											42.9 m/13.0	12.6	12.4		44.0
46.0												45.6 m/11.7	11.5		46.0
48.0													10.6		48.0
50.0													48.2 m/10.5		50.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

Working radius (m)	Boom Length (m)														Working radius (m)
	54.9	57.9	61.0	64.0	67.1	70.1	73.2	76.2	79.3	82.3	85.3	88.4			
12.0	12.2 m/27.0	12.7 m/27.0	13.2 m/27.0	13.7 m/27.0											12.0
14.0	27.0	27.0	27.0	27.0	14.3 m/27.0	14.8 m/27.0	15.3 m/27.0	15.9 m/27.0							14.0
16.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	16.4 m/27.0	16.9 m/27.0	17.4 m/27.0				16.0
18.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0			18.0
20.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0		20.0
22.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0		22.0
24.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0		24.0
26.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	26.5	25.8	25.3	24.8			26.0
28.0	25.4	25.3	25.1	24.9	24.8	24.5	24.4	24.3	23.9	23.3	22.8	22.4			28.0
30.0	22.9	22.7	22.6	22.3	22.2	22.0	21.8	21.7	21.5	21.1	20.6	20.2			30.0
32.0	20.7	20.5	20.4	20.1	20.0	19.8	19.6	19.5	19.3	19.0	18.7	18.3			32.0
34.0	18.8	18.6	18.5	18.2	18.1	17.9	17.7	17.6	17.4	17.1	16.9	16.6			34.0
36.0	17.1	17.0	16.8	16.6	16.4	16.2	16.0	15.9	15.7	15.4	15.3	15.1			36.0
38.0	15.7	15.5	15.4	15.1	15.0	14.7	14.5	14.4	14.2	13.9	13.8	13.7			38.0
40.0	14.4	14.2	14.0	13.8	13.7	13.4	13.2	13.1	12.9	12.6	12.4	12.3			40.0
42.0	13.2	13.0	12.9	12.6	12.5	12.2	12.0	11.9	11.7	11.4	11.3	11.2			42.0
44.0	12.2	12.0	11.8	11.5	11.4	11.1	11.0	10.8	10.6	10.3	10.2	10.1			44.0
46.0	11.2	11.0	10.9	10.6	10.5	10.2	10.0	9.9	9.7	9.4	9.2	9.1			46.0
48.0	10.4	10.1	10.0	9.7	9.6	9.3	9.2	9.0	8.8	8.5	8.3	8.2			48.0
50.0	9.6	9.4	9.2	8.9	8.8	8.5	8.4	8.2	8.0	7.6	7.4	7.3			50.0
52.0	50.8 m/9.3	8.7	8.5	8.2	8.1	7.8	7.6	7.4	7.2	6.8	6.6	6.5			52.0
54.0		53.5 m/8.2	7.8	7.6	7.4	7.1	6.9	6.7	6.4	6.1	5.9	5.7			54.0
56.0			7.1	6.9	6.8	6.4	6.2	6.0	5.7	5.4	5.2	5.0			56.0
58.0			56.1 m/7.1	6.2	6.2	5.8	5.6	5.4	5.1	4.8	4.6	4.4			58.0
60.0				58.8 m/5.9	5.6	5.2	5.0	4.8	4.5	4.2	4.0	3.8			60.0
62.0					61.4 m/5.2	4.7	4.5	4.3	4.0	3.6	3.4	3.3			62.0
64.0						4.2	4.0	3.8	3.5	3.1	2.9	2.8			64.0
66.0							3.5	3.3	3.0	2.7	2.5				66.0
68.0							66.7 m/3.3	2.8	2.6						68.0
70.0								69.3 m/2.5							70.0
Reeves	2	2	2	2	2	2	2	2	2	2	2	2	2	2	Reeves

Note: Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.

- Others**
- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Luffing Boom Working Ranges



NOTES:

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. The boom should be erected over the front of crawlers, not laterally.
13. Ratings shown in are determined by the strength of the boom or other structural component.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Luffing boom ratings: Deduct weight of hook block, slings, and all other load handling accessories from luffing boom ratings shown.
16. Auxiliary sheave ratings for luffing boom: Deduct weight of hook block, slings, and all other load handling accessories from auxiliary sheave ratings for luffing boom shown.
17. Luffing boom lengths for auxiliary sheave mounting are 15.2 m to 61.0 m.

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800

**250t
CKE2500-2**

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Auxiliary Sheave Lifting Capacity for Luffing Boom (With 70 t Main Hook)

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

Working radius (m) \ Boom length (m)	15.2	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	42.7	45.7	Working radius (m) \ Boom length (m)
6.0	6.2 m/13.5	6.7 m/13.5										6.0
7.0	13.5	13.5	7.2 m/13.5	7.8 m/13.5								7.0
8.0	13.5	13.5	13.5	13.5	8.3 m/13.5	8.8 m/13.5						8.0
9.0	13.5	13.5	13.5	13.5	13.5	13.5	9.4 m/13.5	9.9 m/13.5				9.0
10.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	10.4 m/13.5	10.9 m/13.5	11.5 m/13.5	10.0
12.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.0
14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	14.0
16.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	16.0
18.0	16.6 m/13.5	19.2 m/13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0
20.0			13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	20.0
22.0			21.9 m/13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	22.0
24.0				13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	24.0
26.0				24.5 m/13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	26.0
28.0					27.1 m/13.5	13.5	13.5	13.5	13.5	13.5	13.5	28.0
30.0						29.8 m/13.5	13.5	13.5	13.5	13.5	13.5	30.0
32.0							32.4 m/13.5	13.5	13.5	13.5	13.5	32.0
34.0								13.5	13.5	13.5	13.5	34.0
36.0								35.1 m/13.5	13.5	13.5	13.5	36.0
38.0									37.7 m/13.5	13.5	13.5	38.0
40.0										13.5	13.5	40.0
42.0										40.3 m/13.5	13.5	42.0
44.0											43.0 m/12.9	44.0
Reeves	1	1	1	1	1	1	1	1	1	1	1	Reeves

Working radius (m) \ Boom length (m)	48.8	51.8	54.9	57.9	61.0	Working radius (m) \ Boom length (m)
12.0	13.5	12.5 m/13.5	13.1 m/13.5	13.6 m/13.5		12.0
14.0	13.5	13.5	13.5	13.5	14.1 m/13.5	14.0
16.0	13.5	13.5	13.5	13.5	13.5	16.0
18.0	13.5	13.5	13.5	13.5	13.5	18.0
20.0	13.5	13.5	13.5	13.5	13.5	20.0
22.0	13.5	13.5	13.5	13.5	13.5	22.0
24.0	13.5	13.5	13.5	13.5	13.5	24.0
26.0	13.5	13.5	13.5	13.5	13.5	26.0
28.0	13.5	13.5	13.5	13.5	13.5	28.0
30.0	13.5	13.5	13.5	13.5	13.5	30.0
32.0	13.5	13.5	13.5	13.5	13.5	32.0
34.0	13.5	13.5	13.5	13.5	13.5	34.0
36.0	13.5	13.5	13.5	13.5	13.5	36.0
38.0	13.5	13.5	13.5	13.5	13.5	38.0
40.0	13.5	13.5	13.5	13.5	13.5	40.0
42.0	13.3	13.1	12.9	12.8	12.5	42.0
44.0	12.3	12.1	11.8	11.7	11.5	44.0
46.0	45.6 m/11.5	11.2	10.9	10.8	10.5	46.0
48.0		10.3	10.0	9.9	9.7	48.0
50.0		48.3 m/10.2	9.1	9.2	8.9	50.0
52.0			50.9 m/8.7	8.5	8.2	52.0
54.0				53.5 m/8.0	7.5	54.0
56.0					6.8	56.0
58.0					56.2 m/6.7	58.0
60.0						60.0
62.0						62.0
Reeves	1	1	1	1	1	Reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

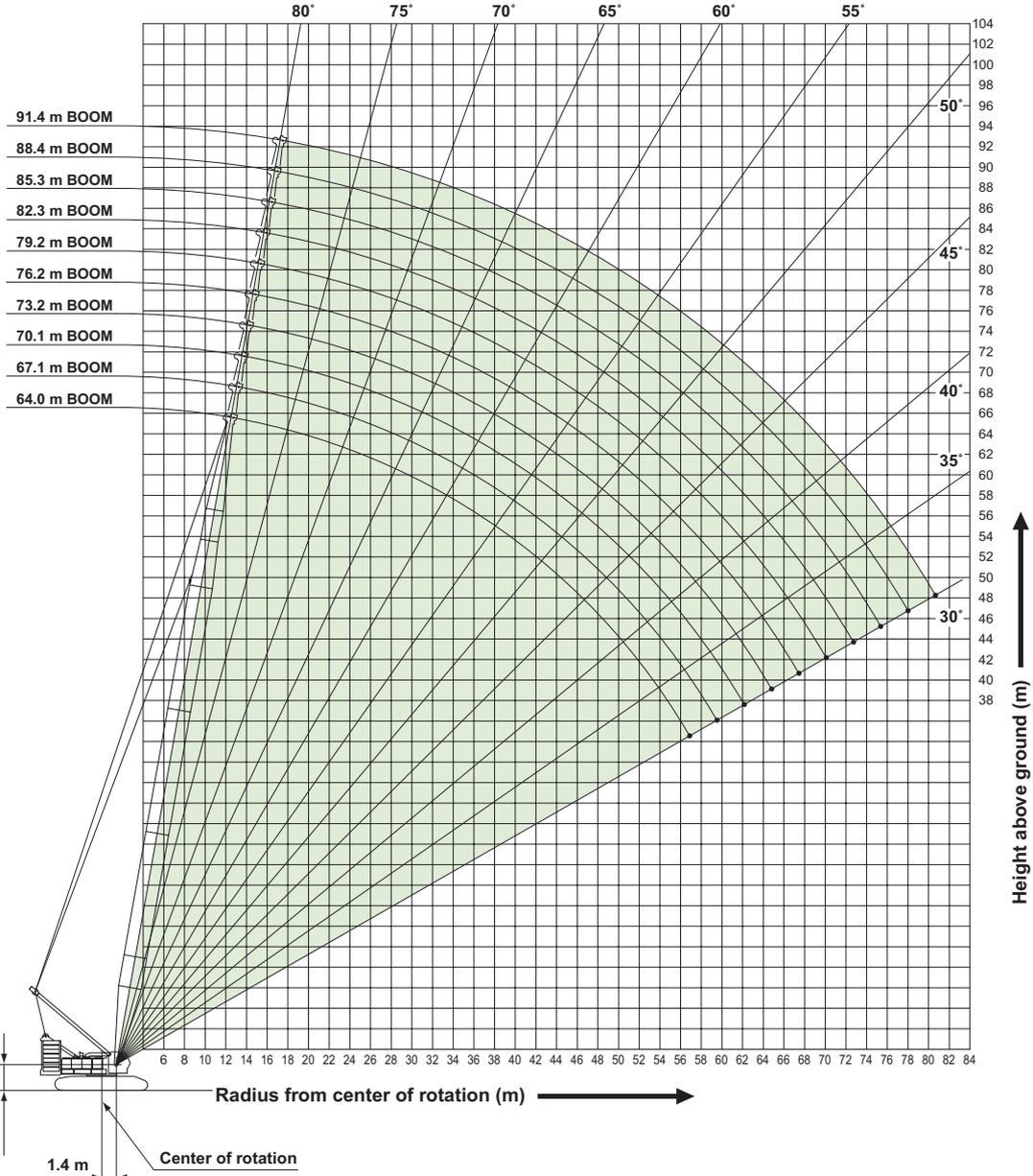
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Long Boom Working Ranges



NOTES:

- Ratings according to EN13000.
- Ratings in metric tons for 360° working area.
- Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
- Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
- Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for operation on a firm and level surface, up to 1% gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "Operator's Manual".
- Boom hoist reeving is 16 part line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of crawlers, not laterally.
- Ratings shown in are determined by the strength of the boom or other structural component.
- Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
- Long boom ratings: Deduct weight of hook block, slings, and all other load handling accessories from long boom ratings shown.
- Auxiliary sheave ratings for long boom: Deduct weight of hook block, slings, and all other load handling accessories from auxiliary sheave ratings for long boom shown.
- Long boom lengths for auxiliary sheave mounting are 64.0 m to 91.4 m.

250t
CKE2500-2

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Long Boom Lifting Capacity

Unit: metric ton

Counterweight: 90.0 t,
Carbody weight: 24.0 t

Working radius (m)	64.0		67.1		70.1		73.2		76.2		79.2		82.3		Working radius (m)
	Boom length (m)	Working radius (m)													
12.0	12.8 m/47.1	13.3 m/46.1	13.8 m/45.0											12.0	
14.0	45.0	44.9	44.8	14.3 m/44.2	14.9 m/41.1	15.4 m/36.2	15.9 m/32.3	16.0						14.0	
16.0	42.0	41.9	41.8	41.7	39.6	35.5	32.2	16.0						16.0	
18.0	39.4	39.3	39.2	39.1	37.2	33.2	30.1	18.0						18.0	
20.0	37.2	37.1	37.0	36.9	35.1	31.3	28.3	20.0						20.0	
22.0	35.2	35.1	35.0	34.9	33.3	29.6	26.7	22.0						22.0	
24.0	33.4	33.3	33.2	33.1	31.7	28.0	25.2	24.0						24.0	
26.0	31.5	31.3	31.2	30.9	30.2	26.7	24.0	26.0						26.0	
28.0	28.5	28.3	28.1	27.9	27.8	25.5	22.8	28.0						28.0	
30.0	25.9	25.7	25.6	25.4	25.3	24.4	21.8	30.0						30.0	
32.0	23.7	23.5	23.4	23.1	23.0	22.9	20.9	32.0						32.0	
34.0	21.8	21.6	21.5	21.2	21.1	21.0	20.1	34.0						34.0	
36.0	20.1	19.9	19.8	19.5	19.4	19.3	19.2	36.0						36.0	
38.0	18.7	18.4	18.3	18.1	18.0	17.9	17.8	38.0						38.0	
40.0	17.3	17.1	17.0	16.7	16.6	16.5	16.4	40.0						40.0	
42.0	16.2	15.9	15.8	15.5	15.4	15.3	15.2	42.0						42.0	
44.0	15.1	14.8	14.7	14.5	14.4	14.3	14.2	44.0						44.0	
46.0	14.1	13.9	13.7	13.5	13.4	13.3	13.2	46.0						46.0	
48.0	13.3	13.0	12.9	12.6	12.5	12.4	12.3	48.0						48.0	
50.0	12.5	12.2	12.1	11.8	11.7	11.6	11.5	50.0						50.0	
52.0	11.7	11.5	11.3	11.1	11.0	10.9	10.8	52.0						52.0	
54.0	11.1	10.8	10.7	10.4	10.3	10.2	10.1	54.0						54.0	
56.0	10.4	10.2	10.0	9.8	9.7	9.6	9.5	56.0						56.0	
58.0	56.9 m/ 10.2	9.6	9.5	9.2	9.1	9.0	8.9	58.0						58.0	
60.0		59.6 m/ 9.2	8.9	8.7	8.6	8.5	8.4	60.0						60.0	
62.0			8.5	8.2	8.1	8.0	7.9	62.0						62.0	
64.0			62.2 m/ 8.4	7.7	7.6	7.5	7.4	64.0						64.0	
66.0				64.9 m/ 7.6	7.2	7.1	7.0	66.0						66.0	
68.0					67.5 m/ 6.9	6.8	6.7	68.0						68.0	
70.0						6.4	6.3	70.0						70.0	
72.0						70.2 m/ 6.3	6.0	72.0						72.0	
74.0							72.8 m/ 5.9	74.0						74.0	
Reeves	4	4	4	4	4	3	3	Reeves							

Working radius (m)	85.3		88.4		91.4		Working radius (m)
	Boom length (m)	Working radius (m)	Boom length (m)	Working radius (m)	Boom length (m)	Working radius (m)	
16.0	16.5 m/27.0	17.0 m/24.9	17.5 m/21.3	16.0			16.0
18.0	27.0	24.0	20.9	18.0			18.0
20.0	25.3	22.4	19.5	20.0			20.0
22.0	23.9	21.1	18.3	22.0			22.0
24.0	22.6	19.9	17.3	24.0			24.0
26.0	21.4	18.9	16.3	26.0			26.0
28.0	20.4	18.0	15.5	28.0			28.0
30.0	19.5	17.1	14.8	30.0			30.0
32.0	18.6	16.4	14.1	32.0			32.0
34.0	17.9	15.7	13.6	34.0			34.0
36.0	17.2	15.1	13.0	36.0			36.0
38.0	16.6	14.6	12.6	38.0			38.0
40.0	16.1	14.1	12.1	40.0			40.0
42.0	15.1	13.6	11.7	42.0			42.0
44.0	14.1	13.2	11.4	44.0			44.0
46.0	13.1	12.8	11.0	46.0			46.0
48.0	12.2	12.3	10.7	48.0			48.0
50.0	11.4	11.3	10.5	50.0			50.0
52.0	10.7	10.6	10.2	52.0			52.0
54.0	10.0	9.9	9.8	54.0			54.0
56.0	9.4	9.3	9.2	56.0			56.0
58.0	8.8	8.7	8.6	58.0			58.0
60.0	8.3	8.2	8.1	60.0			60.0
62.0	7.8	7.7	7.6	62.0			62.0
64.0	7.3	7.2	7.1	64.0			64.0
66.0	6.9	6.8	6.7	66.0			66.0
68.0	6.6	6.5	6.4	68.0			68.0
70.0	6.2	6.1	5.9	70.0			70.0
72.0	5.9	5.8	5.7	72.0			72.0
74.0	5.6	5.5	5.4	74.0			74.0
76.0	75.4 m/5.4	5.3	5.1	76.0			76.0
78.0		4.9	4.8	78.0			78.0
80.0			4.5	80.0			80.0
82.0			80.7 m/4.4	82.0			82.0
84.0				84.0			84.0
Reeves	2	2	2	Reeves			

Note:
Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Auxiliary Sheave Lifting Capacity for Long Boom Unit: metric ton (With 35 t Main Hook) Counterweight: 90.0 t, Carbody weight: 24.0 t

Working radius (m)	Boom length (m)												Boom length (m)	Working radius (m)
	64.0	67.1	70.1	73.2	76.2	79.2	82.3	85.3	88.4	91.4				
12.0	13.5 m/13.5													12.0
14.0	13.5	13.5	14.5 m/13.5	15.0 m/13.5	15.6 m/13.5									14.0
16.0	13.5	13.5	13.5	13.5	13.5	16.1 m/13.5	16.6 m/13.5	17.2 m/13.5	17.7 m/13.5					16.0
18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.2 m/13.5				18.0
20.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5			20.0
22.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5			22.0
24.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5			24.0
26.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5			26.0
28.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5			28.0
30.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5			30.0
32.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5			32.0
34.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5			34.0
36.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5			36.0
38.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.3	11.3			38.0
40.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.8	10.8			40.0
42.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.3	10.4			42.0
44.0	13.5	13.5	13.4	13.2	13.1	13.0	12.9	12.8	11.9	10.1	10.1			44.0
46.0	12.8	12.6	12.4	12.2	12.1	12.0	11.9	11.8	11.5	9.7	9.7			46.0
48.0	12.0	11.7	11.6	11.3	11.2	11.1	11.0	10.9	11.0	9.4	9.4			48.0
50.0	11.2	10.9	10.8	10.5	10.4	10.3	10.2	10.1	10.0	9.2	9.2			50.0
52.0	10.4	10.2	10.0	9.8	9.7	9.6	9.5	9.4	9.3	8.9	8.9			52.0
54.0	9.8	9.5	9.4	9.1	9.0	8.9	8.8	8.7	8.6	8.5	8.5			54.0
56.0	9.1	8.9	8.7	8.5	8.4	8.3	8.2	8.1	8.0	7.9	7.9			56.0
58.0	8.4	8.3	8.2	7.9	7.8	7.7	7.6	7.5	7.4	7.3	7.3			58.0
60.0		7.7	7.6	7.4	7.3	7.2	7.1	7.0	6.9	6.8	6.8			60.0
62.0		60.7 m/7.5	7.2	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.3			62.0
64.0			63.3 m/6.9	6.4	6.3	6.2	6.1	6.0	5.9	5.8	5.8			64.0
66.0				5.9	5.9	5.8	5.7	5.6	5.5	5.4	5.4			66.0
68.0					5.5	5.5	5.4	5.3	5.2	5.1	5.1			68.0
70.0					68.6 m/5.4	5.1	5.0	4.9	4.8	4.6	4.6			70.0
72.0						71.3 m/4.8	4.7	4.6	4.5	4.4	4.4			72.0
74.0							73.9 m/4.4	4.3	4.2	4.1	4.1			74.0
76.0								4.0	4.0	3.8	3.8			76.0
78.0								76.5 m/3.9	3.8	3.5	3.5			78.0
80.0									79.1 m/3.7	3.2	3.2			80.0
82.0										81.8 m/2.9	2.9			82.0
Reeves	1	1	1	1	1	1	1	1	1	1	1			Reeves

Note: Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.

250t
CKE2500-2

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

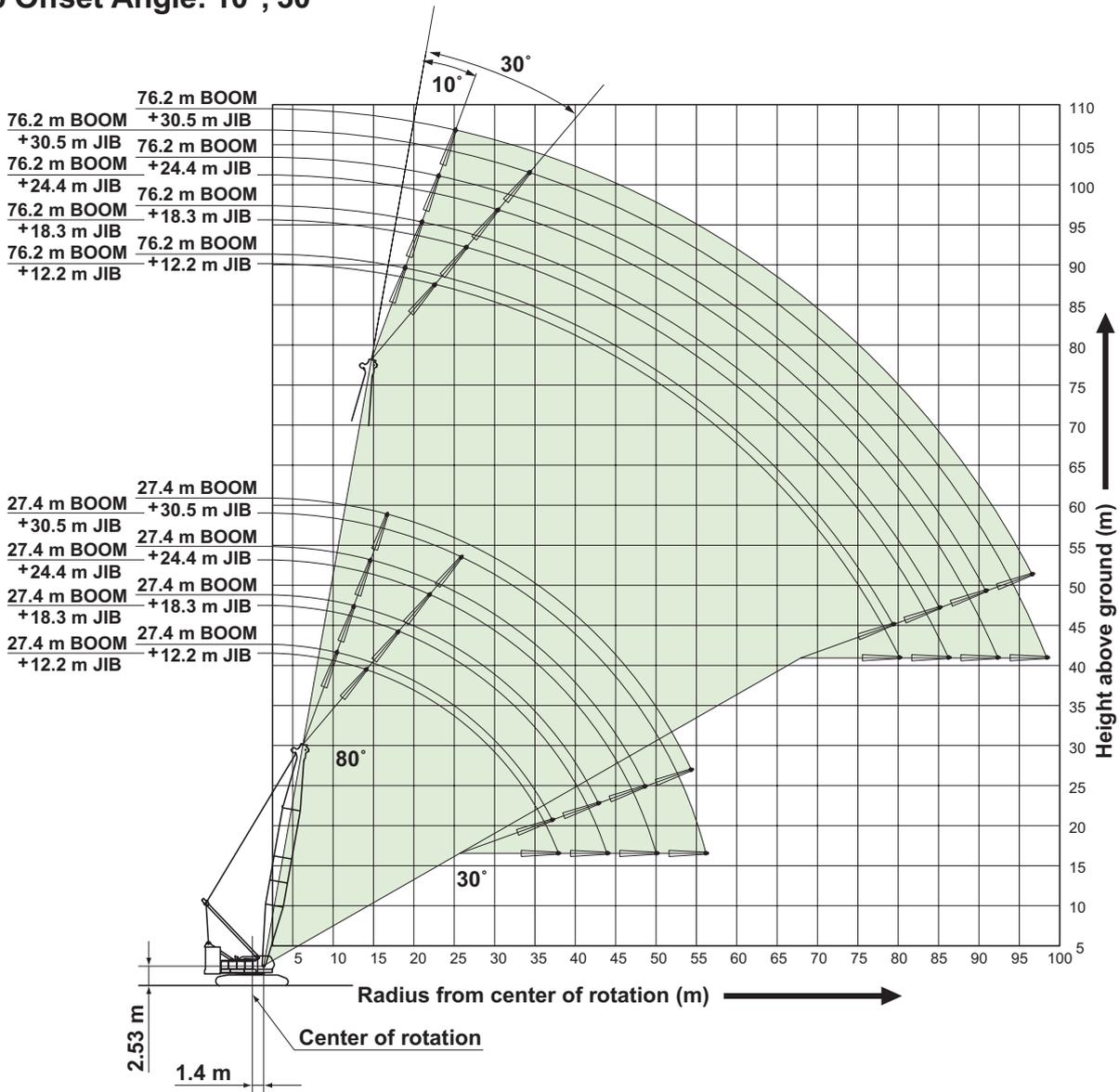
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Fixed Jib Working Ranges

Jib Offset Angle: 10°, 30°



NOTES:

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/ jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. The boom should be erected over the front of crawlers, not laterally.
13. Ratings shown in are determined by the strength of the boom or other structural component.
14. When erecting or lowering the boom length of 76.2 m, the pillow plate for erection must be placed at the end of crawlers.
15. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
16. Fixed jib ratings: Deduct weight of jib hook block, slings, and all other load handling accessories from fixed jib ratings shown.
17. Crane boom lengths for fixed jib mounting are 27.4 m to 76.2 m.
18. One part of line on hook is not allowed to use for 12.2 m jib length with offset angle 10 degrees.

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800

**250t
CKE2500-2**

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Working Ranges And Lifting Capacities

Fixed Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

Jib Offset Angle: 10°

Counterweight: 90.0 t, Carbody weight: 24.0 t

Boom length (m)	27.4				36.6				45.7				54.9				Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
10.0	10.4 m/27.0																10.0
12.0	25.5	12.5 m/21.2			26.6				13.6 m/26.5								12.0
14.0	24.3	20.4	14.6 m/12.1		25.5	14.1 m/21.2			26.3	15.7 m/21.2			15.2 m/26.4				14.0
16.0	23.0	19.3	11.8	16.7 m/6.8	24.5	20.3	16.2 m/12.1		25.4	21.0	17.8 m/12.1		26.2	17.3 m/21.1			16.0
18.0	21.8	18.4	11.2	6.5	23.6	19.4	11.7	18.3 m/6.8	24.6	20.2	12.1	19.9 m/6.7	25.4	20.9	19.4 m/12.1		18.0
20.0	20.7	17.5	10.7	6.2	22.7	18.6	11.2	6.5	23.8	19.5	11.6	6.7	24.7	20.2	12.0	21.5 m/6.8	20.0
22.0	19.8	16.8	10.3	5.9	21.9	17.9	10.8	6.2	23.0	18.8	11.3	6.4	23.9	19.5	11.6	6.7	22.0
24.0	18.9	16.1	9.9	5.6	21.2	17.2	10.4	5.9	22.2	18.1	10.9	6.2	23.2	18.9	11.3	6.4	24.0
26.0	18.1	15.4	9.4	5.3	20.5	16.6	10.1	5.7	21.5	17.5	10.5	5.9	22.5	18.3	10.9	6.2	26.0
28.0	17.3	14.3	9.1	5.1	19.8	16.1	9.7	5.4	20.7	17.0	10.2	5.7	21.9	17.8	10.6	6.0	28.0
30.0	16.7	13.4	8.7	4.9	19.1	15.5	9.4	5.2	20.0	16.5	9.9	5.5	21.3	17.3	10.3	5.8	30.0
34.0	15.5	11.9	8.1	4.5	17.8	13.8	8.7	4.8	18.6	15.6	9.3	5.1	20.1	16.4	9.8	5.4	34.0
38.0	37.1 m/14.5	10.7	7.6	4.2	16.4	12.4	8.2	4.5	17.1	14.0	8.8	4.8	17.4	15.6	9.2	5.1	38.0
42.0		9.8	7.1	3.9	15.3	11.3	7.7	4.2	15.5	12.8	8.3	4.5	14.9	14.2	8.8	4.8	42.0
46.0		42.9 m/9.7	6.8	3.7	45.1 m/14.4	10.5	7.3	4.0	13.6	11.8	7.9	4.2	12.8	13.1	8.3	4.5	46.0
50.0			48.6 m/6.6	3.5		9.8	7.0	3.8	11.9	11.0	7.5	4.0	11.1	11.6	8.0	4.3	50.0
54.0				3.2		50.8 m/9.6	6.7	3.6	53.0 m/10.9	10.3	7.2	3.8	9.7	10.1	7.6	4.1	54.0
58.0				54.3 m/3.1			56.5 m/6.5	3.4		9.7	6.9	3.7	8.5	8.9	7.3	3.9	58.0
62.0								3.2		58.7 m/9.6	6.7	3.5	60.9 m/7.8	7.8	7.1	3.7	62.0
66.0								62.3 m/3.1			64.4 m/6.5	3.4		6.9	6.8	3.6	66.0
70.0												3.1		66.6 m/6.8	6.5	3.5	70.0
74.0												70.2 m/3.1			72.4 m/6.1	3.4	74.0
78.0																3.2	78.0
82.0																78.1 m/3.2	82.0
Reeves	2	2	1	1	2	2	1	1	2	2	1	1	2	2	1	1	Reeves

Boom length (m)	64.0				73.2				76.2				Boom length (m)
Jib length (m)	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)
16.0	16.8 m/26.5												16.0
18.0	26.0	18.9 m/21.1			18.4 m/26.4				18.9 m/26.4				18.0
20.0	25.3	20.7	21.0 m/12.1		25.9	20.5 m/21.1			26.1	21.0 m/21.1			20.0
22.0	24.7	20.1	11.9	23.0 m/6.7	25.3	20.6	22.5 m/12.1		25.1	20.8	23.1 m/12.0		22.0
24.0	24.1	19.5	11.6	6.6	24.7	20.0	11.8	24.6 m/6.7	24.9	20.2	11.9	25.2 m/6.7	24.0
26.0	23.5	19.0	11.3	6.4	24.2	19.5	11.5	6.5	24.4	19.7	11.6	6.6	26.0
28.0	23.0	18.4	11.0	6.2	23.7	19.0	11.2	6.3	23.9	19.2	11.3	6.4	28.0
30.0	22.4	18.0	10.7	6.0	22.6	18.5	11.0	6.2	21.7	18.7	11.1	6.2	30.0
34.0	19.8	17.1	10.2	5.6	18.9	17.7	10.5	5.8	18.3	17.9	10.6	5.9	34.0
38.0	16.6	16.3	9.7	5.3	15.8	16.3	10.0	5.5	15.5	15.9	10.1	5.6	38.0
42.0	14.1	14.5	9.2	5.0	13.3	13.8	9.6	5.2	13.0	13.5	9.7	5.3	42.0
46.0	12.0	12.5	8.8	4.7	11.2	11.7	9.2	4.9	10.9	11.4	9.3	5.0	46.0
50.0	10.3	10.7	8.4	4.5	9.5	10.0	8.8	4.7	9.2	9.7	8.9	4.8	50.0
54.0	8.9	9.3	8.0	4.3	8.1	8.5	8.4	4.5	7.8	8.2	8.5	4.5	54.0
58.0	7.7	8.1	7.7	4.1	6.9	7.3	7.8	4.3	6.5	7.0	7.6	4.4	58.0
62.0	6.6	7.0	7.5	3.9	5.8	6.2	6.8	4.1	5.5	5.9	6.5	4.2	62.0
66.0	5.7	6.1	6.6	3.8	4.9	5.3	5.8	4.0	4.6	5.0	5.5	4.0	66.0
70.0	68.8 m/5.1	5.3	5.7	3.6	4.1	4.5	5.0	3.8	3.7	4.1	4.7	3.9	70.0
74.0		4.6	5.0	3.5	3.4	3.7	4.3	3.7	3.0	3.4	4.0	3.7	74.0
78.0		74.6 m/4.5	4.3	3.4	76.7 m/2.9	3.1	3.6	3.6	2.4	2.8	3.3	3.5	78.0
82.0			80.3 m/4.0	3.4		2.5	3.0	3.3	79.4 m/2.2	2.2	2.7	3.0	82.0
86.0				3.2		82.5 m/2.5	2.5	2.7		85.1 m/1.8	2.2	2.5	86.0
90.0							88.2 m/2.2	2.1			1.7	2.0	90.0
94.0								93.9 m/1.8			90.8 m/1.5	1.6	94.0
98.0												96.6 m/1.3	98.0
Reeves	2	2	1	1	2	2	1	1	2	2	1	1	Reeves

Note: Ratings according to EN13000.
 Ratings shown in are determined by the strength of the boom or other structural components.
 ※One part of line on hook is not allowed to use for 12.2 m jib length with offset angle 10 degrees.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

Jib Offset Angle: 30°

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

Boom length (m)		27.4				36.6				45.7				54.9				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	14.0	14.1 m/19.3				15.7 m/19.3												14.0	
	16.0	18.7				19.2				17.3 m/19.2								16.0	
	18.0	17.9	13.5			18.7	19.6 m/13.5			19.1				18.9 m/19.2				18.0	
	20.0	16.8	13.5	21.9 m/8.2		18.1	13.5			18.7	21.2 m/13.5			19.0				20.0	
	22.0	15.9	13.1	8.2		17.2	13.5	23.5 m/8.1		18.2	13.5			18.6	22.8 m/13.5			22.0	
	24.0	15.2	12.6	7.9	25.9 m/4.4	16.4	13.1	8.1		17.4	13.4	25.1 m/8.1		18.2	13.5			24.0	
	26.0	14.5	12.0	7.6	4.4	15.7	12.8	7.9	27.5 m/4.3	16.7	13.2	8.0		17.6	13.4	26.7 m/8.1		26.0	
	28.0	13.9	11.4	7.4	4.2	15.1	12.3	7.6	4.3	16.1	12.9	7.8	29.0 m/4.4	17.0	13.2	8.0		28.0	
	30.0	13.4	10.9	7.2	4.1	14.6	11.8	7.4	4.2	15.6	12.5	7.6	4.3	16.4	12.9	7.8	30.6 m/4.3	30.0	
	34.0	12.7	10.0	6.8	3.8	13.7	10.9	7.1	4.0	14.6	11.6	7.3	4.1	15.5	12.2	7.5	4.2	34.0	
	38.0	37.9 m/12.4	9.4	6.5	3.7	13.0	10.2	6.8	3.8	13.9	10.9	7.0	3.9	14.7	11.5	7.2	4.0	38.0	
	42.0		9.0	6.2	3.5	12.6	9.6	6.5	3.6	13.3	10.3	6.7	3.7	14.0	10.9	6.9	3.8	42.0	
	46.0		44.0 m/8.9	6.1	3.3	45.8 m/12.4	9.2	6.3	3.5	12.8	9.8	6.5	3.6	13.2	10.4	6.7	3.7	46.0	
	50.0			6.1	3.3		8.9	6.1	3.4	12.1	9.4	6.3	3.5	11.4	9.9	6.5	3.6	50.0	
	54.0			50.1 m/6.1	3.0		51.9 m/8.9	6.1	3.3	53.7 m/10.7	9.1	6.2	3.4	9.9	9.5	6.4	3.5	54.0	
	58.0				56.2 m/2.8			6.1	3.1		8.9	6.1	3.3	8.6	9.2	6.2	3.4	58.0	
	62.0								2.9		59.8 m/8.9	6.1	3.3	61.6 m/7.6	8.2	6.1	3.3	62.0	
	66.0									64.1 m/2.8			65.9 m/6.1	3.1		7.2	6.0	3.2	66.0
	70.0													2.9		67.7 m/6.8	6.0	3.2	70.0
	74.0															72.0 m/2.8		3.1	74.0
78.0																	2.9	78.0	
82.0																	79.9 m/2.8	82.0	
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	2	1	1	1	Reeves		

Boom length (m)		64.0				73.2				76.2				Boom length (m)	
Jib length (m)		12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	12.2	18.3	24.4	30.5	Jib length (m)	
Working radius (m)	20.0	20.5 m/19.2													20.0
	22.0	18.9				19.1				22.6 m/19.1					22.0
	24.0	18.6	24.4 m/13.5			18.8				18.9					24.0
	26.0	18.3	13.5			18.6	13.5			18.7	26.5 m/13.5				26.0
	28.0	17.7	13.4	28.3 m/8.1		18.3	13.5	29.9 m/8.1		18.4	13.5				28.0
	30.0	17.2	13.2	7.9	32.2 m/4.3	17.8	13.4	8.0	33.8 m/4.3	18.0	13.4	30.4 m/8.0			30.0
	34.0	16.2	12.8	7.6	4.2	16.8	13.0	7.8	4.3	17.0	13.1	7.8	34.3 m/4.3		34.0
	38.0	15.4	12.0	7.4	4.1	16.0	12.5	7.5	4.1	16.2	12.7	7.5	4.2		38.0
	42.0	14.6	11.4	7.1	3.9	13.9	11.9	7.3	4.0	13.6	12.0	7.3	4.0		42.0
	46.0	12.4	10.9	6.9	3.8	11.7	11.3	7.1	3.8	11.5	11.5	7.1	3.9		46.0
	50.0	10.7	10.4	6.7	3.7	10.0	10.9	6.9	3.7	9.7	10.6	6.9	3.8		50.0
	54.0	9.2	10.0	6.5	3.6	8.5	9.3	6.7	3.6	8.2	9.1	6.7	3.7		54.0
	58.0	7.9	8.7	6.4	3.4	7.2	8.0	6.5	3.5	6.9	7.7	6.6	3.5		58.0
	62.0	6.8	7.5	6.3	3.4	6.1	6.9	6.4	3.4	5.8	6.6	6.4	3.5		62.0
	66.0	5.8	6.5	6.1	3.3	5.1	5.8	6.3	3.4	4.8	5.6	6.1	3.4		66.0
	70.0	69.6 m/5.1	5.6	6.1	3.3	4.2	5.0	5.5	3.3	3.9	4.7	5.2	3.3		70.0
	74.0		4.8	5.3	3.2	3.4	4.2	4.7	3.3	3.2	3.9	4.4	3.3		74.0
	78.0		75.7 m/4.5	4.6	3.2	77.5 m/2.9	3.4	3.9	3.2	2.5	3.2	3.7	3.2		78.0
	82.0			81.8 m/3.9	3.0		2.8	3.3	3.2	80.1 m/2.2	2.5	3.0	3.2		82.0
	86.0				2.9		83.6 m/2.5	2.7	2.9		1.9	2.4	2.8		86.0
90.0					87.8 m/2.8			89.7 m/2.1	2.5	86.2 m/1.9	1.8	2.3		90.0	
94.0									2.0		92.3 m/1.5	1.8		94.0	
98.0								95.8 m/1.7				1.4		98.0	
100.0												98.4 m/1.3		100.0	
Reeves	2	1	1	1	2	1	1	1	2	1	1	1	Reeves		

Note: Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

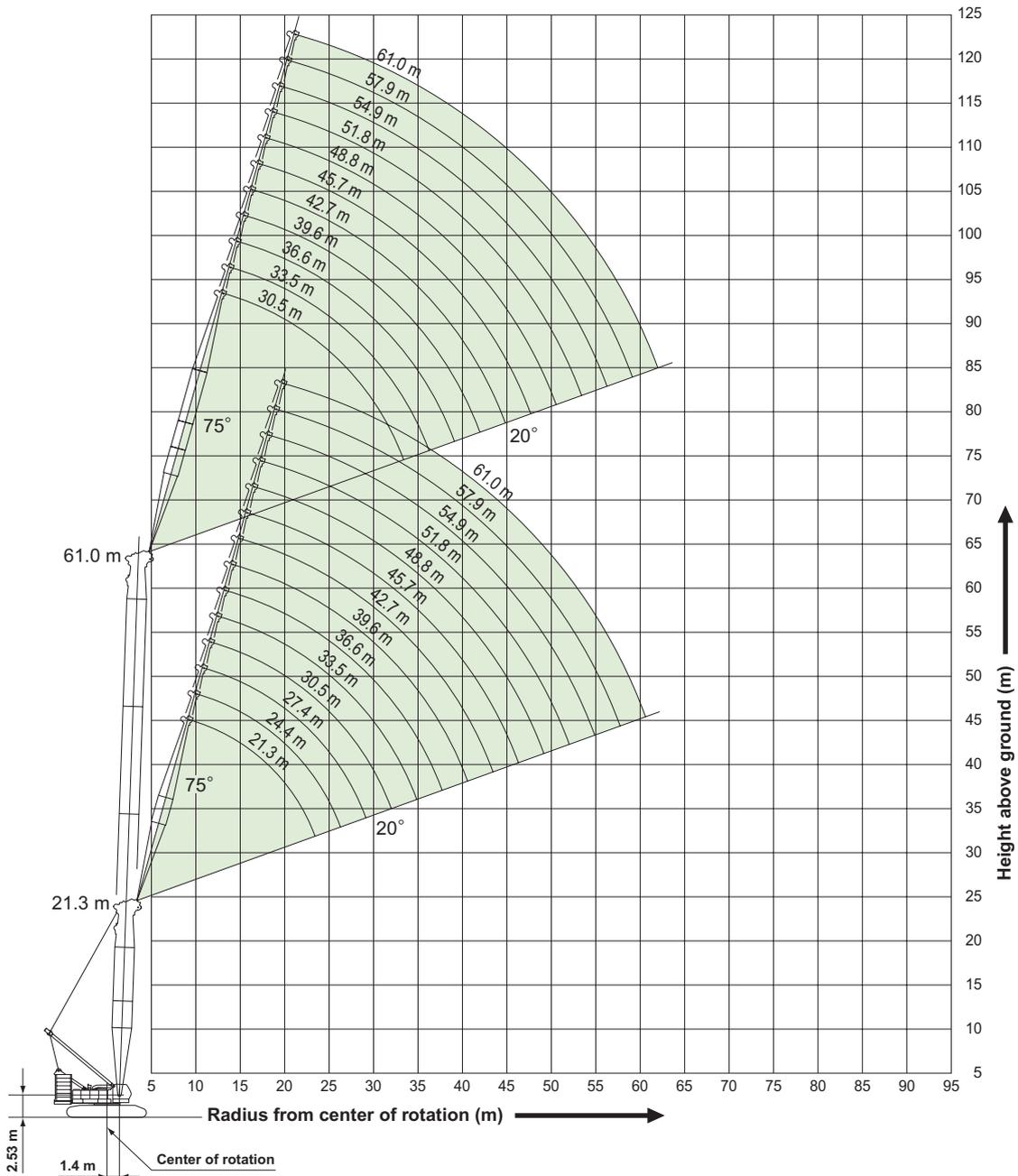
Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Luffing Jib Working Ranges

Boom Angle: 88°



NOTES:

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Weight of hook block(s), slings and other load handling accessories is included in rated load. Their total weight must be subtracted from rated load to obtain weight that can be lifted.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Luffing boom hoist reeving is 16 part line.
10. Luffing jib hoist reeving is 10 part line.

250t
CKE2500-2

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

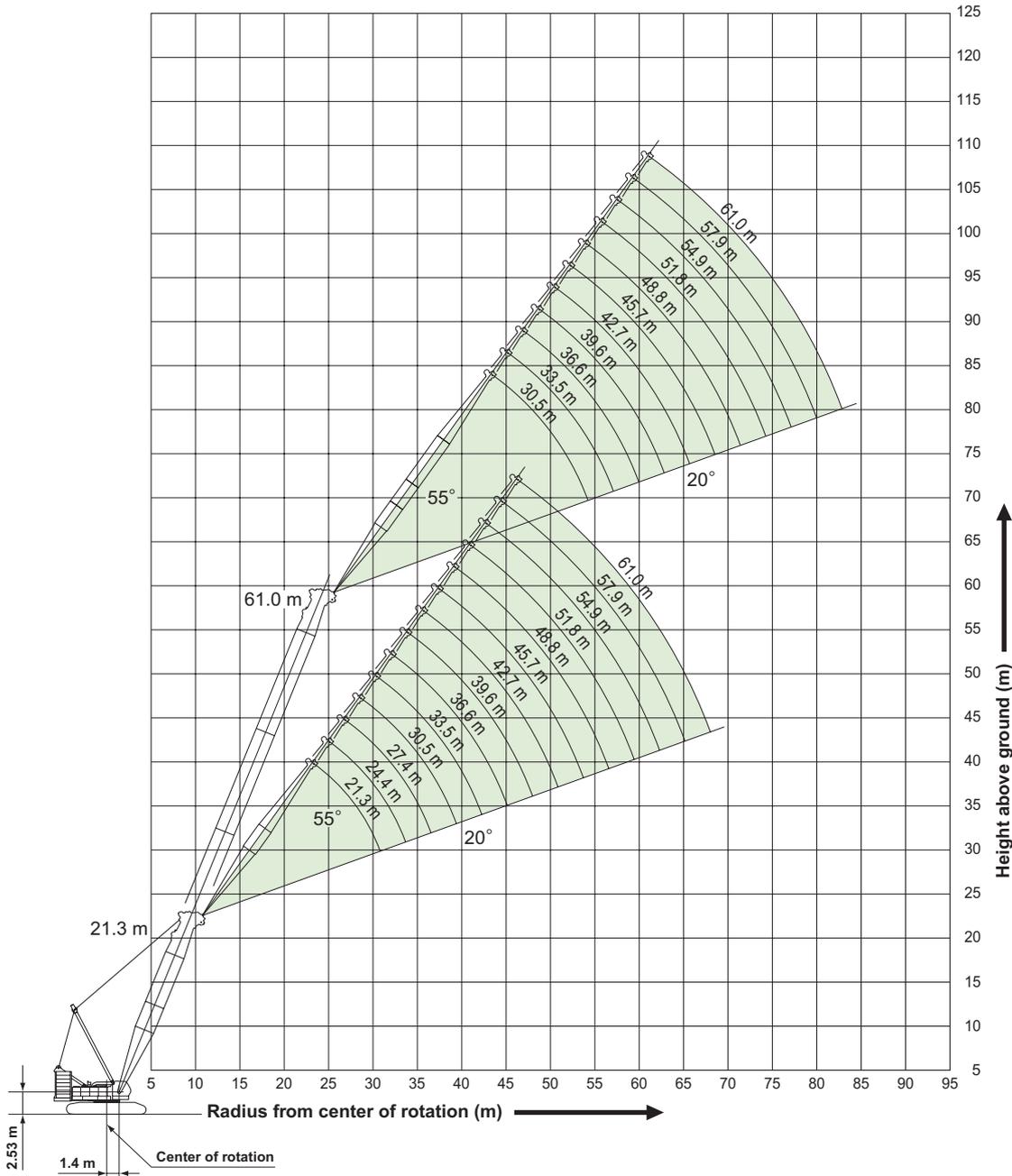
Excavator

Bull Dozer

**Vibro Roller
Baby Roller**

Motor Grader

Boom Angle: 68°



11. Gantry must be in raised position for all conditions.
12. Boom and jib backstops are required for all boom and jib combinations.
13. Ratings shown in are determined by the strength of the boom or other structural component.
14. The boom should be erected over the front of crawlers, not laterally.
15. When erecting or lowering the boom length of 54.9 m or over, the pillow plate for erection must be placed at the end of crawlers.
16. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
17. All luffing jib ratings and luffing boom ratings with luffing jib shown are calculated in the condition equipped with the auxiliary sheave frame.
18. Luffing jib ratings: Deduct weight of jib hook block, slings, and all other load handling accessories from luffing jib ratings shown.
19. Luffing boom ratings with luffing jib: Deduct weight of main hook block, slings and all other load handling accessories from luffing boom ratings with luffing jib shown.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Luffing Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

21.3 m Boom Length	21.3																	Boom length (m)			
	21.3																27.4	33.5	39.6	Jib length (m)	
	Boom angle	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle			
Working Radius (m)	9.8	80.0															9.8				
	10.0	79.3															10.0				
	12.0	72.2															12.0				
	14.0	65.1	65.7				70.0					54.0					14.0				
	16.0	58.0	58.7				58.6	58.6				51.9				39.5	16.0				
	18.0	50.9	54.2				52.9	53.5				49.2	52.5			38.7	18.0				
	20.0	43.8	47.6				47.2	47.5				46.5	47.3			37.6	38.7	20.0			
	22.0	36.7	42.1				41.5	42.0				42.0	41.9			36.3	38.1	22.0			
	24.0	27.9	37.8	35.6			36.9	37.7				37.4	37.5			34.8	36.5	24.0			
	26.0			32.2			31.7	34.1				33.6	34.0			33.1	33.8	26.0			
	28.0			29.4	28.8		26.6	31.1	29.1			30.4	31.0			31.0	30.8	28.0			
	30.0			27.0	26.5		27.8	26.7	32.0m/24.2			27.3	28.4	32.0m/24.4	36.0m/20.7	28.2	28.3	30.0			
	34.0				32.0m/24.4			22.8	22.4			20.4	24.3	22.6	19.3	23.8	24.2	36.0m/21.0	34.0		
	38.0								36.0m/21.3	19.5			36.0m/21.5	19.7	17.0	18.9	21.1	19.6	40.0m/17.9	38.0	
	42.0													17.4	44.0m/16.0	40.0m/16.4	17.2	17.2	16.8	42.0	
	46.0																	15.4	15.0	46.0	
	50.0																	48.0m/14.5	13.4	50.0	
	Reeves			6					6					4			3			Reeves	
21.3 m Boom Length	21.3																	Boom length (m)			
	45.7																51.8	57.9	61.0	Jib length (m)	
	Boom angle	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle			
	Working Radius (m)	16.0	29.4																		16.0
		18.0	28.7					26.6													18.0
		20.0	28.1					26.0					20.9					18.4			20.0
		22.0	27.5	28.1				24.9					20.4					18.3			22.0
		24.0	27.0	27.5				23.8	24.3				19.5					17.6			24.0
		26.0	26.5	27.0				22.7	23.2				18.5	19.2				16.7			26.0
		28.0	25.9	26.6				21.6	22.1				17.5	18.2				15.8	16.4		28.0
		30.0	24.7	25.9				20.4	21.1				16.6	17.2				15.0	15.6		30.0
		34.0	22.4	23.5				18.2	18.9				15.0	15.5				13.6	14.0		34.0
		38.0	20.3	20.9	19.4			16.3	17.0				13.5	14.0				12.3	12.7		38.0
		42.0	16.9	18.4	17.0			14.3	15.0	16.8			12.3	12.7				11.2	11.6		42.0
		46.0	13.3	15.8	15.1	44.0m/15.6		12.5	13.2	14.9	48.0m/13.7		11.2	11.6	12.8			10.3	10.6	48.0m/11.2	46.0
		50.0		48.0m/14.0	13.6	14.8		10.7	11.5	13.3	12.9		10.2	10.6	11.7	52.0m/11.6		9.4	9.7	10.7	50.0
		54.0			12.3	13.2	52.0m/9.7		9.7	11.9	11.7		9.3	9.7	10.8	11.1		8.6	9.0	9.9	54.0
	58.0				12.0				10.3	10.6		8.2	8.9	9.9	10.2		7.9	8.2	9.1	58.0	
	62.0					56.0m/11.4											7.0	7.5	8.4	62.0	
	66.0													8.0	8.6		64.0m/7.0		7.8	66.0	
	70.0															68.0m/8.0			68.0m/7.5	7.4	70.0
	Reeves			3					2					2				2			Reeves
27.4 m Boom Length	27.4																	Boom length (m)			
	21.3																27.4	33.5	39.6	Jib length (m)	
	Boom angle	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle			
	Working Radius (m)	10.0	73.4																		10.0
		12.0	67.6						67.5												12.0
		14.0	61.7	65.4					62.4					54.0							14.0
		16.0	55.9	58.4					57.3	58.3				52.1				39.5			16.0
		18.0	50.1	53.9					52.2	53.2				49.4	52.2			38.6			18.0
		20.0	44.2	47.3					47.1	47.2				46.8	47.0			37.5			20.0
		22.0	38.4	41.9					42.0	41.7				42.6	41.6			36.3	38.3		22.0
		24.0	29.7	37.5					37.2	37.4				37.8	37.3			34.8	37.0		24.0
		26.0		33.5	31.4				32.8	33.8				33.9	33.7			33.2	33.6		26.0
		28.0			28.6				27.7	30.8				30.6	30.7			31.3	30.6		28.0
		30.0			26.2	25.5			22.3	28.3	25.9			27.8	28.2			28.5	28.1		30.0
		34.0				32.0m/24.2	21.8			32.0m/25.1	22.1	21.5		21.2	24.1	21.9		23.9	24.0		34.0
		38.0									19.2	18.7	36.0m/17.6		19.7	19.0	18.5	19.5	20.9	18.9	38.0
		42.0											40.0m/17.6				16.8	16.3	40.0m/17.1	18.4	16.7
	46.0														44.0m/15.8	14.5		44.0m/15.9	14.8	14.3	46.0
	50.0																		13.3	12.8	50.0
	54.0																			52.0m/12.2	54.0
	Reeves			6					5					4				3			Reeves

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

27.4 m Boom Length	27.4																	Boom length (m)
	45.7				51.8				57.9				61.0				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
18.0	28.7				25.7												18.0	
20.0	28.1				25.4				20.4								20.0	
22.0	27.5				24.5				20.1				18.1				22.0	
24.0	27.0	27.7			23.5				19.3				17.4				24.0	
26.0	26.5	27.2			22.4	22.8			18.4				16.6				26.0	
28.0	25.9	26.7			21.3	21.7			17.4	18.1			15.7	16.3			28.0	
30.0	24.7	26.2			20.2	20.7			16.5	17.1			14.9	15.5			30.0	
34.0	22.4	23.8			18.1	18.7			14.9	15.4			13.5	14.0			34.0	
38.0	20.4	20.7	40.0 m/17.5		16.2	16.8			13.5	14.0			12.2	12.7			38.0	
42.0	17.5	18.2	16.4		14.3	14.9	44.0 m/15.2		12.3	12.7			11.2	11.5			42.0	
46.0	13.8	16.2	14.6	14.1	12.5	13.2	14.3		11.2	11.6	48.0 m/12.2		10.2	10.6			46.0	
50.0		13.0	13.1	12.6	10.8	11.6	12.8	12.3	10.3	10.6	11.7		9.4	9.7	10.6		50.0	
54.0			11.8	11.4	52.0 m/10.0	9.9	11.5	11.1	9.4	9.8	10.7	10.8	8.6	8.9	9.8	56.0 m/9.7	54.0	
58.0			56.0 m/11.3	10.3		56.0 m/9.1	10.4	10.0	8.4	9.0	9.9	9.8	8.0	8.3	9.0	9.3	58.0	
62.0							9.0	9.1		7.6	9.1	8.9	7.3	7.6	8.4	8.6	62.0	
66.0									64.0 m/8.7			8.1	8.1		64.0 m/7.3	7.8	8.0	66.0
70.0												68.0 m/7.5	7.4			7.1	7.3	70.0
74.0																72.0 m/6.5	6.5	74.0
Reeves		3				2				2				2			Reeves	

33.5 m Boom Length	33.5																	Boom length (m)
	21.3				27.4				33.5				39.6				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
10.0	67.5																10.0	
12.0	65.3				63.5												12.0	
14.0	60.2				59.3				52.2								14.0	
16.0	55.1	58.1			55.1				50.9				39.5				16.0	
18.0	49.9	53.6			50.9	52.9			48.3				38.7				18.0	
20.0	44.8	47.0			46.7	46.9			45.6	46.5			37.5				20.0	
22.0	39.7	41.7			42.5	41.5			42.7	41.3			36.4	38.5			22.0	
24.0	31.2	37.3			37.6	37.2			38.2	37.0			34.9	36.8			24.0	
26.0		33.7			33.6	33.6			34.2	33.4			33.2	33.3			26.0	
28.0			27.7		28.5	30.7			30.8	30.5			31.5	30.3			28.0	
30.0			25.4		23.3	28.1	32.0 m/23.0		28.0	27.9			28.7	27.8			30.0	
34.0			21.7	21.0		32.0 m/26.0	21.3		21.8	23.9	36.0 m/19.6		24.1	23.8			34.0	
38.0			36.0 m/20.2	18.3			18.5	18.0	36.0 m/18.3	20.8	18.3		20.0	20.7	40.0 m/17.1		38.0	
42.0							40.0 m/17.4	15.9			16.1	15.6	14.9	18.2	16.0	44.0 m/14.4	42.0	
46.0								44.0 m/14.9			14.3	13.8		44.0 m/17.1	14.3	13.6	46.0	
50.0												12.4			12.8	12.2	50.0	
54.0														52.0 m/12.1	11.0		54.0	
58.0															56.0 m/10.5		58.0	
Reeves		5				5				4				3			Reeves	

33.5 m Boom Length	33.5																	Boom length (m)
	45.7				51.8				57.9				61.0				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
18.0	28.8				24.7												18.0	
20.0	28.1				24.4				19.8								20.0	
22.0	27.6				24.1				19.5				17.5				22.0	
24.0	27.0	27.9			23.2				19.2				17.3				24.0	
26.0	26.6	27.3			22.1	22.5			18.3				16.4				26.0	
28.0	25.9	26.8			21.1	21.4			17.3	18.0			15.6				28.0	
30.0	24.7	26.4			20.0	20.4			16.4	17.1			14.8	15.4			30.0	
34.0	22.4	23.6			18.0	18.4			14.8	15.4			13.4	13.9			34.0	
38.0	20.4	20.5			16.1	16.6			13.4	13.9			12.1	12.6			38.0	
42.0	17.8	18.0	44.0 m/14.9		14.3	14.8			12.2	12.6			11.1	11.5			42.0	
46.0	14.2	16.1	14.0	48.0 m/12.6	12.5	13.2	13.7		11.2	11.6			10.2	10.5			46.0	
50.0	48.0 m/12.2	13.9	12.5	12.0	10.9	11.6	12.3	52.0 m/11.0	10.2	10.6	11.6		9.4	9.7	52.0 m/10.1		50.0	
54.0			11.3	10.8	52.0 m/10.1	10.0	11.0	10.5	9.4	9.8	10.7	56.0 m/9.7	8.6	8.9	9.7		54.0	
58.0			10.3	9.8		56.0 m/9.2	10.0	9.4	8.5	9.0	9.7	9.2	8.0	8.2	9.0	9.1	58.0	
62.0				8.9			9.0	8.6		7.8	8.8	8.3	7.3	7.6	8.3	8.2	62.0	
66.0							64.0 m/8.4	7.8			8.0	7.6		64.0 m/7.3	7.7	7.5	66.0	
70.0									68.0 m/7.5				7.0	6.9			70.0	
74.0															6.0	6.2	74.0	
78.0																76.0 m/5.9	78.0	
Reeves		3				2				2				2			Reeves	

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

39.6 m Boom Length	39.6																	Boom length (m)
	21.3				27.4				33.5				39.6				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
Working Radius (m)	10.0	64.5															10.0	
	12.0	60.6			54.0												12.0	
	14.0	56.6			54.0				48.5								14.0	
	16.0	52.7	57.7		53.0				48.1				37.4				16.0	
	18.0	48.8	53.2		49.5	52.5			47.1				37.0				18.0	
	20.0	44.8	46.6		46.1	46.5			44.8	46.1			36.6				20.0	
	22.0	40.9	41.3		42.7	41.2			42.6	40.9			36.2	37.1			22.0	
	24.0	32.4	37.0		38.0	36.9			38.2	36.6			35.0	36.5			24.0	
	26.0		33.4		33.9	33.3			34.5	33.1			33.3	33.0			26.0	
	28.0		30.4		29.2	30.4			31.1	30.2			31.5	30.0			28.0	
	30.0			32.0 m/22.5	24.0	27.9			28.2	27.7			28.9	27.5			30.0	
	34.0			20.9	36.0 m/18.6		23.8	20.4		22.3	23.6		24.2	23.5			34.0	
	38.0			18.1	17.4			17.7	40.0 m/16.0	36.0 m/18.8	20.6	17.5	20.4	20.5			38.0	
	42.0				40.0 m/16.3			15.6	15.0			15.4	44.0 m/13.8	15.4	18.0	15.3	42.0	
	46.0							44.0 m/14.7	13.4			13.7	13.0		44.0 m/17.0	13.6	48.0 m/12.1	46.0
	50.0											12.3	11.7			12.2	11.5	50.0
	54.0												52.0 m/11.1			11.0	10.3	54.0
	58.0																9.4	58.0
Reeves			5				4				4			3			Reeves	

45.7 m Boom Length	39.6																	Boom length (m)
	45.7				51.8				57.9				61.0				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
Working Radius (m)	18.0	28.8															18.0	
	20.0	28.2			23.4				19.0								20.0	
	22.0	27.6			23.2				18.7				16.9				22.0	
	24.0	27.0	28.0		22.9				18.4				16.7				24.0	
	26.0	26.6	27.5		21.9	22.1			18.1				16.3				26.0	
	28.0	25.9	27.0		20.8	21.1			17.2				15.5				28.0	
	30.0	24.7	26.5		19.8	20.1			16.3	17.0			14.7	15.4			30.0	
	34.0	22.5	23.3		17.8	18.2			14.7	15.3			13.3	13.8			34.0	
	38.0	20.4	20.3		15.9	16.4			13.3	13.8			12.1	12.5			38.0	
	42.0	17.9	17.8		14.1	14.6			12.1	12.6			11.0	11.4			42.0	
	46.0	14.5	15.9	13.3	12.5	13.0	48.0 m/12.3		11.1	11.5			10.1	10.4			46.0	
	50.0	48.0 m/12.5	14.2	11.9	52.0 m/10.6	10.9	11.5	11.6	10.2	10.5	52.0 m/10.8		9.3	9.6			50.0	
	54.0			10.7	10.1	9.2	10.0	10.4	56.0 m/9.3	9.4	9.7	10.2		8.6	8.9	9.6	54.0	
	58.0			9.7	9.1		56.0 m/9.3	9.4	8.8	8.4	8.9	9.2	60.0 m/8.1	7.9	8.2	8.9	58.0	
	62.0			60.0 m/9.3	8.3			8.6	8.0	60.0 m/7.7	7.7	8.3	7.7	6.7	7.6	8.2	7.6	62.0
	66.0				64.0 m/7.9			7.8	7.2			7.6	7.0		6.7	7.4	6.8	66.0
	70.0								6.6			6.9	6.3			6.8	6.2	70.0
	74.0											72.0 m/6.4	5.7			5.9	5.6	74.0
78.0												76.0 m/5.5			76.0 m/5.4	5.1	78.0	
Reeves			3			2				2				2			Reeves	

45.7 m Boom Length	45.7																	Boom length (m)
	21.3				27.4				33.5				39.6				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
Working Radius (m)	12.0	54.0			49.0												12.0	
	14.0	54.0			47.5				40.5								14.0	
	16.0	53.0	54.0		46.0				40.5				35.2				16.0	
	18.0	49.3	52.8		44.6				40.5				34.9				18.0	
	20.0	45.4	46.2		43.1	45.7			40.5				34.6				20.0	
	22.0	41.9	40.9		41.6	40.7			38.5	40.3			33.8				22.0	
	24.0	33.4	36.6		38.2	36.5			36.4	36.4			32.6	35.0			24.0	
	26.0		33.1		34.2	33.0			34.4	32.9			31.3	32.6			26.0	
	28.0		30.1		29.8	30.1			31.3	30.0			30.1	29.6			28.0	
	30.0				24.7	27.6			28.4	27.5			28.8	27.2			30.0	
	34.0			20.0		23.6			22.7	23.5			24.4	23.3			34.0	
	38.0			17.3	16.4			16.9		36.0 m/19.3	20.4	40.0 m/15.6		20.7	20.2		38.0	
	42.0			40.0 m/16.2	14.4			14.9	14.1		40.0 m/19.1	14.6		15.7	17.8	44.0 m/13.7	42.0	
	46.0				44.0 m/13.6			13.2	12.6			13.0	12.3		15.8	12.9	46.0	
	50.0								11.2			11.6	11.0			11.5	10.7	50.0
	54.0											52.0 m/11.0	9.9			10.4	9.6	54.0
	58.0												56.0 m/9.5			9.4	8.7	58.0
	62.0																60.0 m/8.3	62.0
Reeves			4			4				3				3			Reeves	

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

250t
CKE2500-2

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Unit: metric ton

Counterweight: 90.0 t, Carbody weight: 24.0 t

45.7 m Boom Length	45.7																	Boom length (m)
	45.7				51.8				57.9				61.0				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
18.0	28.1																18.0	
20.0	27.8				22.4				18.3								20.0	
22.0	27.5				22.1				18.0				16.3				22.0	
24.0	27.1				21.8				17.7				16.1				24.0	
26.0	26.6	27.6			21.5				17.4				15.9				26.0	
28.0	26.0	27.1			20.6	20.8			17.1				15.4				28.0	
30.0	24.7	26.6			19.6	19.8			16.2	17.0			14.6	15.3			30.0	
34.0	22.5	23.0			17.6	17.9			14.6	15.3			13.2	13.8			34.0	
38.0	20.4	20.0			15.8	16.1			13.2	13.8			12.0	12.5			38.0	
42.0	18.0	17.6			14.0	14.5			12.1	12.5			10.9	11.4			42.0	
46.0	14.7	15.6	48.0 m/11.9		12.4	12.9			11.0	11.4			10.0	10.4			46.0	
50.0	48.0 m/12.8	14.0	11.3		10.8	11.4	52.0 m/10.4		10.1	10.5			9.2	9.5			50.0	
54.0		52.0 m/13.3	10.1	9.3	9.2	10.0	9.8		9.3	9.7	9.6		8.5	8.8	56.0 m/8.9		54.0	
58.0			9.2	8.4		8.5	8.9	8.1	8.4	8.8	8.6		7.5	8.1	8.5		58.0	
62.0			8.3	7.7			8.0	7.3	60.0 m/7.7	7.7	7.8	7.0	5.6	7.5	7.7	64.0 m/6.4	62.0	
66.0			64.0 m/8.0	7.0			7.3	6.6		64.0 m/7.0	7.1	6.3		6.6	6.9	6.1	66.0	
70.0							6.6	5.9			6.4	5.6			6.2	5.5	70.0	
74.0									72.0 m/5.6			5.8	5.1		5.6	4.9	74.0	
78.0													4.6		4.8	4.4	78.0	
82.0																4.0	82.0	
Reeves		3				2				2				2			Reeves	

51.8 m Boom Length	51.8																	Boom length (m)
	21.3				27.4				33.5				39.6				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
12.0	54.0				40.5												12.0	
14.0	52.4				40.5				40.5								14.0	
16.0	47.1				40.5				40.5				32.7				16.0	
18.0	42.6	51.8			40.5				40.5				32.3				18.0	
20.0	38.8	45.8			39.1	40.5			38.7				31.9				20.0	
22.0	35.5	40.6			35.8	40.3			35.6	39.8			31.5				22.0	
24.0	32.5	36.3			33.0	36.1			32.9	35.9			31.1	32.7			24.0	
26.0		32.9			30.5	32.6			30.6	32.5			30.2	32.2			26.0	
28.0		29.9			28.3	29.7			28.4	29.6			28.1	29.3			28.0	
30.0					25.5	27.2			26.5	27.1			26.3	26.9			30.0	
34.0			36.0 m/17.7			23.3			23.2	23.2			23.2	23.0			34.0	
38.0			16.5			40.0 m/15.1			36.0 m/19.9	20.2			20.6	19.9			38.0	
42.0			14.5	13.6			14.1		40.0 m/18.9	13.9			16.1	17.5			42.0	
46.0				12.0			12.5	11.6		12.3				15.6	12.1		46.0	
50.0						48.0 m/11.9	10.4			11.0	10.2				10.8		50.0	
54.0							52.0 m/9.9			9.9	9.2				9.7	8.8	54.0	
58.0											8.3				8.8	7.9	58.0	
62.0															60.0 m/8.4	7.2	62.0	
66.0																64.0 m/6.8	66.0	
Reeves		4				3				3				3			Reeves	

Working Radius (m)	51.8																	Boom length (m)
	45.7				51.8				57.9				61.0				Jib length (m)	
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle	
18.0	26.2																18.0	
20.0	25.9				21.2												20.0	
22.0	25.7				20.9				17.3				15.7				22.0	
24.0	25.4				20.6				17.0				15.4				24.0	
26.0	25.1	26.0			20.3				16.7				15.1				26.0	
28.0	24.8	25.7			20.0	20.5			16.4				14.8				28.0	
30.0	24.5	25.4			19.4	19.5			16.1	16.9			14.5	32.0 m/14.5			30.0	
34.0	22.5	22.7			17.4	17.7			14.5	15.2			13.1	13.7			34.0	
38.0	20.5	19.7			15.6	15.9			13.1	13.7			11.9	12.4			38.0	
42.0	18.0	17.3			13.9	14.3			12.0	12.4			10.9	11.3			42.0	
46.0	14.9	15.4			12.3	12.7			11.0	11.4			10.0	10.3			46.0	
50.0	48.0 m/13.0	13.8	10.6		10.7	11.3			10.1	10.4			9.2	9.5			50.0	
54.0		52.0 m/13.1	9.5		9.2	9.9	9.2		9.3	9.6			8.5	8.7			54.0	
58.0			8.5	7.6		8.5	8.2		7.3	8.7	8.0		6.3	8.1	7.8		58.0	
62.0			7.8	6.8			7.4	6.4	60.0 m/6.4	7.6	7.1		4.4	7.5	6.9		62.0	
66.0			7.1	6.1			6.7	5.8		64.0 m/7.0	6.4	5.4		5.7	6.2	68.0 m/4.9	66.0	
70.0				5.6			6.1	5.2			5.8	4.8			5.6	4.7	70.0	
74.0							72.0 m/5.8	4.6			5.2	4.3			5.0	4.2	74.0	
78.0								76.0 m/4.4			4.7	3.9			4.5	3.7	78.0	
82.0												3.5			80.0 m/4.2	3.3	82.0	
86.0																84.0 m/3.1	86.0	
Reeves		2				2				2				2			Reeves	

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Unit: metric ton

Counterweight: 90.0 t,
Carbody weight: 24.0 t

57.9 m Boom Length	57.9																		
	21.3				27.4				33.5				39.6						
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°			
12.0	40.5																12.0		
14.0	38.4				39.5				37.2								14.0		
16.0	35.4				35.7				35.5				27.0				16.0		
18.0	33.0	40.5			32.4				32.3				27.0				18.0		
20.0	30.0	37.3			29.6	36.3			29.6				27.0				20.0		
22.0	27.5	33.7			27.2	33.0			27.2	32.8			27.0				22.0		
24.0	25.2	30.7			25.1	30.2			25.1	30.1			25.0	27.0			24.0		
26.0		28.0			23.3	27.7			23.3	27.6			23.2	27.0			26.0		
28.0		25.7			21.6	25.5			21.7	25.5			21.6	25.3			28.0		
30.0		23.6			20.1	23.6			20.2	23.6			20.1	23.5			30.0		
34.0						20.4			17.7	20.5			17.7	20.4			34.0		
38.0			15.8			36.0 m/19.0			36.0 m/16.5	17.9			15.6	17.9			38.0		
42.0			13.8	44.0 m/11.8			13.6			15.7			13.8	15.8			42.0		
46.0				44.0 m/13.0	11.2			12.0	48.0 m/10.2			11.7		14.0	48.0 m/10.7		46.0		
50.0					48.0 m/10.5			10.8	9.7				10.4	52.0 m/8.8	48.0 m/13.2	10.1	50.0		
54.0									8.7				9.4	8.3		9.1	56.0 m/7.4	54.0	
58.0														56.0 m/8.9	7.4		8.2	7.0	58.0
62.0														60.0 m/7.0			7.4	6.3	62.0
66.0																		5.7	66.0
Reeves			3				3				3				2				Reeves

57.9 m Boom Length	57.9																	
	45.7				51.8				57.9				61.0					
	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°		
18.0	24.5																18.0	
20.0	24.2				20.0												20.0	
22.0	23.9				19.7				16.4				14.9				22.0	
24.0	23.6				19.4				16.2				14.7				24.0	
26.0	23.1	24.3			19.1				16.0				14.5				26.0	
28.0	21.5	24.0			18.8				15.8				14.3				28.0	
30.0	20.0	22.8			18.5	19.3			15.6	32.0 m/16.0			14.1	32.0 m/14.4			30.0	
34.0	17.6	19.8			17.2	17.4			14.4	15.1			13.0	13.7			34.0	
38.0	15.6	17.5			15.4	15.7			13.1	13.6			11.8	12.3			38.0	
42.0	13.8	15.5			13.8	14.1			11.9	12.4			10.8	11.2			42.0	
46.0	12.4	13.9			12.2	12.6			10.9	11.3			9.9	10.2			46.0	
50.0	48.0 m/11.7	12.4	52.0 m/9.3		10.6	11.1			10.0	10.3			9.1	9.4			50.0	
54.0		52.0 m/11.8	8.8		9.2	9.8	56.0 m/7.9		7.9	9.5			7.0	8.6			54.0	
58.0			7.9	60.0 m/6.5		8.5	7.5		6.0	8.5	60.0 m/6.8		5.0	8.0			58.0	
62.0			7.1	6.1			6.7	64.0 m/5.2	60.0 m/5.1	7.5	6.4		3.3	6.8	6.2		62.0	
66.0			6.4	5.5			6.0	4.9		64.0 m/6.4	5.7	68.0 m/4.3		4.7	5.5		66.0	
70.0			68.0 m/6.1	5.0			5.4	4.4			5.1	4.0		68.0 m/3.7	4.9	3.9	70.0	
74.0				72.0 m/4.7			4.9	3.9			4.6	3.6			4.4	3.4	74.0	
78.0								3.5			4.1	3.2			3.9	3.0	78.0	
82.0											80.0 m/3.9	2.8			3.5	2.6	82.0	
86.0												84.0 m/2.6					86.0	
Reeves			2				2				2				2			Reeves

Note:
Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.

250t
CKE2500-2

Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

**Vibro Roller
Baby Roller**

Motor Grader

Unit: metric ton

Counterweight: 90.0 t,
Carbody weight: 24.0 t

61.0 m Boom Length	61.0																	Working Radius (m)
	Boom length (m)	61.0															Boom length (m)	
	Jib length (m)	30.5				33.5				39.6				45.7			Jib length (m)	
Working Radius (m)	Boom angle	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle
14.0	35.0					27.0												14.0
16.0	31.6					27.0				27.0								16.0
18.0	28.7					27.0				27.0				23.6				18.0
20.0	26.2					26.1				26.0				23.3				20.0
22.0	24.1	29.4				24.0				23.8				23.0				22.0
24.0	22.2	26.9				22.1	25.8			22.0				21.8				24.0
26.0	20.6	24.6				20.5	23.8			20.4	23.6			20.2				26.0
28.0	19.1	22.7				19.0	22.0			18.9	21.8			18.8	21.6			28.0
30.0	17.8	21.0				17.7	20.4			17.6	20.2			17.5	20.1			30.0
34.0	15.5	18.1				15.5	17.7			15.4	17.6			15.3	17.5			34.0
38.0		15.7				36.0 m/14.5	15.5			13.6	15.4			13.5	15.3			38.0
42.0			44.0 m/12.2				13.7			12.0	13.6			12.0	13.5			42.0
46.0			11.5					11.2			12.1			10.7	12.1			46.0
50.0			10.2	52.0 m/8.5				10.0			48.0 m/11.4	9.7		48.0 m/10.1	10.8			50.0
54.0			9.2	8.0				9.0	7.9			8.7			9.6	8.3		54.0
58.0				7.1				8.1	7.1			7.8	6.7			7.4		58.0
62.0				60.0 m/6.8					6.4			7.0	6.0			6.7	5.6	62.0
66.0													5.4			6.0	5.0	66.0
70.0													68.0 m/5.1			68.0 m/5.7	4.5	70.0
74.0																	4.1	74.0
Reeves			3					2				2				2		Reeves

61.0 m Boom Length	61.0																	Working Radius (m)
	Boom length (m)	61.0															Boom length (m)	
	Jib length (m)	51.8				57.9				61.0				61.0			Jib length (m)	
Working Radius (m)	Boom angle	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	88°	83°	68°	63°	Boom angle
20.0	19.4																	20.0
22.0	19.1					15.9				14.5								22.0
24.0	18.8					15.7				14.3								24.0
26.0	18.5					15.5				14.1								26.0
28.0	17.5					15.3				13.9								28.0
30.0	16.4	18.6				15.1	32.0 m/15.5			13.7	32.0 m/14.1							30.0
34.0	14.5	16.4				13.5	14.6			13.0	13.6							34.0
38.0	12.9	14.5				12.2	13.0			11.8	12.3							38.0
42.0	11.6	12.9				11.0	11.7			10.7	11.1							42.0
46.0	10.4	11.5				10.0	10.7			9.8	10.2							46.0
50.0	9.5	10.3				9.0	9.7			8.4	9.3							50.0
54.0	8.6	9.3	56.0 m/7.5			7.1	8.9			6.3	8.6							54.0
58.0		8.4	7.1			5.3	8.2	60.0 m/6.3		4.4	7.9							58.0
62.0		60.0 m/7.7	6.3			60.0 m/4.4	6.5	6.0		2.8	6.2	5.8						62.0
66.0			5.6	4.4			4.8	5.3			4.2	5.1						66.0
70.0			5.0	3.9			4.7	3.6		68.0 m/3.2	4.6	72.0 m/3.2						70.0
74.0			4.5	3.5			4.2	3.2			4.0	3.0						74.0
78.0				3.1			3.8	2.8			3.6	76.0 m/2.8						78.0
82.0				80.0 m/2.9			80.0 m/3.6				3.2							82.0
Reeves			2				2				2							Reeves

Note:
Ratings according to EN13000.
Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Ranges And Lifting Capacities

Luffing Boom Lifting Capacities with Luffing Jib Attached at 23 Degree Boom to Luffing Jib Offset Angle

Unit: metric ton

Counterweight: 90.0 t,
Carbody weight: 24.0 t

21.3 m Boom Length	Boom length (m)	21.3					
	Jib length (m)	21.3	30.5	39.6	48.8	57.9	61.0
	6.4 m	125.0	119.0	114.1	107.5	100.3	97.2
	7.0 m	125.0	119.0	114.1	107.5	100.3	97.2
	8.0 m	125.0	119.0	114.1	107.5	100.3	97.2
	9.0 m	111.7	106.6	102.7	97.3	91.6	89.1
	10.0 m	99.3	94.5	90.7	85.7	80.3	77.9
	12.0 m	72.6	68.2	64.8	61.2	55.2	53.0
	14.0 m	55.3	51.3	48.0	44.7	39.1	37.2
	16.0 m	43.9	40.1	37.0	33.8	28.6	26.8
	18.0 m	35.7	32.2	29.1	26.1	21.2	19.5
	Reeves	10	10	10	8	8	8

30.5 m Boom Length	Boom length (m)	30.5					
	Jib length (m)	21.3	30.5	39.6	48.8	57.9	61.0
	8.0 m	115.2	111.6	106.5	101.4	95.8	93.4
	9.0 m	107.3	103.9	99.3	94.5	89.3	87.1
	10.0 m	95.7	92.5	88.1	83.7	78.8	76.7
	12.0 m	72.9	70.0	66.0	62.0	57.6	55.7
	14.0 m	55.6	53.0	49.3	45.5	41.5	39.7
	16.0 m	44.0	41.6	38.1	34.5	30.7	29.1
	18.0 m	35.7	33.4	30.1	27.5	23.1	21.6
	20.0 m	29.3	27.1	23.9	21.4	17.2	15.8
	22.0 m	24.2	22.2	19.0	16.7	12.6	11.2
	24.0 m	20.2	18.2	15.1	12.9	9.0	7.7
	Reeves	10	10	8	8	8	7

36.6 m Boom Length	Boom length (m)	36.6					
	Jib length (m)	21.3	30.5	39.6	48.8	57.9	61.0
	10.0 m	93.5	89.2	84.6	80.3	75.8	73.8
	12.0 m	74.5	70.6	66.4	62.6	58.5	56.7
	14.0 m	57.1	53.5	49.7	46.2	42.3	40.7
	16.0 m	45.5	42.1	38.5	35.1	31.6	30.0
	18.0 m	37.1	33.9	30.4	27.3	23.9	22.4
	20.0 m	30.6	27.5	24.2	21.2	18.0	16.6
	22.0 m	25.5	22.5	19.3	16.4	13.3	12.0
	24.0 m	21.3	18.4	15.3	12.6	9.6	8.3
	26.0 m	18.0	15.2	12.2	9.5	6.6	
	28.0 m	15.1	12.4	9.5	7.5		
	30.0 m	12.9	10.2	7.4	5.5		
	Reeves	7	7	7	6	6	6

42.7 m Boom Length	Boom length (m)	42.7					
	Jib length (m)	21.3	30.5	39.6	48.8	57.9	61.0
	12.0 m	71.6	67.5	63.5	59.9	55.9	54.2
	14.0 m	57.3	53.5	49.8	46.5	42.9	41.3
	16.0 m	45.7	42.1	38.6	35.5	32.1	30.6
	18.0 m	37.2	33.8	30.6	27.6	24.4	23.0
	20.0 m	30.6	27.4	24.2	21.4	18.3	17.0
	22.0 m	25.3	22.2	19.2	16.5	13.6	12.3
	24.0 m	21.2	18.2	15.2	12.6	9.8	8.6
	26.0 m	17.8	14.9	12.0	9.5	6.8	
	28.0 m	14.9	12.1	9.3	6.9		
	30.0 m	12.5	9.8	7.1	5.2		
	32.0 m	10.5	7.8	5.2			
	34.0 m	8.7	6.1				
	Reeves	6	6	5	5	5	5

48.8 m Boom Length	Boom length (m)	48.8					
	Jib length (m)	21.3	30.5	39.6	48.8	57.9	61.0
	12.0 m	65.4	61.7	57.8	54.0	49.3	47.3
	14.0 m	55.8	52.5	48.5	46.2	41.8	40.3
	16.0 m	45.5	42.4	38.7	36.6	32.4	31.0
	18.0 m	37.1	34.2	30.6	28.6	24.7	23.4
	20.0 m	30.4	27.7	24.3	22.4	18.7	17.4
	22.0 m	25.2	22.5	19.3	17.4	13.9	12.6
	24.0 m	21.0	18.4	15.3	13.5	10.1	8.9
	26.0 m	17.6	15.1	12.1	10.3	7.0	
	28.0 m	14.7	12.2	9.3	7.6		
	30.0 m	12.3	9.9	7.0	5.4		
	32.0 m	10.2	7.8	5.1			
	34.0 m	8.4	6.1				
	36.0 m	6.9					
	38.0 m	5.5					
	Reeves	5	5	5	5	4	4

54.9 m Boom Length	Boom length (m)	54.9					
	Jib length (m)	21.3	30.5	39.6	48.8	57.9	61.0
	14.0 m	51.2	47.7	44.6	41.6	37.3	35.8
	16.0 m	44.4	41.1	38.3	35.4	31.4	30.0
	18.0 m	37.1	34.0	31.3	28.6	24.8	23.5
	20.0 m	30.4	27.4	24.9	22.3	18.7	17.5
	22.0 m	25.2	22.3	19.8	17.4	13.9	12.7
	24.0 m	21.0	18.2	15.8	13.4	10.1	9.0
	26.0 m	17.5	14.7	12.5	10.2	7.0	5.9
	28.0 m	14.6	12.0	9.8	7.5		
	30.0 m	12.1	9.5	7.4	5.2		
	32.0 m	10.0	7.5	5.4			
	34.0 m	8.2	5.7				
	36.0 m	6.6					
	38.0 m	5.2					
	Reeves	4	4	4	4	3	3

61.0 m Boom Length	Boom length (m)	61.0				
	Jib length (m)	30.5	39.6	48.8	57.9	61.0
	14.0 m	46.2	43.6	40.0	35.8	34.3
	16.0 m	38.4	35.6	32.8	28.9	27.6
	18.0 m	32.6	30.0	27.4	23.7	22.4
	20.0 m	27.2	24.7	22.2	18.7	17.5
	22.0 m	22.1	19.7	17.4	14.0	12.9
	24.0 m	17.9	15.6	13.3	10.1	9.0
	26.0 m	14.6	12.3	10.2	7.0	6.0
	28.0 m	11.7	9.6	7.4		
	30.0 m	9.3	7.2	5.1		
	32.0 m	7.3	5.2			
	34.0 m	5.5				
	Reeves	4	4	3	3	3

Note: Ratings according to EN13000.

Ratings shown in are determined by the strength of the boom or other structural components.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

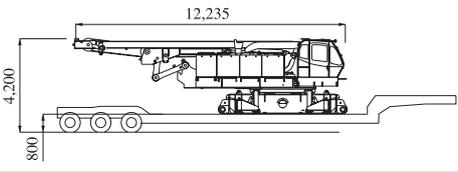
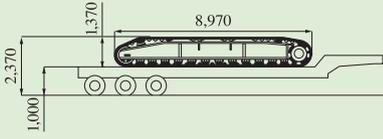
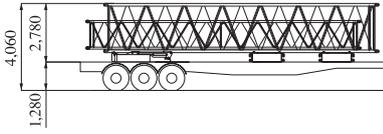
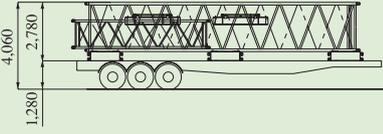
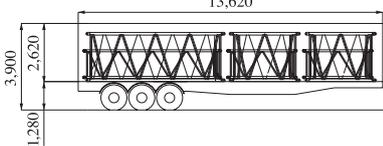
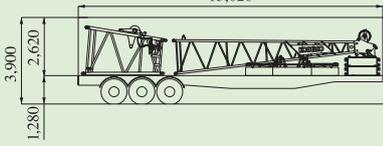
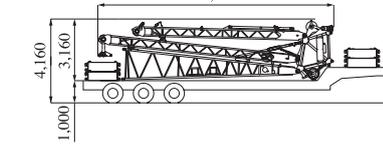
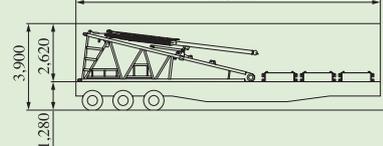
Vibro Roller
Baby Roller

Motor Grader

Transportation Plan

250t
CKE2500-2

Luffing Boom 61.0 m + Luffing Jib 61.0 m

Configuration	Description	Total Weight
<p>No.1 Low Loader</p> 	<p>Base Machine = With trans-lifter, main and aux. winches (non-free fall) including wire rope, boom hoist winch including wire rope</p>	44.90 ton
<p>No.2 Semi Loader</p> 	Crawler = (2 x 20.7 ton)	41.40 ton
<p>No.3 & No.4 Flat Bed Trailer</p> 	<p>Carbodyweight A x 1 = Counterweight (2 x 5.63 ton) = 12.2 m Insert Boom x 1 = 12.2 m Luffing Insert Jib x 1 = Total =</p>	<p>6.35 ton 11.26 ton 2.54 ton 1.17 ton 21.32 ton</p>
<p>No.5 Flat Bed Trailer</p> 	<p>Counterweight (3 x 5.63 ton) = 12.2 m Insert Boom x 1 = 6.1 m Luffing Insert Jib x 1 = Total =</p>	<p>16.89 ton 2.54 ton 0.67 ton 20.10 ton</p>
<p>No.6 Tent Side Truck</p> 	<p>3.0 m Insert Boom (2 x 0.89 ton) = 6.1 m Insert Boom x 1 = 6.1 m Luffing Insert Jib x 1 = 3.0 m Luffing Insert Jib x 1 = Relay Jib x 1 = Total =</p>	<p>1.78 ton 1.44 ton 0.67 ton 0.42 ton 0.40 ton 4.71 ton</p>
<p>No.7 Tent Side Truck</p> 	<p>Luffing Jib Top x 1 = Luffing Tapered Boom x 1 = Counterweight (2 x 5.63 ton) = Counterweight A x 1 = Total =</p>	<p>1.40 ton 1.19 ton 11.26 ton 11.04 ton 24.89 ton</p>
<p>No.8 Semi Loader</p> 	<p>Travel Kit Assembly = Counterweight (2 x 5.63 ton) = Carbodyweight B (2 x 5.63 ton) = Total =</p>	<p>6.73 ton 11.26 ton 11.26 ton 29.25 ton</p>
<p>No.9 Tent Side Truck</p> 	<p>Boom Base x 1 = Conterweight (3 x 5.63 ton) = Total =</p>	<p>6.81 ton 16.89 ton 23.70 ton</p>

Note: Estimated weights may vary \pm 2%.

This transportation plan depends on specifications of your trailers/trucks and the areas or countries where you transport.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

Excavator

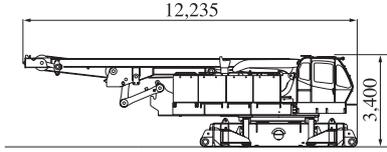
Bull Dozer

Vibro Roller
Baby Roller

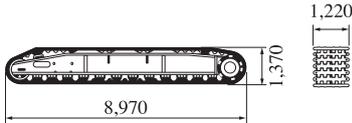
Motor Grader

Parts And Attachments

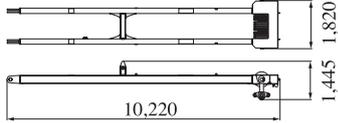
Base Machine
With trans-lifter, main and aux. winches (non-free fall) including wire rope and boom hoist winch including wire rope
Weight: 44,900 kg Width: 3,400 mm



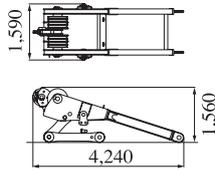
Crawler
Weight: 20,700 kg



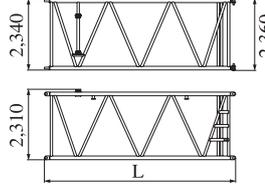
Mast
Weight: 2,870 kg



Gantry
Weight: 3,020 kg



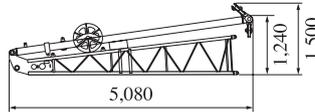
Insert Boom



	L (mm)	Weight (kg)*
3.0m	3,175	890
6.1m	6,220	1,440
12.2m	12,320	2,540

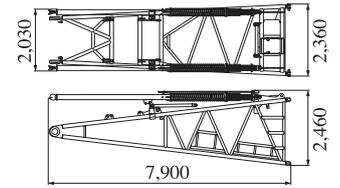
*with boom guy cables

Jib Base with Strut (For Crane)
Weight: 510 kg Width: 1,040 mm

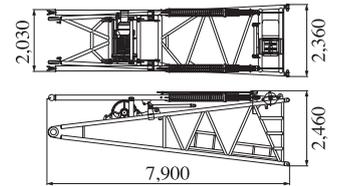


Dimensions: mm Weight: kg

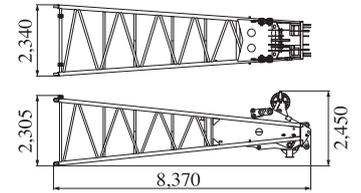
Boom Base
Weight: 4,665 kg



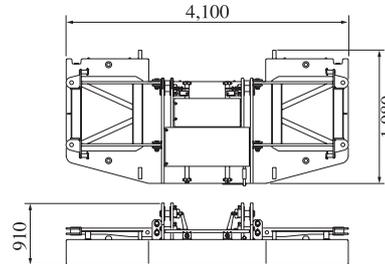
Boom Base (with Winch)
Weight: 6,810 kg



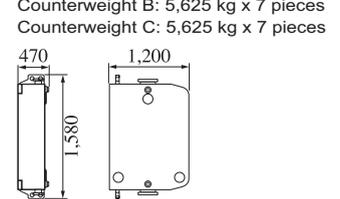
Boom Top
Weight: 3,720 kg (with boom guy cables)



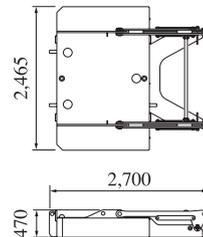
Counterweight A
Weight: 11,040 kg



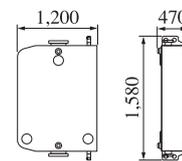
Counterweight B, C
Weight:



Carbodyweight A
Weight: 6,350 kg x 2 pieces



Carbodyweight B
Weight: 5,625 kg x 2 pieces



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

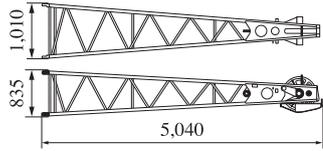
Excavator

Bull Dozer

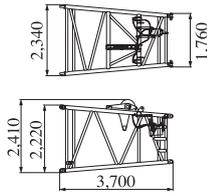
Vibro Roller
Baby Roller

Motor Grader

Jib Top (For Crane)
Weight: 315 kg

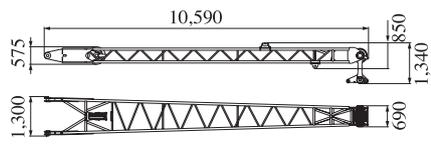


Luffing Tapered Boom
Weight: 1,190 kg

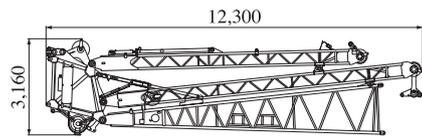


Dimensions: mm Weight: kg

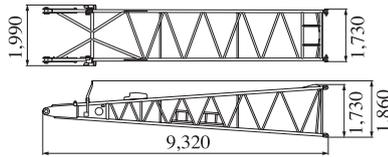
Front Strut (Luffing Jib)
Weight: 1,410 kg



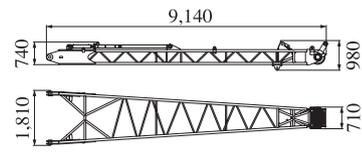
Travel Kit Assembly
Weight: 6,730 kg



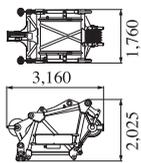
Luffing Jib Base
Weight: 1,470 kg



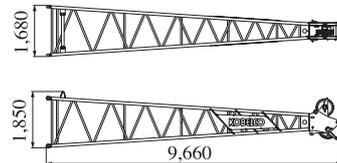
Rear Strut (Luffing Jib)
Weight: 1,510 kg



Luffing Boom Top
Weight: 2,085 kg



Luffing Jib Top
Weight: 1,400 kg



Other Attachments

Attachments	Weight	Dimensions (L x W x H)
3.0 m insert jib (for crane)	110 kg	3,130 mm x 1,020 mm x 840 mm
6.1 m insert jib (for crane)	190 kg	6,175 mm x 1,020 mm x 840 mm
Relay jib	400 kg (with guy cables)	3,170 mm x 1,670 mm x 1,690 mm
Tapered boom with idler sheave & link (for long)	1,170 kg	4,905 mm x 2,340 mm x 2,360 mm
3.0 m luffing insert jib	420 kg (with guy cables)	3,160 mm x 1,670 mm x 1,690 mm
6.1 m luffing insert jib	670 kg (with guy cables)	6,210 mm x 1,670 mm x 1,690 mm
12.2 m luffing insert jib	1,170 kg (with guy cables)	12,310 mm x 1,670 mm x 1,690 mm
Jib backstop (for luffing)	260 kg	3,580 mm x 250 mm x 280 mm (x 2 pieces)
Strut backstop (for luffing)	255 kg	3,390 mm x 210 mm dia. (x 2 pieces)
Auxiliary sheave (for crane)	290 kg	2,010 mm x 720 mm x 735 mm
Auxiliary sheave (for luffing)	380 kg	1,070 mm x 910 mm x 890 mm
Luffing jib drum	2,050 kg (with wire rope)	1,780 mm x 1,190 mm x 1,040 mm
250-ton hook	4,200 kg	2,310 mm x 1,620 mm x 720 mm
150-ton hook	2,300 kg	2,250 mm x 715 mm x 700 mm
70-ton hook	1,200 kg	1,825 mm x 380 mm x 700 mm
35-ton hook	900 kg	1,575 mm x 365 mm x 700 mm
Ball hook	450 kg	1,200 mm x 380 mm dia.

Note: Estimated weights may vary ± 2%.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

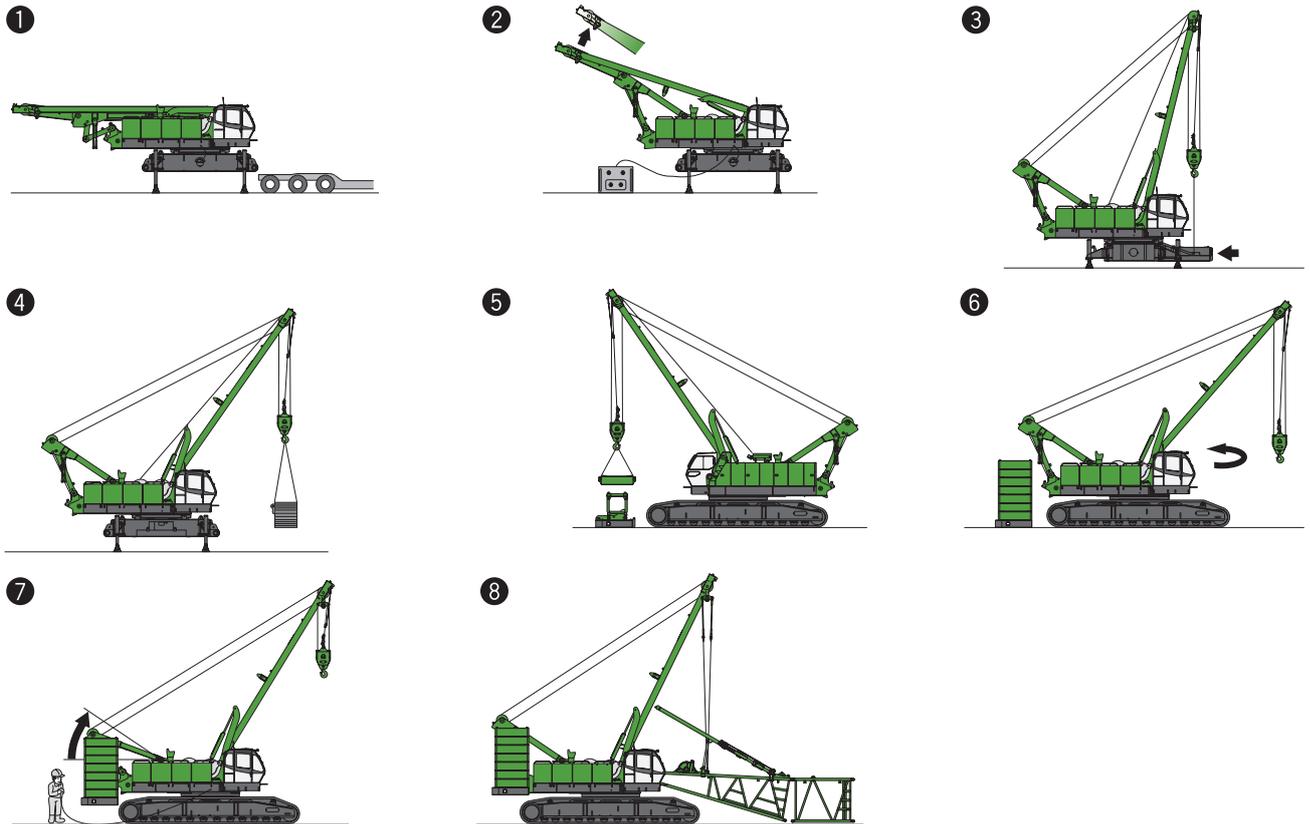
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Self-Removal Device



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

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CKS1350

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CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

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GR-300EX

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GR-500EXL

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GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Self-Removal Device

Upper structure/Lower structure

Counterweight: 90.0 ton (total weight)
Carbody weight: 24.0 ton (total weight)
1,220 mm shoe crawlers
Batteries (170Ah/20HR)
Trans-lifter (jack system)
Gantry raising/lowering cylinder
Electric hand throttle grip
Variable boom hoist speed controller
Variable main/aux. hoist speed controller
Swing neutral-free/brake select switch
Side deck for cab
Side deck (right side guard)
Steps (crawlers)
Two front working lights
Tools (for routine maintenance)
Two rear view mirrors
Electric fuel pump
Counterweight self removal
Crawler self removal
Base boom self removal
Cable roller (for boom)

Cab/Control

Boom hoist pedal (EU area only)
Air conditioner
Cup holder
Ashtray
Cigarette lighter
Intermittent wiper & window washer (skylight and front window)
Sun visor
Roof blind
Floor mat (cloth)
Foot rest
Shoe tray
Level gauge (operator cabin)

Safety Device

Load Moment Indicator (with boom lowering slow stop function)
LMI release key (for hook over-hoist prevention device and boom over-hoist prevention device)
LCD multi display
Ultimate stop function for boom over-hoist
Function lock lever
Propel lever lock
Mechanical drum lock pawl (main, aux. and boom hoist)
Signal horn
Swing parking brake
Mechanical swing lock pin (four positions)
Swing flashers/warning buzzer
Cab window guard (left side)
Cab top guard
Fire extinguisher
External lamp for over-load alarm
Life hammer

Rough Terrain Crane 25t GR-250N-2

Manual PDF

<p>Rough Terrain Crane 25t GR-250N-2 (TADANO)</p>	
<p>Rough Terrain Crane 25t KR-25H-V5 (KATO)</p>	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Specifications

☉ Crane

Crane Capacity

9.35 m boom	25,000 kg	x 3.5 m	(8-part line)
16.4 m boom	15,000 kg	x 6.5 m	(6-part line)
23.45 m boom	12,000 kg	x 6.0 m	(4-part line)
30.5 m boom	8,000 kg	x 8.0 m	(4-part line)
8.0 m jib	3,300 kg	x 72°	(single-part line)
13.0 m jib	2,000 kg	x 78°	(single-part line)
Single top	4,000 kg		(single-part line)

Max. Lifting Height

Boom	31.3 m
Jib	44.2 m

Max. Working Radius

Boom	27.9 m
Jib	33.9 m

Boom Length

9.35m to 30.5m

Boom Extension

21.15 m

Boom Extension Speed

21.15 m/80 s

Jib Length

8.0 m, 13.0 m

Main Winch Single Line Winding Speed

120 m/min (4 layers)

Main Winch Hook Speed

15.0 m/min (8-part line)

Main Winch Single Line Unwinding Speed

<Reference>

Standard: 120 m/min (4 layers)

High-speed: 160 m/min (4 layers)

Auxiliary Winch Single Line Winding Speed

120 m/min (4 layers)

Auxiliary Winch Hook Speed

120 m/min (single-part line)

Auxiliary Winch Single Line Unwinding Speed

<Reference>

Standard: 120 m/min (4 layers)

High-speed: 160 m/min (4 layers)

Boom Elevation Angle

0° to 84°

Boom Elevation Speed

0° to 84°/45 s

Swing Angle

360° continuous

Swing Speed

2.6 min⁻¹ (rpm)

Wire Rope

Main winch

16 mm dia. x 170 m long

Spin-resistant wire rope

Auxiliary winch

16 mm dia. x 98 m long

Spin-resistant wire rope

Boom

4-section box structure synchronously telescoping hydraulic boom

Boom Extension

Single double-acting hydraulic cylinder

2 wire rope type telescoping devices

Jib

Quick-turn type (stored alongside and below boom)

2-stage (pull-out 2nd stage)

Offset 5° to 60° hydraulic non-stage inclined

Single Top

Fixed on top boom section

Hoist

Hydraulic motor driven planetary gear reducer

Automatic brake

High-speed unwind function

2 single winches

With flow regulator valve with pressure compensation

Boom Elevation

Single double-acting hydraulic cylinder

With flow regulator valve with pressure compensation

Swing

Hydraulic motor driven planetary gear reducer

Swing bearing

Swing free/lock changeover type

Negative brake

Outriggers

Fully hydraulic H-type (floats mounted integrally)

Slides and jacks each provided with independent operation device.

Fully extended width 6.5 m

Middle extended width 6.1 m, 5.0 m, 3.6 m

Minimum extended width 2.3 m

Operation Method

Hydraulic pilot valve operation

Max. Vertical Load Capacity of Outrigger

26.9 t

Power Take-Off

PTO wet multi-plate clutch

Hydraulic Pumps

2 variable piston pumps

3 gear pumps

Hydraulic Tank Capacity

380 L

Safety Devices

Automatic moment limiter (AML)

Swing automatic stop device

Elevation slow down and stop device

Over-winding cutout device

Working area control device

Outrigger extension width detector

Level gauge

Hook safety latch

Hydraulic safety valve

Telescoping cylinder check valve

Extension cylinder check valve

Power tilt counterbalance valve

Jack pilot check valve

Swing lock

Equipment

Air-conditioner with dehumidifier

Hydraulic oil temperature indication lamp

Radio

Oil cooler

Visual-type winch drum rotation indicator

Operation pedals

ISO arrangement: for telescoping/auxiliary hoisting

Tadano arrangement: for elevating/telescoping

Satellite Communications Equipment (HELLO-NET Owner's Site)

Ancilliary Equipment

Wood blocks (x 4)

Aluminum deck plates (x 4)

Crawler Crane

55t
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CKS800

90t
CKS900

135t
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180t
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250t
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Rough Terrain Crane

25t
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GR-500EXL

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GR-600EX

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GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller Baby Roller

Motor Grader

Carrier

Manufacturer and Model

Tadano JDS-T003

Engine

Model Mitsubishi 6M60-TLE3A (with turbo and air cooler)
Type Water-cooled 4-cycle, in-line 6 cylinder, direct-injection diesel

Piston displacement 7.545 L

Max. output 200 kW (272PS)/2,600 min⁻¹ (rpm)

Max. torque 785 N.m (80.0 kgf.m)/1,400 min⁻¹ (rpm)

Torque Converter

3-element, 1-stage unit (with automatic lock-up mechanism)

Transmission

Automatic and manual transmission

Power shift type (wet multi-plate clutch)

4 forward gears, 1 reverse gear (with Hi and Lo)

Reducer

Axle dual-ratio reduction

Drive

2-wheel drive (4 x 2)/4-wheel drive (4 x 4) selection

Front Axle

Full floating type

Rear Axle

Full floating type

Suspension

Front Hydro-pneumatic suspension (with hydraulic lock cylinder)

Rear Hydro-pneumatic suspension (with hydraulic lock cylinder)

Steering

Fully hydraulic power steering

Brake System

Service Brake

Hydro-pneumatic disk brake

Parking Brake

Mechanically operated, internal expanding duo-servo shoe type acting on drum at transmission case rear.

Auxiliary Brake

Permanent magnet retarder

Electro-pneumatic operated exhaust brake

Auxiliary braking device for operations

Frame

Welded box-shaped structure

Electric System

12 V/120 Ah x 2 (24 V)

Fuel Tank Capacity

300 L

Tires

Front 385/95R25 170E Road

Rear 385/95R25 170E Road

Cab

One-man type

With interior equipment

Sealed-fluid rubber mounted type

Fully adjustable folding seat

(with head rest, arm rest, seat belt)

Adjustable wheel (tilt, telescoping)

Intermittent windshield/roof wiper (with washer)

Power window

Side visor

Safety Devices

Emergency steering device

Suspension lock device

Rear wheel steering lock device

Engine over-run alarm

Overshift prevention device

Parking brake alarm

Monitor television on left and right sides of boom

Equipment

Centralized oiling device

Electric mirror

Dimensions

Overall length 11,410 mm

Overall width 2,620 mm

Overall height 3,470 mm

Wheel base 3,880 mm

Tread Front 2,170 mm

Rear 2,170 mm

Weights

Gross vehicle weight 25,595 kg

Front 12,800 kg

Rear 12,795 kg

Performance

Max. traveling speed 49 km/h

Gradeability (tanθ) 0.57

Min. turning radius 5.1 m (4-wheel steering)

8.5 m (2-wheel steering)

Optional equipment

Winch drum monitoring camera

Rear view monitoring camera

Loudspeaker

AML external warning lamp

Roadside lamp

Identification lamp

* This crane has a compliance certificate ('Weight under basic transit conditions: A') under the new vehicle certification system, however in practice, conditions imposed for transit are in accordance with the assessment of each route by the road controller.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Total Rated Loads

2-(1) Outrigger Used
[Boom]

Unit: ton

Outriggers fully extended (6.5 m) -360°-				
Working radius \ Boom length	9.35 m	16.4 m	23.45 m	30.5 m
2.5 m	25.0	15.0	12.0	
3.0 m	25.0	15.0	12.0	
3.5 m	25.0	15.0	12.0	8.0
4.0 m	23.5	15.0	12.0	8.0
4.5 m	21.5	15.0	12.0	8.0
5.0 m	19.6	15.0	12.0	8.0
5.5 m	17.8	15.0	12.0	8.0
6.0 m	16.3	15.0	12.0	8.0
6.5 m	15.1	15.0	11.5	8.0
7.0 m		14.0	10.8	8.0
8.0 m		11.3	9.6	8.0
9.0 m		9.2	8.6	7.6
10.0 m		7.5	7.6	6.9
11.0 m		6.3	6.5	6.3
12.0 m		5.35	5.5	5.6
13.0 m		4.6	4.75	4.9
13.5 m		4.25	4.45	4.55
14.0 m			4.15	4.25
15.0 m			3.65	3.8
16.0 m			3.2	3.4
17.0 m			2.85	3.0
18.0 m			2.5	2.65
19.0 m			2.2	2.4
20.0 m			2.0	2.15
20.5 m			1.9	2.0
21.0 m				1.9
22.0 m				1.7
24.0 m				1.35
26.0 m				1.1
27.9 m				0.9
A (°)	0-84			

Unit: ton

Outriggers middle extended (6.1 m) -Over sides-				
Working radius \ Boom length	9.35 m	16.4 m	23.45 m	30.5 m
2.5 m	25.0	15.0	12.0	
3.0 m	25.0	15.0	12.0	
3.5 m	25.0	15.0	12.0	8.0
4.0 m	23.5	15.0	12.0	8.0
4.5 m	21.5	15.0	12.0	8.0
5.0 m	19.6	15.0	12.0	8.0
5.5 m	17.8	15.0	12.0	8.0
6.0 m	16.3	15.0	12.0	8.0
6.5 m	15.0	15.0	11.5	8.0
7.0 m		13.3	10.8	8.0
8.0 m		10.3	9.6	8.0
9.0 m		8.3	8.5	7.6
10.0 m		6.8	7.0	6.9
11.0 m		5.7	5.9	6.0
12.0 m		4.9	5.0	5.1
13.0 m		4.2	4.35	4.4
13.5 m		3.9	4.0	4.1
14.0 m			3.8	3.85
15.0 m			3.3	3.4
16.0 m			2.9	3.0
17.0 m			2.6	2.65
18.0 m			2.3	2.35
19.0 m			2.05	2.1
20.0 m			1.85	1.85
20.5 m			1.75	1.75
21.0 m				1.65
22.0 m				1.5
24.0 m				1.2
26.0 m				0.95
27.8 m				0.75
A (°)	0-84			

A= Boom angle range (for the unladen condition)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

[Boom]

Unit: ton

Outriggers middle extended (5.0 m)		-Over sides-		
Working radius \ Boom length	9.35 m	16.4 m	23.45 m	30.5 m
2.5 m	25.0	15.0	12.0	
3.0 m	25.0	15.0	12.0	
3.5 m	25.0	15.0	12.0	8.0
4.0 m	23.5	15.0	12.0	8.0
4.5 m	21.2	15.0	12.0	8.0
5.0 m	17.2	15.0	12.0	8.0
5.5 m	14.2	15.0	12.0	8.0
6.0 m	12.0	12.7	12.0	8.0
6.5 m	10.3	10.9	10.8	8.0
7.0 m		9.5	9.7	8.0
8.0 m		7.4	7.6	7.5
9.0 m		6.0	6.2	6.2
10.0 m		4.9	5.1	5.2
11.0 m		4.1	4.3	4.35
12.0 m		3.5	3.65	3.7
13.0 m		3.0	3.15	3.2
13.5 m		2.8	2.9	2.95
14.0 m			2.7	2.75
15.0 m			2.35	2.4
16.0 m			2.05	2.1
17.0 m			1.75	1.8
18.0 m			1.55	1.6
19.0 m			1.35	1.4
20.0 m			1.2	1.2
20.5 m			1.1	1.1
21.0 m				1.05
22.0 m				0.9
24.0 m				0.65
A (°)	0-84			32-84

Unit: ton

Outriggers middle extended (3.6 m)		-Over sides-		
Working radius \ Boom length	9.35 m	16.4 m	23.45 m	30.5 m
2.5 m	25.0	15.0	12.0	
3.0 m	25.0	15.0	12.0	
3.5 m	19.5	15.0	12.0	8.0
4.0 m	14.8	15.0	12.0	8.0
4.5 m	11.8	12.7	12.0	8.0
5.0 m	9.8	10.5	10.6	8.0
5.5 m	8.1	8.8	9.0	8.0
6.0 m	6.9	7.6	7.7	7.5
6.5 m	5.9	6.5	6.7	6.8
7.0 m		5.7	5.9	6.0
8.0 m		4.5	4.6	4.7
9.0 m		3.6	3.75	3.8
10.0 m		2.9	3.05	3.1
11.0 m		2.4	2.5	2.6
12.0 m		1.95	2.1	2.15
13.0 m		1.60	1.75	1.8
13.5 m		1.45	1.6	1.65
14.0 m			1.45	1.5
15.0 m			1.2	1.25
16.0 m			1.0	1.05
17.0 m			0.8	0.85
18.0 m			0.65	0.7
19.0 m			0.5	0.55
A (°)	0-84		25-84	47-84

A= Boom angle range (for the unladen condition)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Total Rated Loads

[Boom]

Unit: ton

Outriggers minimum extended (2.3 m)		-Over sides-			
		9.35 m	16.4 m	23.45 m	30.5 m
Working radius	Boom length				
	2.5 m		12.2	12.0	10.0
3.0 m		12.2	12.0	10.0	
3.5 m		9.8	10.0	10.0	6.0
4.0 m		7.6	8.0	8.5	6.0
4.5 m		6.1	6.7	7.0	6.0
5.0 m		5.0	5.5	5.8	5.8
5.5 m		4.1	4.6	4.9	5.0
6.0 m		3.4	4.0	4.25	4.4
6.5 m		2.8	3.4	3.65	3.8
7.0 m			2.95	3.15	3.3
8.0 m			2.2	2.4	2.6
9.0 m			1.65	1.85	2.0
10.0 m			1.2	1.4	1.6
11.0 m			0.9	1.1	1.25
12.0 m			0.65	0.8	0.95
A (°)		0-84	30-84	54-84	64-84

A= Boom angle range (for the unladen condition)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

[Jib (30.5 m Boom)]

Outriggers fully extended (6.5 m)										-360°-														
Jib length	30.5 m boom + 8.0 m jib								30.5 m boom + 13.0 m jib															
Offset	5°		25°		45°		60°		5°		25°		45°		60°									
Boom angle (°)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)								
84	4.2	3.3	6.8	2.3	8.8	1.7	9.7	1.05	5.2	2.0	9.6	1.25	12.8	0.85	14.4	0.55								
80	7.4	3.3	9.8	2.3	11.6	1.7	12.2	1.05	9.0	2.0	13.0	1.25	15.8	0.85	16.9	0.55								
78	8.9	3.3	11.2	2.3	12.8	1.7	13.3	1.05	10.6	2.0	14.5	1.2	17.2	0.85	18.2	0.55								
76	10.4	3.3	12.5	2.3	14.1	1.7	14.5	1.05	12.3	1.9	15.9	1.15	18.4	0.85	19.4	0.55								
74	11.8	3.3	13.9	2.3	15.2	1.65	15.6	1.05	13.9	1.8	17.3	1.1	19.7	0.85	20.5	0.55								
72	13.2	3.3	15.1	2.3	16.4	1.65	16.7	1.05	15.3	1.65	18.7	1.1	20.9	0.85	21.6	0.55								
70	14.6	3.25	16.4	2.3	17.5	1.6	17.7	1.05	16.8	1.6	20.0	1.05	22.1	0.85	22.7	0.55								
68	15.8	3.0	17.6	2.25	18.6	1.55	18.7	1.0	18.2	1.5	21.2	1.0	23.3	0.85	23.7	0.55								
65	17.4	2.55	19.2	2.05	20.1	1.55	20.2	1.0	20.3	1.4	23.1	1.0	24.9	0.84	25.1	0.55								
60	20.2	1.85	21.9	1.65	22.7	1.5	22.7	1.0	23.6	1.25	26.2	0.95	27.6	0.81	27.5	0.54								
55	22.7	1.35	24.2	1.2	24.9	1.2			26.7	1.1	28.9	0.91	29.9	0.79										
53	23.7	1.2	25.1	1.1	25.7	1.05			27.8	0.98	29.9	0.87	30.8	0.79										
50	25.1	1.0	26.5	0.92	26.9	0.92			29.3	0.81	31.3	0.72	32.0	0.7										
47	26.4	0.81	27.7	0.75	28.0	0.75			30.8	0.65	32.6	0.58	33.0	0.57										
45	27.3	0.7	28.4	0.65	28.6	0.65			31.7	0.56	33.4	0.5	33.7	0.49										
40	29.3	0.47	30.2	0.43					33.9	0.36														
A (°)	39-84				44-84				59-84				39-84				44-84				59-84			

Outriggers middle extended (6.1 m)										-Over sides-										
Jib length	30.5 m boom + 8.0 m jib								30.5 m boom + 13.0 m jib											
Offset	5°		25°		45°		60°		5°		25°		45°		60°					
Boom angle (°)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)				
84	4.2	3.3	6.8	2.3	8.8	1.7	9.7	1.05	5.2	2.0	9.6	1.25	12.8	0.85	14.4	0.55				
80	7.4	3.3	9.8	2.3	11.6	1.7	12.2	1.05	9.0	2.0	13.0	1.25	15.8	0.85	16.9	0.55				
78	8.9	3.3	11.2	2.3	12.8	1.7	13.3	1.05	10.6	2.0	14.5	1.2	17.2	0.85	18.2	0.55				
76	10.4	3.3	12.5	2.3	14.1	1.7	14.5	1.05	12.3	1.9	15.9	1.15	18.4	0.85	19.4	0.55				
74	11.8	3.3	13.9	2.3	15.2	1.65	15.6	1.05	13.9	1.8	17.3	1.1	19.7	0.85	20.5	0.55				
72	13.2	3.3	15.1	2.3	16.4	1.65	16.7	1.05	15.3	1.65	18.7	1.1	20.9	0.85	21.6	0.55				
70	14.6	3.25	16.4	2.3	17.5	1.6	17.7	1.05	16.8	1.6	20.0	1.05	22.1	0.85	22.7	0.55				
68	15.8	3.0	17.6	2.25	18.6	1.55	18.7	1.0	18.2	1.5	21.2	1.0	23.3	0.85	23.7	0.55				
65	17.3	2.4	19.2	2.05	20.1	1.55	20.2	1.0	20.3	1.4	23.1	1.0	24.9	0.84	25.1	0.55				
60	20.0	1.7	21.8	1.5	22.7	1.45	22.7	1.0	23.6	1.25	26.2	0.95	27.6	0.81	27.5	0.54				
55	22.6	1.2	24.2	1.1	24.9	1.1			26.6	1.0	28.9	0.88	29.9	0.79						
53	23.6	1.05	25.1	0.99	25.7	0.98			27.7	0.88	29.9	0.78	30.8	0.75						
50	25.0	0.88	26.4	0.8	26.9	0.81			29.3	0.71	31.2	0.62	31.9	0.61						
47	26.4	0.69	27.6	0.63	27.9	0.64			30.7	0.55	32.5	0.48	32.9	0.48						
45	27.2	0.58	28.4	0.53	28.6	0.54			31.6	0.46	33.3	0.4	33.6	0.4						
40	29.2	0.36																		
A (°)	39-84				44-84				59-84				44-84				59-84			

R: Working radius W: Total rated load A= Boom angle range (for the unladen condition)

Crawler Crane

55t
7055

80t
CKS800

90t
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135t
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Others

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Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Total Rated Loads

[Jib (30.5 m Boom)]

Outriggers middle extended (5.0 m) -Over sides-																
Jib length	30.5 m boom + 8.0 m jib								30.5 m boom + 13.0 m jib							
Offset	5°		25°		45°		60°		5°		25°		45°		60°	
Boom angle (°)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)
84	4.2	3.3	6.8	2.3	8.8	1.7	9.7	1.05	5.2	2.0	9.6	1.25	12.8	0.85	14.4	0.55
80	7.4	3.3	9.8	2.3	11.6	1.7	12.2	1.05	9.0	2.0	13.0	1.25	15.8	0.85	16.9	0.55
78	8.9	3.3	11.2	2.3	12.8	1.7	13.3	1.05	10.6	2.0	14.5	1.2	17.2	0.85	18.2	0.55
76	10.4	3.3	12.5	2.3	14.1	1.7	14.5	1.05	12.3	1.9	15.9	1.15	18.4	0.85	19.4	0.55
74	11.8	3.3	13.9	2.3	15.2	1.65	15.6	1.05	13.9	1.8	17.3	1.1	19.7	0.85	20.5	0.55
72	13.1	3.15	15.1	2.3	16.4	1.65	16.7	1.05	15.3	1.65	18.7	1.1	20.9	0.85	21.6	0.55
70	14.3	2.6	16.3	2.15	17.5	1.6	17.7	1.05	16.8	1.6	20.0	1.05	22.1	0.85	22.7	0.55
68	15.4	2.2	17.4	1.85	18.6	1.55	18.7	1.0	18.2	1.5	21.2	1.0	23.3	0.85	23.7	0.55
65	17.0	1.7	18.9	1.45	20.0	1.35	20.2	1.0	20.2	1.35	23.1	1.0	24.9	0.84	25.1	0.55
60	19.7	1.1	21.5	0.98	22.5	0.94	22.6	0.93	23.3	0.9	26.0	0.74	27.5	0.7	27.5	0.54
55	22.4	0.71	24.0	0.62	24.7	0.61			26.2	0.55	28.6	0.45	29.8	0.43		
53	23.3	0.56	24.9	0.49	25.5	0.48			27.3	0.43						
50	24.8	0.37														
A (°)	49-84		52-84				59-84		52-84		54-84				59-84	

Outriggers middle extended (3.6 m) -Over sides-																
Jib length	30.5 m boom + 8.0 m jib								30.5 m boom + 13.0 m jib							
Offset	5°		25°		45°		60°		5°		25°		45°		60°	
Boom angle (°)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)
84	4.2	3.3	6.8	2.3	8.8	1.7	9.7	1.05	5.2	2.0	9.6	1.25	12.8	0.85	14.4	0.55
80	7.4	3.3	9.8	2.3	11.6	1.7	12.2	1.05	9.0	2.0	13.0	1.25	15.8	0.85	16.9	0.55
78	8.9	3.3	11.2	2.3	12.8	1.7	13.3	1.05	10.6	2.0	14.5	1.2	17.2	0.85	18.2	0.55
76	10.3	2.9	12.4	2.25	14.1	1.7	14.5	1.05	12.3	1.9	15.9	1.15	18.4	0.85	19.4	0.55
74	11.4	2.35	13.6	1.85	15.3	1.6	15.6	1.05	13.9	1.8	17.3	1.1	19.7	0.85	20.5	0.55
72	12.5	1.85	14.7	1.5	16.2	1.3	16.7	1.05	15.2	1.45	18.7	1.1	20.9	0.85	21.6	0.55
70	13.6	1.45	15.8	1.2	17.3	1.1	17.7	1.05	16.5	1.15	19.9	0.92	22.1	0.82	22.7	0.55
68	14.8	1.15	16.9	0.98	18.3	0.89	18.8	0.87	17.7	0.93	21.0	0.74	23.1	0.67	23.7	0.55
65	16.5	0.81	18.5	0.69	19.7	0.63	20.2	0.62	19.7	0.64	22.7	0.51	24.6	0.47	25.1	0.46
60	19.3	0.35														
A (°)	59-84		64-84								64-84					

R: Working radius W: Total rated load A= Boom angle range (for the unladen condition)

[Jib (23.45 m Boom)]

Outriggers fully extended (6.5 m)										-360°-							
Jib length	23.45 m boom + 8.0 m jib								23.45 m boom + 13.0 m jib								
Offset	5°		25°		45°		60°		5°		25°		45°		60°		
Boom angle (°)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	
84	3.0	3.3	5.6	2.3	7.6	1.7	8.6	1.05	4.2	2.0	8.5	1.25	11.6	0.85	13.2	0.55	
80	5.4	3.3	7.8	2.3	9.7	1.7	10.5	1.05	7.0	2.0	11.1	1.25	13.9	0.85	15.3	0.55	
78	6.5	3.3	8.9	2.3	10.7	1.7	11.4	1.05	8.3	2.0	12.2	1.2	15.0	0.85	16.2	0.55	
76	7.6	3.3	9.9	2.3	11.6	1.7	12.3	1.05	9.6	1.9	13.4	1.15	16.0	0.85	17.1	0.55	
74	8.7	3.3	11.0	2.3	12.5	1.65	13.2	1.05	10.9	1.8	14.5	1.1	17.0	0.85	18.1	0.55	
72	9.8	3.3	12.0	2.3	13.4	1.65	14.0	1.05	12.1	1.65	15.6	1.1	18.0	0.85	18.9	0.55	
70	10.9	3.3	13.0	2.3	14.3	1.6	14.8	1.05	13.3	1.6	16.7	1.05	19.0	0.85	19.8	0.55	
68	11.9	3.3	13.9	2.3	15.2	1.55	15.6	1.0	14.4	1.5	17.8	1.0	19.9	0.85	20.5	0.55	
65	13.4	3.3	15.4	2.3	16.4	1.55	16.7	1.0	16.1	1.4	19.3	1.0	21.2	0.84	21.7	0.55	
60	15.9	2.9	17.6	2.3	18.4	1.5	18.5	1.0	18.9	1.25	21.8	0.95	23.3	0.81	23.5	0.54	
55	18.1	2.6	19.7	2.15	20.2	1.45			21.5	1.15	24.0	0.91	25.2	0.79			
53	18.9	2.35	20.4	2.1	20.9	1.45			22.5	1.1	24.9	0.9	25.9	0.79			
50	20.2	2.05	21.5	1.85	21.9	1.45			23.9	1.05	26.1	0.88	26.8	0.78			
47	21.3	1.8	22.5	1.65	22.7	1.45			25.2	1.0	27.2	0.87	27.7	0.78			
45	22.0	1.65	23.1	1.55	23.2	1.45			26.0	1.0	27.9	0.87	28.2	0.78			
40	23.6	1.35	24.5	1.3					28.0	0.95	29.4	0.86					
35	25.1	1.15	25.7	1.1					29.6	0.91	30.6	0.85					
30	26.3	1.0	26.8	0.97					31.0	0.81	31.7	0.76					
25	27.3	0.88	27.6	0.86					32.2	0.71	32.4	0.67					
20	28.1	0.79							33.0	0.63							
15	28.7	0.73							33.6	0.59							
10	29.0	0.7							33.9	0.56							
5	29.0	0.7							33.9	0.56							
A (°)	4-84		24-84		44-84		59-84		4-84		24-84		44-84		59-84		

Outriggers middle extended (6.1 m)										-Over sides-							
Jib length	23.45 m boom + 8.0 m jib								23.45 m boom + 13.0 m jib								
Offset	5°		25°		45°		60°		5°		25°		45°		60°		
Boom angle (°)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	
84	3.0	3.3	5.6	2.3	7.6	1.7	8.6	1.05	4.2	2.0	8.5	1.25	11.6	0.85	13.2	0.55	
80	5.4	3.3	7.8	2.3	9.7	1.7	10.5	1.05	7.0	2.0	11.1	1.25	13.9	0.85	15.3	0.55	
78	6.5	3.3	8.9	2.3	10.7	1.7	11.4	1.05	8.3	2.0	12.2	1.2	15.0	0.85	16.2	0.55	
76	7.6	3.3	9.9	2.3	11.6	1.7	12.3	1.05	9.6	1.9	13.4	1.15	16.0	0.85	17.1	0.55	
74	8.7	3.3	11.0	2.3	12.5	1.65	13.2	1.05	10.9	1.8	14.5	1.1	17.0	0.85	18.1	0.55	
72	9.8	3.3	12.0	2.3	13.4	1.65	14.0	1.05	12.1	1.65	15.6	1.1	18.0	0.85	18.9	0.55	
70	10.9	3.3	13.0	2.3	14.3	1.6	14.8	1.05	13.3	1.6	16.7	1.05	19.0	0.85	19.8	0.55	
68	11.9	3.3	13.9	2.3	15.2	1.55	15.6	1.0	14.4	1.5	17.8	1.0	19.9	0.85	20.5	0.55	
65	13.4	3.3	15.4	2.3	16.4	1.55	16.7	1.0	16.1	1.4	19.3	1.0	21.2	0.84	21.7	0.55	
60	15.9	2.9	17.6	2.3	18.4	1.5	18.5	1.0	18.9	1.25	21.8	0.95	23.3	0.81	23.5	0.54	
55	18.1	2.4	19.6	2.1	20.2	1.45			21.5	1.15	24.0	0.91	25.2	0.79			
53	18.9	2.15	20.4	1.9	20.9	1.45			22.5	1.1	24.9	0.9	25.9	0.79			
50	20.0	1.85	21.4	1.7	21.9	1.45			23.9	1.05	26.1	0.88	26.8	0.78			
47	21.2	1.65	22.4	1.5	22.7	1.45			25.2	1.0	27.2	0.87	27.7	0.78			
45	22.0	1.5	23.0	1.35	23.3	1.37			26.0	1.0	27.9	0.87	28.2	0.78			
40	23.6	1.2	24.5	1.15					28.0	0.95	29.4	0.86					
35	25.0	1.0	25.7	0.97					29.6	0.82	30.7	0.76					
30	26.3	0.87	26.8	0.83					31.0	0.69	31.7	0.65					
25	27.3	0.75	27.6	0.72					32.2	0.59	32.4	0.57					
20	28.1	0.66							33.0	0.52							
15	28.6	0.59							33.6	0.46							
10	28.9	0.55							33.9	0.43							
5	29.0	0.55							33.9	0.43							
A (°)	4-84		24-84		44-84		59-84		4-84		24-84		44-84		59-84		

R: Working radius W: Total rated load A= Boom angle range (for the unladen condition)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Total Rated Loads

[Jib (23.45 m Boom)]

Jib length Offset	Outriggers middle extended (5.0 m)								-Over sides-															
	23.45 m boom + 8.0 m jib								23.45 m boom + 13.0 m jib															
	5°		25°		45°		60°		5°		25°		45°		60°									
Boom angle (°)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)								
84	3.0	3.3	5.6	2.3	7.6	1.7	8.6	1.05	4.2	2.0	8.5	1.25	11.6	0.85	13.2	0.55								
80	5.4	3.3	7.8	2.3	9.7	1.7	10.5	1.05	7.0	2.0	11.1	1.25	13.9	0.85	15.3	0.55								
78	6.5	3.3	8.9	2.3	10.7	1.7	11.4	1.05	8.3	2.0	12.2	1.2	15.0	0.85	16.2	0.55								
76	7.6	3.3	9.9	2.3	11.6	1.7	12.3	1.05	9.6	1.9	13.4	1.15	16.0	0.85	17.1	0.55								
74	8.7	3.3	11.0	2.3	12.5	1.65	13.2	1.05	10.9	1.8	14.5	1.1	17.0	0.85	18.1	0.55								
72	9.8	3.3	12.0	2.3	13.4	1.65	14.0	1.05	12.1	1.65	15.6	1.1	18.0	0.85	18.9	0.55								
70	10.9	3.3	13.0	2.3	14.3	1.6	14.8	1.05	13.3	1.6	16.7	1.05	19.0	0.85	19.8	0.55								
68	11.9	3.3	13.9	2.3	15.2	1.55	15.6	1.0	14.4	1.5	17.8	1.0	19.9	0.85	20.5	0.55								
65	13.4	3.1	15.4	2.3	16.4	1.55	16.7	1.0	16.1	1.4	19.3	1.0	21.2	0.84	21.7	0.55								
60	15.7	2.2	17.5	1.9	18.4	1.5	18.5	1.0	18.9	1.25	21.8	0.95	23.3	0.81	23.5	0.54								
55	17.8	1.65	19.5	1.45	20.2	1.35			21.5	1.15	24.0	0.91	25.2	0.79										
53	18.6	1.45	20.2	1.3	20.9	1.2			22.5	1.1	24.9	0.9	25.9	0.79										
50	19.8	1.2	21.3	1.1	21.8	1.05			23.9	0.98	26.0	0.84	26.8	0.78										
47	21.0	1.0	22.3	0.94	22.7	0.92			25.1	0.83	27.1	0.71	27.7	0.69										
45	21.8	0.93	22.9	0.85	23.2	0.83			25.9	0.74	27.8	0.64	28.2	0.63										
40	23.4	0.71	24.4	0.65					27.8	0.55	29.3	0.49												
35	24.8	0.53	25.7	0.5					29.5	0.41	30.6	0.36												
30	26.1	0.39	26.7	0.36																				
A (°)	29-84				44-84				59-84				34-84				44-84				59-84			

Jib length Offset	Outriggers middle extended (3.6 m)								-Over sides-							
	23.45 m boom + 8.0 m jib								23.45 m boom + 13.0 m jib							
	5°		25°		45°		60°		5°		25°		45°		60°	
Boom angle (°)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)	R(m)	W(t)
84	3.0	3.3	5.6	2.3	7.6	1.7	8.6	1.05	4.2	2.0	8.5	1.25	11.6	0.85	13.2	0.55
80	5.4	3.3	7.8	2.3	9.7	1.7	10.5	1.05	7.0	2.0	11.1	1.25	13.9	0.85	15.3	0.55
78	6.5	3.3	8.9	2.3	10.7	1.7	11.4	1.05	8.3	2.0	12.2	1.2	15.0	0.85	16.2	0.55
76	7.6	3.3	9.9	2.3	11.6	1.7	12.3	1.05	9.6	1.9	13.4	1.15	16.0	0.85	17.1	0.55
74	8.7	3.3	11.0	2.3	12.5	1.65	13.2	1.05	10.9	1.8	14.5	1.1	17.0	0.85	18.1	0.55
72	9.8	3.3	12.0	2.3	13.4	1.65	14.0	1.05	12.1	1.65	15.6	1.1	18.0	0.85	18.9	0.55
70	10.8	2.8	12.9	2.2	14.3	1.6	14.8	1.05	13.3	1.6	16.7	1.05	19.0	0.85	19.8	0.55
68	11.7	2.3	13.8	1.85	15.2	1.55	15.6	1.0	14.4	1.5	17.8	1.0	19.9	0.85	20.5	0.55
65	13.1	1.8	15.2	1.45	16.4	1.3	16.7	1.0	16.1	1.35	19.3	1.0	21.2	0.84	21.7	0.55
60	15.4	1.15	17.3	0.99	18.3	0.91	18.5	0.9	18.8	0.9	21.7	0.74	23.3	0.67	23.5	0.54
55	17.6	0.75	19.3	0.65	20.1	0.61			21.2	0.57	23.9	0.48	25.1	0.44		
53	18.4	0.62	20.1	0.54	20.8	0.5			22.2	0.46	24.7	0.39	25.8	0.37		
50	19.6	0.45	21.2	0.39	21.7	0.37										
A (°)	49-84				59-84				52-84				59-84			

R: Working radius W: Total rated load A= Boom angle range (for the unladen condition)

25t
GR-250N-2

Crawler
Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough
Terrain
Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain
Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial
Platform

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

PRECAUTIONS TO BE TAKEN WHEN THE OUTRIGGERS ARE EXTENDED:

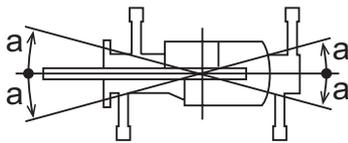
- 1 The total rated loads shown are for the case where the crane is set horizontally on firm level ground. They include the weights of the slings and main winch hook (220 kg) when using the boom, and the weights of the slings and auxiliary winch hook (60 kg) when using the jib. The values above the bold lines are based on the crane strength while those below are based on the crane stability.
- 2 Since the working radii are based on the actual values including deflection of the boom, boom operations should be performed in accordance with the working radii.
- 3 The total rated load for the jib differs for boom lengths of 23.45 m or less and more than 23.45 m.
- 4 Use the boom angle as a reference when using the jib. The working radii are reference values for the case where a jib is mounted to a 23.45 m or a 30.5 m boom.
- 5 The total rated load for the single top is obtained by subtracting 160 kg from total rated load of the boom. It includes the weight of the sling and auxiliary hook (60 kg), and must not exceed 4.0 t.
- 6 High-speed unwind should be performed only when lowering the hook alone, and sudden braking operations must be avoided.
- 7 The table below shows the standard number of part lines for each boom length.

When using with other than this number of part lines, the load per line should not exceed 3.6 t for the main winch, and 4.0 t for the auxiliary winch.

Boom length	9.35 m	16.4 m	23.45 m	30.5 m	Jib/Single top
Number of part lines	8	6	4	4	1

- 8 A single-part line is used for the hook on the jib.
- 9 The hoisting performance for the "Over sides" range will differ according to the extended width of the outriggers. Operations should be performed in accordance with the performance corresponding to the extended width. Also, although the hoisting performances for the "Over front" and "Over rear" ranges are equivalent to those of the outriggers fully extended condition, the front and rear ranges (angle a) will differ according to the width to which the outriggers are extended in the left and right directions.

Extended width	Middle extended (6.1 m)	Middle extended (5.0 m)	Middle extended (3.6 m)	Minimum extended (2.3 m)
Angle a°	35	25	10	5



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Total Rated Loads

2-(2) Outrigger Not Used

Unit: ton

Boom length	Stationary						Vehicle moving (at 1.6 km/h or less)					
	9.35 m		16.4 m		23.45 m		9.35 m		16.4 m		23.45 m	
Working radius	Front	-360°-	Front	-360°-	Front	-360°-	Front	-360°-	Front	-360°-	Front	-360°-
3.0 m	14.0	8.3	9.0	7.3			10.0	6.5	7.5	5.1		
3.5 m	14.0	6.8	9.0	7.3	6.5	4.5	10.0	5.2	7.5	5.1	5.5	3.2
4.0 m	12.5	5.3	9.0	5.85	6.5	4.5	9.0	4.2	7.5	4.4	5.5	3.2
4.5 m	10.9	4.3	9.0	4.75	6.5	4.5	8.2	3.4	7.5	3.7	5.5	3.2
5.0 m	9.55	3.5	8.2	4.0	6.5	4.0	7.4	2.8	7.0	3.1	5.5	3.2
5.5 m	8.3	2.8	7.4	3.3	6.1	3.4	6.7	2.4	6.2	2.7	5.15	2.8
6.0 m	7.2	2.3	6.6	2.8	5.65	2.9	5.9	1.9	5.5	2.3	4.8	2.4
6.5 m	6.25	1.8	5.9	2.35	5.25	2.5	5.1	1.5	4.9	1.9	4.45	2.05
7.0 m			5.25	1.95	4.85	2.15			4.35	1.6	4.15	1.8
8.0 m			4.1	1.4	4.1	1.6			3.4	1.1	3.5	1.4
9.0 m			3.25	0.95	3.5	1.2			2.7	0.7	2.95	1.0
10.0 m			2.6	0.6	3.0	0.85			2.15		2.45	0.65
11.0 m			2.1		2.55	0.55			1.7		2.05	
12.0 m			1.7		2.2				1.35		1.7	
13.0 m			1.35		1.85				1.1		1.45	
13.5 m			1.15		1.7				1.0		1.3	
14.0 m					1.55						1.2	
15.0 m					1.3						1.0	
16.0 m					1.05						0.85	
17.0 m					0.85						0.7	
18.0 m					0.65						0.55	
19.0 m					0.5							
A (°)	0-80		42-80	25-80	56-80	0-80		48-80	30-80	59-80		

A= Boom angle range (for the unladen condition)

25t
GR-250N-2

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

PRECAUTIONS TO BE TAKEN WHEN THE OUTRIGGERS ARE NOT USED:

1 The total rated loads shown are for the case where the tire pressure on firm level ground is as specified (900 kPa (9.00 kgf/cm²)) and the crane is completely spring-locked (minimum telescoped length). They include the weights of the sling and main hook (220 kg).

The values above the bold lines are based on the crane strength while those below are based on the crane stability. The foundation, working conditions, etc. should be taken into consideration for actual work.

2 Since the working radii are based on the actual values including the deflection of the boom and the tires, operations should be performed in accordance with the working radii.

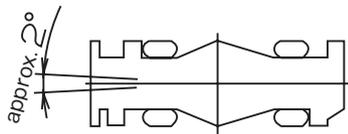
3 The table below shows the standard number of part lines for each boom length.

When using with other than this number of part lines, the load per line should not exceed 3.6 t for the main winch, and 4.0 t for the auxiliary winch.

Boom length	9.35 m	16.4 m	23.45 m	Single top
Number of part lines	4	4	4	1

4 High-speed lowering, work with booms exceeding 23.45 m, and work using jibs, should not be performed without outriggers.

5 "Over front" crane operations should be performed only when the AML "over-front area indicator lamp" is lit. The boom must be kept inside a 2° area over front of the carrier when performing "Over front" crane operations without the outriggers.



6 The total rated load for the single top is obtained by subtracting 160 kg from total rated load of the boom. It includes the weight of the sling and auxiliary hook (60 kg), and must not exceed 4.0 t.

7 The "Drive Mode Selection" switch should be set to "4-wheel / Lo" for travelling while hoisting a load and the shift lever should be set to first.

8 When travelling while hoisting a load, the swing brake should be applied, the load should be kept as close to the ground as possible but not touching the ground and the speed should be kept at 1.6 km/h or less. In particular, any abrupt steering, starting or braking must be avoided.

9 Crane operations should not be performed when travelling while hoisting a load.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

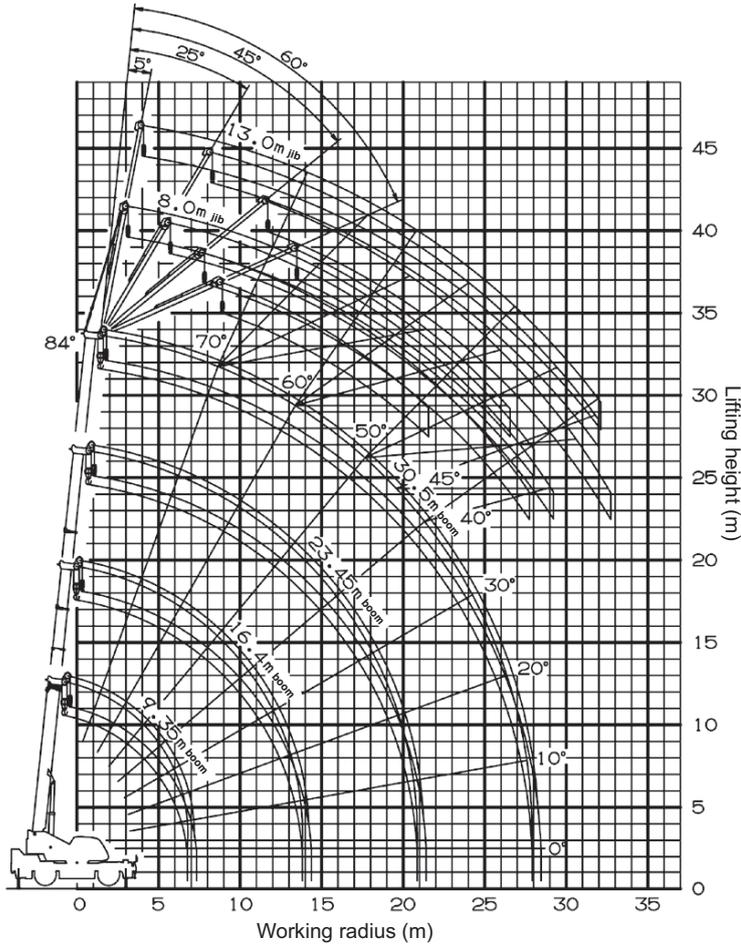
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working Radius - Lifting Height



Note:

1. The deflection of the boom is not incorporated in the figure above.
2. The figure above shows the crane with the maximum outrigger extension (6.5 m).

Crawler Crane

- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2

Rough Terrain Crane

- 25t GR-250N-2
- 30t GR-300EX

- 50t GR-500EXL

- 60t GR-600EX

- 80t GR-800EX

All Terrain Crane

- 160t ATF160G-5

- 200t LTM1200-5.1

- 220t ATF220G-5

Aerial Platform

- Boom Lift

- Scissors Lift

Others

- Truck Mounted Crane

- Forklift

- Tele handler

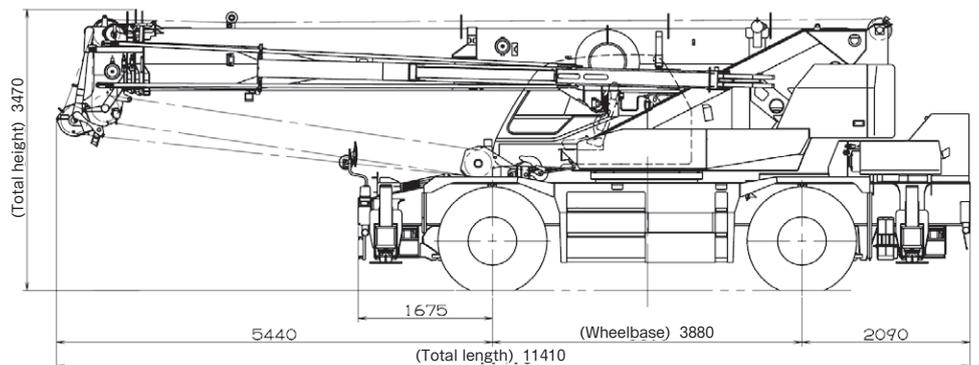
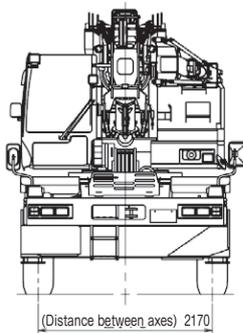
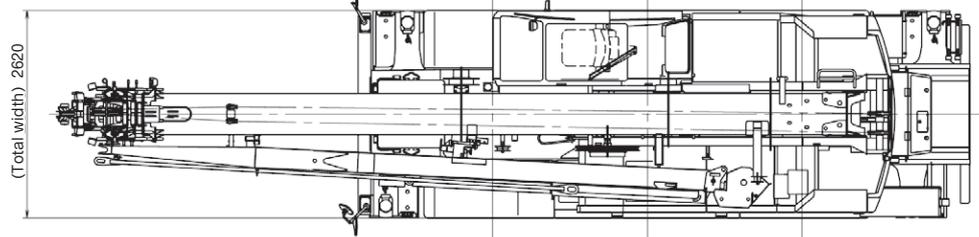
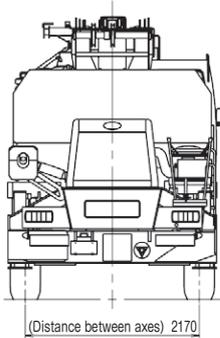
- Excavator

- Bull Dozer

- Vibro Roller
- Baby Roller

- Motor Grader

Dimensions



* The AML external indicator lamp, loud-speaker, rear view monitoring camera, identification lamp, and roadside lamp are optional equipment.

Rough Terrain Crane 30t GR-300EX

Manual PDF

Rough Terrain Crane
30t GR-300EX
(TADANO)



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Crane Specifications

BOOM

4 section full power partially synchronized telescoping boom of round hexagonal box construction with 3 sheaves at boom head. The synchronization system consists of 2 telescope cylinders, an extension cable and retraction cable. Hydraulic cylinder fitted with holding valve. 2 easily removable wire rope guards, rope dead end provided on both sides of boom head. Boom telescope sections are supported by wear pads both vertically and horizontally.

Fully retracted length..... 9.7 m
Fully extended length 31.0 m
Extension speed..... 21.3 m in 91 s
Root diameter..... 0.336 m

BOOM ELEVATION

By a double acting hydraulic cylinder with holding valve. Combination controls for hand or foot operation. Boom angle indicator.

Automatic speed reduction and slow stop function.

Boom angle 0°– 81°
Boom raising speed 20° to 60° in 22 s

JIB

2 stage swing around boom extension swing around type with triple offset (tilt type). Single sheave at jib head.

Box type top section telescopes from lattice type base section which stows alongside base boom section.

Length 7.2 m , 12.8 m
Offset..... 5°, 25°, 45°
Root diameter..... 0.352 m

AUXILIARY LIFTING SHEAVE (SINGLE TOP)

Single sheave mounted to main boom head for single line work(stowable).

Root diameter..... 0.336 m

ANTI-TWO-BLOCK DEVICE

Pendant type over-winding cut out device with audio-visual (FAILURE lamp/BUZZER) warning system.

SLEWING

Hydraulic axial piston motor driven through planetary slewing speed reducer. Continuous 360° full circle slewing on ball bearing.

Equipped with manually locked/released slewing brake. A positive slewing lock for pick and carry and travel modes, manually engaged in cab. Twin slewing system : Free slewing or lock slewing controlled by selector switch on front console.
Slewing speed 3.2 min⁻¹ {rpm}

WINCH

MAIN WINCH

Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising.

Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of auxiliary winch. Equipped with cable follower and drum rotation indicator.

MAIN DRUM

Root diameter x wide 0.32 m x 0.484 m
Wire rope diameter x length 16 mm x 170 m
Drum capacity 219.5 m, 6 layers
Maximum single line pull (1st layer)..... 56.0 kN (5,710 kgf)
Maximum permissible linepull wire strength 49.3 kN (5,030 kgf)

AUXILIARY WINCH

Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising.

Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of main winch. Equipped with cable follower and drum rotation indicator.

AUXILIARY DRUM

Root diameter x wide 0.32 m x 0.263 m
Wire rope diameter x length 16 mm x 98 m
Drum capacity 119.4 m, 6 layers
Maximum single line pull (1st layer).....56.0 kN (5,710 kgf)
Maximum permissible linepull wire strength58.2 kN (5,940 kgf)

WIRE ROPE

Filler or warrington seal wire (spin-resistant), extra improved plow steel, preformed, independent wire rope core, right regular lay.

Main..... 16 mm 6 x 29 class
Auxiliary..... 16 mm 6 x 36 class

HOOK BLOCKS

30 ton
4 sheaves with swivel hook and safety latch
4.0 ton
Weighted hook with swivel and safety latch

HYDRAULIC SYSTEM

PUMPS

2 variable piston pumps for crane functions. Tandem gear pump for steering, slewing and optional equipment. Powered by carrier engine. Pump disconnect for crane is engaged/disengaged by rotary switch from operator's cab.

CONTROL VALVES

Multiple valves actuated by pilot pressure with integral pressure relief valves.

RESERVOIR

380 liters capacity. External sight level gauge.

FILTRATION

BETA10=10 return filter, full flow with bypass protection, located inside of hydraulic reservoir. Accessible for easy replacement.

OIL COOLER - Air cooled fan type.

CAB AND CONTROLS

Both crane and drive operations can be performed from one cab mounted on rotating superstructure.

Left side, 1 man type, steel construction with sliding door access and safety glass windows opening at side. Door window is powered control. Windshield glass window and roof glass window are shatter-resistant. Wiper and washer (front windshield and roof window). Tinted safety glass and sun visor. Tilt-telescoping steering wheel. Adjustable control lever stands for slewing, boom elevating, boom telescoping, auxiliary winch and main winch. Control lever stands can change neutral positions and tilt for easy access to cab. Foot operated controls: boom elevating, boom telescoping, service brake and engine throttle. 3 way adjustable operator's seat with high back, headrest and armrest. Cab floor mat. Engine throttle knob. Hot water cab heater and air conditioning.

Dash-mounted engine start/stop, monitor lamps, cigarette lighter, drive selector switch, parking brake switch, steering mode select switch, power window switch, pump engaged/disengaged switch, slewing brake switch, boom telescoping/auxiliary winch select switch, outrigger control panel, and slewing free/ lock selector switch.

Instruments - Torque converter oil temperature, engine water temperature, air pressure, fuel, speedometer, tachometer, hour meter and odometer / tripmeter. Engine over-run alarm. Back-up alarm. Low oil pressure/high water temp. Warning device (visual). Rear steer centering light. Hydraulic oil pressure is monitored and displayed on the AML-C display panel.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Crane Specifications

TADANO Automatic Moment Limiter

(AML-C) including:

- Control lever lockout function with audible and visual pre-warning
- Number of parts of line
- Boom position indicator
- Outrigger state indicator
- Slewing angle
- Boom angle / boom length / jib offset angle / jib length / load radius / rated lifting capacities / actual loads read out
- Potential lifting height
- Ratio of actual load moment to rated load moment indication
- Permissible load
- Automatic Speed Reduction and Slow Stop function on boom elevation and slewing
- Working condition register switch
- Load radius / boom angle / tip height / slewing range preset function
- External warning lamp
- Tare function

- Main hydraulic oil pressure
- Fuel consumption monitor
- Main winch / auxiliary winch select
- Drum rotation indicator (audible and visible type) main and auxiliary winch
- On-rubber indicator

TADANO AML-C monitors outrigger extended length and automatically programs the corresponding "RATED LIFTING CAPACITIES" table

Operator's right hand console includes transmission gear selector, slewing lock lever and sight level bubble.

Upper right console includes flood lamp switch, roof washer and wiper switch, emergency outrigger set up key switch, jib status switch, eco mode switch, and air conditioning control switch.

Lower right console includes boom emergency telescoping switch (2nd and 3rd-top)

NOTE: Each crane motion speed is based on unladen conditions.

Carrier Specifications

TYPE

Rear engine, left-hand drive, driving axle 2-way selected type by manual switch, 4x2 front drive, 4x4 front and rear drive.

FRAME

High tensile steel, all welded mono-box construction.

ENGINE

Model	Cummins QSB6.7 [EUROMOT Stage IIIA]
Type	Direct injection diesel
No. of cylinders	6
Combustion	4 cycle, turbo charged and after cooled
BorexStroke, mm	107 x 124
Displacement, liters	6.700
Air inlet heater	24 volt preheat
Air cleaner	Dry type, replaceable element
Oil filter	Full flow with replaceable element
Fuel filter	Full flow with replaceable element
Fuel tank, liters	300, right side of carrier
Cooling	Liquid pressurized, recirculating by-pass
Radiator	Fin and tube core, thermostat controlled
Fan, mm	Suction type, 6-blade, 711 dia.
Starting	24 volt
Charging	24 volt system, negative ground
Battery	2-120 amp. Hour
Compressor, air, l /min	430 at 2,500 min ⁻¹
Output, Max. kW (HP)	Gross 160 (220) at 2,500 min ⁻¹
Torque, Max. Nm	843 at 1,600 min ⁻¹
Capacity, liters	
Cooling water	10
Lubrication	15
Fuel	300

TRANSMISSION

Electronically controlled full automatic transmission.

Torque converter driving full powershift with driving axle selector.

6 forward and 2 reverse speeds, constant mesh.

4 speeds - high range - 2-wheel drive; 4-wheel drive

4 speeds - low range - 4-wheel drive

TRAVEL SPEED

GRADE ABILITY (tanθ) - 78% (at stall), 57% *

* Machine should be operated within the limit of engine crankcase design (30°: Cummins QSB6.7)

AXLE

Front: Full floating type, steering and driving axle with planetary reduction.

Rear: Full floating type, steering and driving axle with planetary reduction and non-spin rear differential.

STEERING

Hydraulic power steering controlled by steering wheel.

3 steering modes available: 2 wheel front, 4 wheel coordinated and 4 wheel crab.

SUSPENSION

Front: Semi-elliptic leaf springs with hydraulic lockout device.

Rear: Semi-elliptic leaf springs with hydraulic lockout device.

BRAKE SYSTEMS

Service: Air over hydraulic disc brakes on all 4 wheels.

Parking/Emergency: Spring applied-air released brake acting on input shaft of front axle.

Auxiliary: Electro-pneumatic operated exhaust brake.

TIRES - 445/95R25 (OR) Air pressure: 900 kPa

OUTRIGGERS

4 hydraulic, beam and jack outriggers.

Vertical jack cylinders equipped with integral holding valve.

Each outrigger beam and jack is controlled independently from cab.

Beams extend to 6.3 m center-line and retract to within

2.705 m overall width with floats. Outrigger jack floats

are attached thus eliminating the need of manually attaching and

detaching them. Controls and sight bubble located in

superstructure cab. 4 outrigger extension lengths are provided with

corresponding "RATED LIFTING CAPACITIES" for crane duty in

confined areas.

Min. Extension	2.2 m center to center
Mid. Extension	5.0 m center to center
Mid. Extension	5.9 m center to center
Max. Extension	6.3 m center to center
Float size (Diameter)	0.4 m

COUNTERWEIGHT

Integral with slewing frame Mass... 2,380 kg

Crawler Crane

55t
7055

80t
CKS800

90t
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135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller Baby Roller

Motor Grader

Rated Lifting Capacities

ON OUTRIGGERS FULLY EXTENDED 6.3 m SPREAD 360° ROTATION (Unit: ×1000 kg)								
B	A	9.7 m		16.8 m		24.4 m		31.0 m
	C	C	C	C	C	C	C	
3.0	60.6	30.0	74.4	19.2	79.7	12.5		
3.5	57.0	27.2	72.5	19.2	78.5	12.5		
4.0	53.1	23.4	70.9	19.2	77.5	12.5	80.8	8.4
4.5	49.2	21.3	68.9	18.3	76.3	12.5	80.0	8.4
5.0	44.7	19.6	67.1	17.0	75.0	12.5	79.1	8.4
5.5	40.3	18.1	65.1	15.8	74.0	12.5	78.3	8.4
6.0	34.9	16.6	63.3	14.7	72.8	12.5	77.3	8.4
6.5	28.7	15.2	61.4	13.6	71.5	11.7	76.6	8.4
7.0	18.3	14.1	59.4	12.9	70.3	11.0	75.6	8.1
8.0			54.9	10.9	67.7	9.75	73.7	7.5
9.0			50.5	9.0	65.0	8.75	71.8	6.8
10.0			45.8	7.05	62.4	7.9	69.8	6.2
11.0			40.3	5.8	59.5	6.6	67.6	5.8
12.0			34.3	4.8	56.5	5.6	65.6	5.4
13.0			27.0	4.05	53.6	4.75	63.5	5.0
14.0			15.7	3.4	50.4	4.15	61.3	4.4
15.0					47.0	3.6	59.0	3.85
16.0					43.4	3.2	56.6	3.45
17.0					39.6	2.75	54.2	3.05
18.0					35.5	2.45	51.8	2.65
19.0					30.7	2.05	49.2	2.4
20.0					25.6	1.8	46.6	2.1
22.0							40.8	1.7
24.0							34.4	1.3
26.0							26.2	1.0
28.0							13.4	0.5
D					0°			

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED 6.3 m SPREAD 360° ROTATION								
C	A	9.7 m		16.8 m		24.4 m		31.0 m
	B	B	B	B	B	B	B	
0°	7.2	13.4	14.3	3.2	21.9	1.2	28.5	0.5

ON OUTRIGGERS MID EXTENDED 5.9 m SPREAD OVER SIDE (Unit: ×1000 kg)								
B	A	9.7 m		16.8 m		24.4 m		31.0 m
	C	C	C	C	C	C	C	
3.0	60.6	30.0	74.4	19.2	79.7	12.5		
3.5	57.0	27.2	72.5	19.2	78.5	12.5		
4.0	53.1	23.4	70.9	19.2	77.5	12.5	80.8	8.4
4.5	49.2	21.3	68.9	18.3	76.3	12.5	80.0	8.4
5.0	44.7	19.6	67.1	17.0	75.0	12.5	79.1	8.4
5.5	40.3	18.1	65.1	15.8	74.0	12.5	78.3	8.4
6.0	34.9	16.6	63.3	14.7	72.8	12.5	77.3	8.4
6.5	28.7	15.2	61.4	13.6	71.5	11.7	76.6	8.4
7.0	18.3	12.9	59.4	12.6	70.3	11.0	75.6	8.1
8.0			54.9	9.65	67.7	9.75	73.7	7.5
9.0			50.5	7.7	65.0	8.75	71.8	6.8
10.0			45.8	6.25	62.1	7.05	69.8	6.2
11.0			40.3	5.15	59.4	5.95	67.6	5.8
12.0			34.3	4.2	56.5	4.95	65.5	5.3
13.0			27.0	3.5	53.4	4.2	63.2	4.5
14.0			15.7	2.9	50.2	3.55	61.1	3.85
15.0					46.9	3.05	58.8	3.35
16.0					43.3	2.6	56.5	2.85
17.0					39.5	2.25	54.0	2.5
18.0					35.2	1.85	51.6	2.2
19.0					30.6	1.6	49.1	1.85
20.0					25.1	1.35	46.4	1.6
22.0							40.4	1.15
24.0							33.6	0.8
26.0							25.6	0.55
D					0°			

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED 5.9 m SPREAD OVER SIDE								
C	A	9.7 m		16.8 m		24.4 m		31.0 m
	B	B	B	B	B	B	B	
0°	7.2	12.0	14.3	2.7	21.9	0.9	28.5	0.3

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
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180t
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250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

ON OUTRIGGERS MID EXTENDED 5.0 m SPREAD OVER SIDE (Unit: ×1000 kg)								
B	A	9.7 m		16.8 m		24.4 m		31.0 m
	C	C	C	C	C	C	C	C
3.0		60.6	30.0	74.4	19.2	79.7	12.5	
3.5		57.0	27.2	72.5	19.2	78.5	12.5	
4.0		53.1	23.4	70.9	19.2	77.5	12.5	80.8
4.5		49.2	21.3	68.9	18.3	76.3	12.5	80.0
5.0		44.7	19.6	67.1	17.0	75.0	12.5	79.1
5.5		40.3	15.7	65.1	15.0	74.0	12.5	78.3
6.0		34.9	13.2	63.3	12.65	72.8	12.5	77.3
6.5		28.7	11.3	61.4	10.85	71.5	11.7	76.6
7.0		18.2	9.65	59.4	9.5	70.1	10.4	75.6
8.0				54.9	7.3	67.5	8.2	73.7
9.0				50.5	5.8	64.8	6.7	71.8
10.0				45.8	4.7	62.0	5.5	69.5
11.0				40.3	3.8	59.3	4.65	67.3
12.0				34.3	3.1	56.3	3.9	65.2
13.0				27.0	2.55	53.0	3.25	63.0
14.0				15.7	1.9	49.9	2.75	60.8
15.0						46.6	2.3	58.5
16.0						43.0	1.9	56.1
17.0						39.4	1.6	53.8
18.0						35.2	1.35	51.3
19.0						30.5	1.1	48.7
20.0						24.9	0.75	46.0
22.0								40.3
D					0°			26°

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED 5.0 m SPREAD OVER SIDE						
C	A	9.7 m		16.8 m		24.4 m
	B	B	B	B	B	B
0°		7.2	9.0	14.3	1.8	21.9

ON OUTRIGGERS MIN EXTENDED 2.2 m SPREAD OVER SIDE (Unit: ×1000 kg)								
B	A	9.7 m		16.8 m		24.4 m		31.0 m
	C	C	C	C	C	C	C	C
3.0		60.6	13.2	74.2	13.0	79.5	12.5	
3.5		57.0	10.25	72.2	9.8	78.4	10.9	
4.0		53.1	8.0	70.5	7.8	77.2	8.8	79.9
4.5		49.2	6.7	68.4	6.45	75.9	7.25	79.0
5.0		44.7	5.7	66.8	5.3	74.6	6.2	77.9
5.5		40.3	4.7	64.6	4.4	73.3	5.2	77.0
6.0		34.9	3.85	62.8	3.65	72.0	4.4	76.1
6.5		28.7	3.3	60.9	3.05	70.6	3.8	75.1
7.0		18.3	2.7	58.7	2.6	69.5	3.3	74.1
8.0				54.6	1.85	66.7	2.4	72.3
9.0				50.2	1.2	64.1	1.75	70.3
10.0				45.1	0.55	61.3	1.35	68.3
11.0						58.7	0.95	66.2
12.0						55.9	0.55	64.3
13.0								62.2
D			0°		40°		53°	

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MIN EXTENDED 2.2 m SPREAD OVER SIDE						
C	A	9.7 m				
	B	B	B	B	B	B
0°		7.2	2.5			

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

Boom length	9.7 m	9.7 m to 16.8 m	16.8 m to 31.0 m	Single top / Jib
Number of parts of line	8	6	4	1

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Rated Lifting Capacities

ON OUTRIGGERS FULLY EXTENDED 6.3 m SPREAD							360° ROTATION (Unit: ×1000 kg)						
C	31.0-m Boom + 7.2-m Jib						C	31.0-m Boom + 12.8-m Jib					
	5° Tilt		25° Tilt		45° Tilt			5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W		R	W	R	W	R	W
80°	5.9	3.5	8.1	2.4	9.8	1.7	80°	7.7	2.2	11.7	1.2	14.6	0.8
77.5°	7.7	3.5	9.8	2.3	11.4	1.65	77.5°	9.8	2.15	13.5	1.15	16.3	0.78
75°	9.4	3.5	11.4	2.2	12.9	1.6	75°	11.8	2.1	15.3	1.1	17.9	0.75
72.5°	11.2	3.23	13.0	2.1	14.4	1.55	72.5°	13.6	1.93	17.1	1.05	19.4	0.73
70°	12.7	2.95	14.6	2.0	15.8	1.5	70°	15.5	1.75	18.8	1.0	21.0	0.7
67.5°	14.3	2.75	16.1	1.93	17.2	1.45	67.5°	17.2	1.63	20.5	0.95	22.5	0.68
65°	15.8	2.55	17.5	1.85	18.6	1.4	65°	18.9	1.5	22.0	0.9	23.9	0.65
62.5°	17.3	2.35	19.0	1.8	19.9	1.38	62.5°	20.6	1.4	23.6	0.88	25.2	0.65
60°	18.7	2.15	20.4	1.75	21.2	1.35	60°	22.3	1.3	25.1	0.85	26.6	0.65
57.5°	20.0	1.95	21.6	1.65	22.4	1.33	57.5°	23.8	1.23	26.4	0.8	27.8	0.65
55°	21.4	1.75	22.9	1.55	23.6	1.3	55°	25.4	1.15	27.9	0.75	29.0	0.65
52.5°	22.6	1.55	24.0	1.38	24.7	1.23	52.5°	26.8	1.1	29.2	0.73	30.2	0.63
50°	23.9	1.35	25.2	1.2	25.7	1.15	50°	28.3	1.05	30.5	0.7	31.4	0.6
47.5°	25.0	1.18	26.3	1.1	26.7	1.1	47.5°	29.6	0.9	31.7	0.68	32.5	0.6
45°	26.0	1.0	27.3	1.0	27.7	1.0	45°	30.8	0.75	32.8	0.65	33.5	0.6
42.5°	27.1	0.9	28.2	0.9			42.5°	32.0	0.68	33.8	0.6		
40°	28.1	0.8	29.1	0.8			40°	33.1	0.6	34.8	0.55		
37.5°	29.0	0.7	30.0	0.7			37.5°	34.2	0.53	35.7	0.48		
35°	30.0	0.6	30.8	0.6			35°	35.2	0.45	36.5	0.4		
32.5°	30.8	0.53	31.5	0.53			32.5°	36.1	0.4				
30°	31.6	0.45	32.2	0.45			30°	37.0	0.35				
27.5°	32.3	0.4	32.8	0.38									
25°	33.0	0.35	33.4	0.3									

ON OUTRIGGERS MID EXTENDED 5.9 m SPREAD							OVER SIDE (Unit: ×1000 kg)						
C	31.0-m Boom + 7.2-m Jib						C	31.0-m Boom + 12.8-m Jib					
	5° Tilt		25° Tilt		45° Tilt			5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W		R	W	R	W	R	W
80°	5.9	3.5	8.1	2.4	9.8	1.7	80°	7.7	2.2	11.7	1.2	14.6	0.8
77.5°	7.7	3.5	9.8	2.3	11.4	1.65	77.5°	9.8	2.15	13.5	1.15	16.3	0.78
75°	9.4	3.5	11.4	2.2	12.9	1.6	75°	11.8	2.1	15.3	1.1	17.9	0.75
72.5°	11.2	3.23	13.0	2.1	14.4	1.55	72.5°	13.6	1.93	17.1	1.05	19.4	0.73
70°	12.7	2.95	14.6	2.0	15.8	1.5	70°	15.5	1.75	18.8	1.0	21.0	0.7
67.5°	14.3	2.75	16.1	1.93	17.2	1.45	67.5°	17.2	1.63	20.5	0.95	22.5	0.68
65°	15.8	2.55	17.5	1.85	18.6	1.4	65°	18.9	1.5	22.0	0.9	23.9	0.65
62.5°	17.3	2.35	19.0	1.8	19.9	1.38	62.5°	20.6	1.4	23.6	0.88	25.2	0.65
60°	18.7	2.15	20.4	1.75	21.2	1.35	60°	22.3	1.3	25.1	0.85	26.6	0.65
57.5°	20.0	1.88	21.6	1.6	22.4	1.33	57.5°	23.8	1.23	26.4	0.8	27.8	0.65
55°	21.4	1.6	22.9	1.45	23.6	1.3	55°	25.4	1.15	27.9	0.75	29.0	0.65
52.5°	22.6	1.35	24.0	1.25	24.7	1.15	52.5°	26.8	1.0	29.2	0.73	30.2	0.63
50°	23.9	1.1	25.1	1.05	25.7	1.0	50°	28.2	0.85	30.4	0.7	31.3	0.6
47.5°	25.0	0.95	26.1	0.9	26.7	0.88	47.5°	29.5	0.73	31.6	0.63	32.3	0.55
45°	26.0	0.8	27.1	0.75	27.7	0.75	45°	30.7	0.6	32.7	0.55	33.3	0.5
42.5°	27.1	0.68	28.1	0.63			42.5°	31.9	0.48	33.7	0.45		
40°	28.1	0.55	29.0	0.5			40°	33.1	0.35	34.7	0.35		
37.5°	29.0	0.48	29.8	0.43									
35°	30.0	0.4	30.7	0.35									

ON OUTRIGGERS MID EXTENDED 5.0 m SPREAD							OVER SIDE (Unit: ×1000 kg)						
C	31.0-m Boom + 7.2-m Jib						C	31.0-m Boom + 12.8-m Jib					
	5° Tilt		25° Tilt		45° Tilt			5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W		R	W	R	W	R	W
80°	5.9	3.5	8.1	2.4	9.8	1.7	80°	7.7	2.2	11.7	1.2	14.6	0.8
77.5°	7.7	3.5	9.8	2.3	11.4	1.65	77.5°	9.8	2.15	13.5	1.15	16.3	0.78
75°	9.4	3.5	11.4	2.2	12.9	1.6	75°	11.8	2.1	15.3	1.1	17.9	0.75
72.5°	11.2	3.23	13.0	2.1	14.4	1.55	72.5°	13.6	1.93	17.1	1.05	19.4	0.73
70°	12.7	2.95	14.6	2.0	15.8	1.5	70°	15.5	1.75	18.8	1.0	21.0	0.7
67.5°	14.3	2.7	16.1	1.93	17.2	1.45	67.5°	17.2	1.63	20.5	0.95	22.5	0.68
65°	15.8	2.45	17.5	1.85	18.6	1.4	65°	18.9	1.5	22.0	0.9	23.9	0.65
62.5°	17.1	2.05	18.9	1.65	19.9	1.38	62.5°	20.6	1.38	23.6	0.88	25.2	0.65
60°	18.6	1.65	20.2	1.45	21.1	1.35	60°	22.2	1.25	25.1	0.85	26.6	0.65
57.5°	19.8	1.38	21.5	1.23	22.3	1.15	57.5°	23.7	1.03	26.5	0.75	27.8	0.65
55°	21.1	1.1	22.7	1.0	23.4	0.95	55°	25.1	0.8	27.7	0.65	29.0	0.65
52.5°	22.4	0.93	23.9	0.83	24.5	0.8	52.5°	26.5	0.65	29.0	0.55	30.2	0.55
50°	23.6	0.75	25.0	0.65	25.5	0.65	50°	27.9	0.5	30.3	0.45	31.2	0.45
47.5°	24.8	0.6	26.1	0.5	26.6	0.5							
45°	25.9	0.45	27.1	0.35	27.5	0.35							

C: Boom angle (°)
R: Load radius (m)
W :Rated lifting capacity

Crawler Crane

55t 7055

80t CKS800

90t CKS900

135t CKS1350

180t CKE1800

250t CKE2500-2

Rough Terrain Crane

25t GR-250N-2

30t GR-300EX

50t GR-500EXL

60t GR-600EX

80t GR-800EX

All Terrain Crane

160t ATF160G-5

200t LTM1200-5.1

220t ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

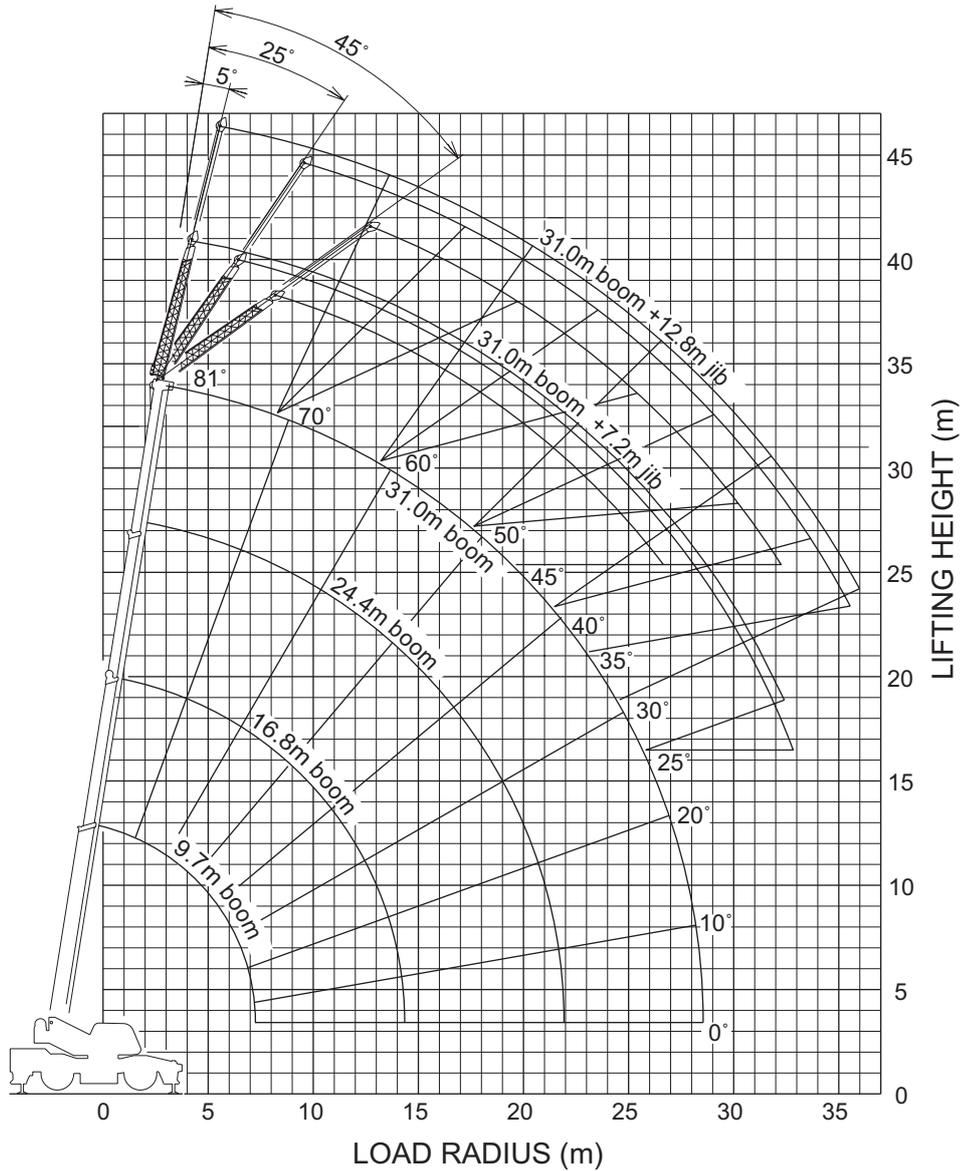
Excavator

Bull Dozer

Vibro Roller Baby Roller

Motor Grader

Working Range Chart



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL

- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

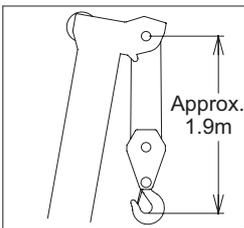
Aerial Platform

- Boom Lift
- Scissors Lift

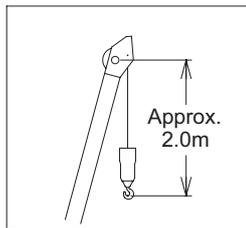
Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

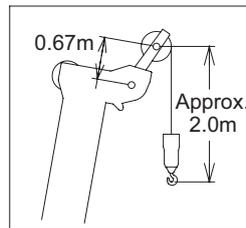
BOOM



JIB

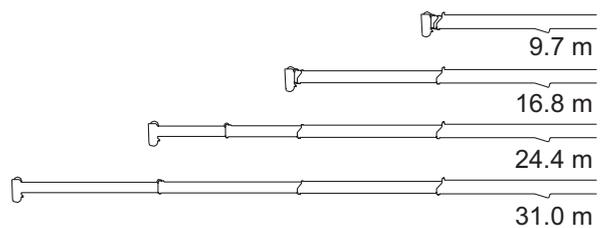


SINGLE TOP



The above lifting height and boom angle are based on a straight (unloaded) boom and machine standing level on firm supporting surface. Allowance should be made for boom deflection obtained under loaded conditions. The above working range is shown on condition with outriggers fully (6.3 m) extended.

Boom Length



Warning And Operating Instructions For Lifting Capacities

GENERAL

1. RATED LIFTING CAPACITIES apply only to the machine as originally manufactured and normally equipped by TADANO LTD. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Hydraulic cranes can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with information in the **Operation and Maintenance Manual** supplied with the crane. If this manual is missing, order a replacement through the distributor.

SET UP

1. Rated lifting capacities on the chart are the maximum allowable crane capacities and are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the loads to a larger bearing surface.
2. For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

OPERATION

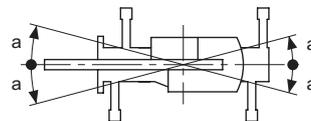
1. Rated lifting capacities on outriggers fully extended as determined by ISO4305.
2. Rated lifting capacities above thick lines in the chart are based on crane strength and those below, on its stability. They are based on actual load radius increased by boom deflection.
3. The weight of handling device such as hook blocks (270 kg for 30 t capacity, 100 kg for 4.0 t capacity), slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
4. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on the boom or jib is extremely dangerous. Such action can damage the boom, jib or slewing mechanism, and lead to overturning of the crane.
5. Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the conditions that the load is out of control due to a strong wind. During boom lift, consider that the rated lifting capacity is reduced by 50% when the wind speed is 9 m/s to 12 m/s, reduced by 70 % when the wind speed is 12 m/s to 14 m/s. If the wind speed is 14 m/s or over, stop operation. During jib lift, stop operation if the wind speed is 9 m/s or over.
6. Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
7. Do not operate at boom lengths, radii, or boom angles, where no capacities are shown. Crane may overturn without any load on the hook.
8. When boom length is between values listed, refer to the rated lifting capacities of the next longer and next shorter booms for the same radius. The lesser of the two rated lifting capacities shall be used.
9. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
10. Load per line should not exceed 39.2 kN (4,000 kgf) for main winch and auxiliary winch.
11. Check the actual number of parts of line with Automatic Moment Limiter (AML-C) before operation. Maximum lifting capacity is restricted by the number of parts of line of Automatic Moment Limiter (AML-C). Limited capacity is as determined from the formula, Single line pull for main winch 39.2 kN (4,000 kgf) x number of parts of line.
12. The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only.

13. The 9.7-m Boom length capacities are based on boom fully retracted.
14. Extension or retraction of the boom with loads may be attempted within the limits of the RATED LIFTING CAPACITIES. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc.
15. For lifting capacity of single top, deduct the weight of the load handling equipment from the rated lifting capacity of the boom. For the lifting capacity of single top, the net capacity shall not exceed 4,000 kg including the main boom hook mass attached to the boom.
16. When a jib is removed, set the jib state switch to the REMOVED position.
17. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
18. Use "ANTI-TWO-BLOCK DEVICE" disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the hoist does not stop, even when overwind condition occurs.
19. For boom length with 7.2-m Jib, rated lifting capacities are determined by loaded boom angle only in the column headed "31.0-m Boom + 7.2-m Jib".
For boom length with 12.8-m Jib, rated lifting capacities are determined by loaded boom angle only in the column headed "31.0-m Boom + 12.8-m Jib".
For angles not shown, use the next lower loaded boom angle to determine allowable capacity.
20. When lifting a load by using jib (aux. winch) and boom (main winch) simultaneously, do the following:
 - Enter the operation status as jib operation, not as boom operation.
 - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.
21. The lifting capacity data stowed in the Automatic Moment Limiter (AML-C) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on outrigger operation should be according to the following table.

Boom length	9.7 m	9.7 m to 16.8 m	16.8 m to 31.0 m	Single top/ jib
Number of parts of line	8	6	4	1

22. The lifting capacity for over side area differs depending on outrigger extension width. Work with capacity corresponding to the extension width. The lifting capacities for over front and over rear areas are for "outriggers fully extended". However, the areas (angle a) differ depending on the outrigger extension width.

Outriggers extended width	5.9 m (middle)	5.0 m (middle)	2.2 m (minimum)
Angle a°	45	40	15



DEFINITIONS

1. Load Radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. Loaded Boom Angle: The angle between the boom base section and the horizontal, after lifting the rated lifting capacity at the load radius.
3. Working Area: Area measured in a circular arc about the centerline of rotation.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Warning And Operating Instructions For Using The Automatic Moment Limiter (AML-C)

- Set AML select keys in accordance with the actually operating crane conditions and don't fail to make sure, before crane operation, that the displays on front panel are correct.
- When operating crane on outriggers:
 - Set P.T.O. switch to "ON".
 - Press the outrigger state select key to register for the outrigger operation. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the pop-up window closes.
 - Press the lift state select key to register the lift state to be used (single top / jib / boom).
 - Each time the lift state select key is pressed, the display changes. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the pop-up window closes.
 - When erecting and stowing jib, select the status of jib set (Jib lift indicative symbol flickers).
- When operating crane on rubber:
 - Set P.T.O. switch to "ON".
 - Press the outrigger state select key to register for the on rubber operation. Each time the outrigger state select key is pressed, the display changes. Select the creep operation, the on rubber state indicative symbol flickers.
 - Press the lift state select key to register the lift state.

However, pay attention to the following.

 - For stationary operation.
 - The front capacities are attainable only when the over front position symbol comes on. When the boom is more than 2 degrees from centered over front of chassis, 360° capacities are in effect.
 - When a load is lifted in the front position and then slewed to the side area, make sure the value of the AUTOMATIC MOMENT LIMITER (AML-C) is below the 360° lifting capacity.
 - For creep operation.
 - The creep capacities are attainable only when boom is in the straight forward position of chassis and the over front position symbol is on. If boom is not in the straight forward position of chassis, never lift load.
- This machine is equipped with an automatic slewing stop device.
(For the details, see Operation and Maintenance Manual.)
But, operate very carefully because the automatic slewing stop does not work in the following cases.
 - During on rubber operation.
- During crane operation, make sure that the displays on front panel are in accordance with actual operating conditions.
- The displayed values of AUTOMATIC MOMENT LIMITER (AML-C) are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tire, operating speed, side loads, etc.
For safe operation, it is recommended when extending and lowering boom or slewing, lifting loads shall be appropriately reduced.
- AUTOMATIC MOMENT LIMITER (AML-C) is intended as an aid to the operator. Under no condition should it be relied upon to replace use of capacity charts and operating instruction.
Sole reliance upon AUTOMATIC MOMENT LIMITER (AML-C) aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.

Axle weight distribution chart

	Kilograms		
	GVW	Front	Rear
Basic machine	27,190	13,650	13,540
Remove: 1. 4.0 ton hook block	-100	-140	40
2. 31.8 ton hook block	-270	-480	210
3. 2-stage jib (7.2m, 12.8m)	-630	-1,085	455

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

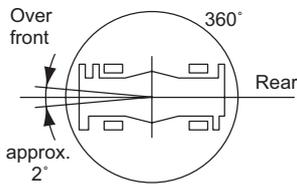
Motor Grader

Warning And Operating Instructions For On Rubber Lifting Capacities

- Rated lifting capacities based on crane stability are according to ISO4305.
- Rated lifting capacities shown in the chart are based on the condition that crane is set on firm level surfaces with suspension lock applied. Those above thick lines are based on tire capacity and those below, on crane stability. They are based on actual load radius increased by tire deformation and boom deflection.
- If the suspension lock cylinders contain air, the axle will not be locked completely and rated lifting capacities may not be obtainable. Bleed the cylinders according to the operation safety and maintenance manual.
- Rated lifting capacities are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of crane.
- tires shall be inflated to correct air pressure.

Tires	Air Pressure
445/95R25	900 kPa

- Over front operation shall be performed within 2 degrees in front of chassis.

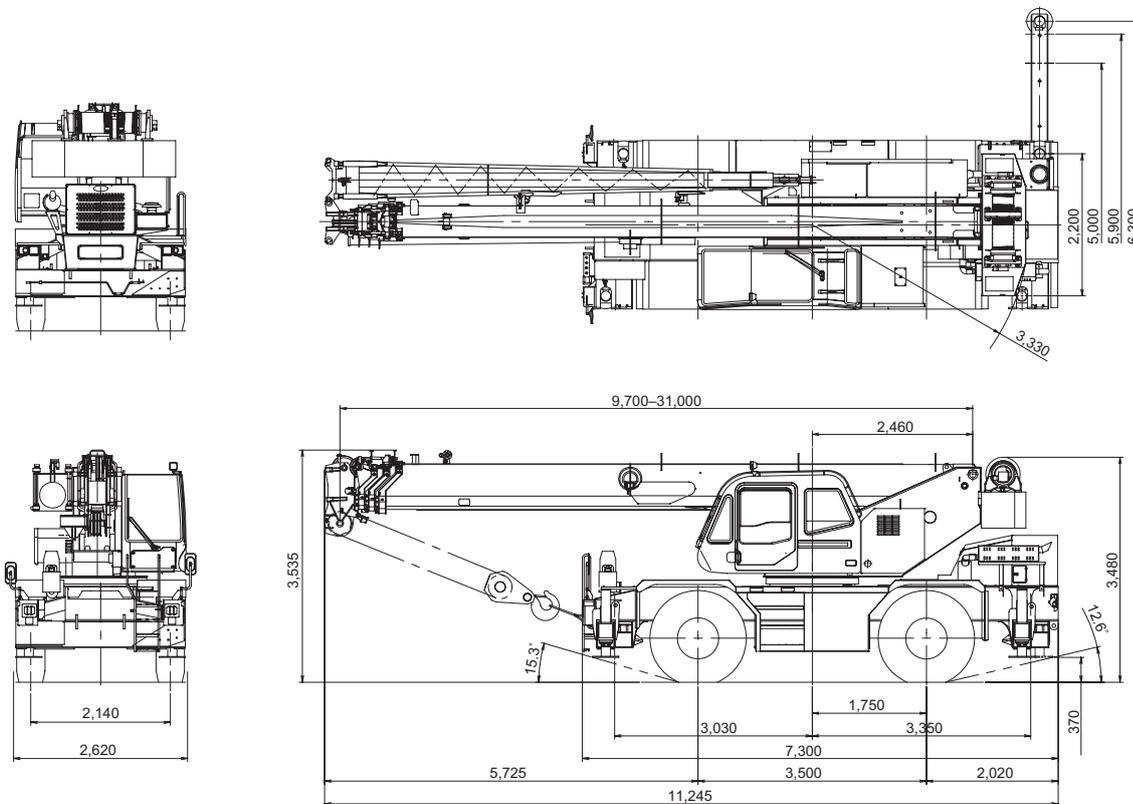


- On rubber lifting with "jib" is not permitted. Maximum permissible boom length is 24.4 m.

- When making lift on rubber stationary, set parking brake.
- For creep operation, boom must be centered over front of machine, slewing lock engaged, and load restrained from slewing. Travel slowly and keep the lifted load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
- Do not operate the crane while carrying the load.
- Creep is motion for crane not to travel more than 60 m in any 30 minutes period and to travel at the speed of less than 1.6 km/h.
- For creep operation, choose the drive mode and proper gear according to the road or working condition.
- The mass of the hook (270 kg for 30 t capacity, 100 kg for 4.0 t capacity), slings and all similarly used load handling devices must be considered as part of the load and must be deducted from the lifting capacities.
- For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reduction for auxiliary load handling equipment. Capacities of single top shall not exceed 4,000 kg including main hook.
- The lifting capacity data stored in the Automatic Moment Limiter (AML-C) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on rubber operation shall be according to the following table.

Boom length in meters	9.7 m	9.7 m to 24.4 m	Single top
Number of parts of line	6	4	1

Dimensions



Note : Dimension is with boom angle at 0 degree.

GENERAL DIMENSIONS

Turning radius (445/95R25 Tires)	
4 wheel steer	6.5 m
2 wheel steer	11.4 m

Overall length	approx. 11,245 mm
Overall width	approx. 2,620 mm
Overall height	approx. 3,535 mm

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Rough Terrain Crane 50t GR-500EXL

Manual PDF

Rough Terrain Crane
50t GR-500EXL
(TADANO)



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7055

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CKS800

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All Terrain Crane

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Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Crane Specifications

BOOM

5 section full power partially synchronized telescoping boom of round hexagonal box construction with 5 sheaves at boom head. The synchronization system consists of 2 telescope cylinders, extension cables and retraction cables. hydraulic cylinder fitted with holding valve. 2 easily removable wire rope guards, rope dead end provided on one side of boom head. Boom telescope sections are supported by wear pads both vertically and horizontally.

Fully retracted length.....	11.1 m
Fully extended length	42.0 m
Extension speed.....	30.9 m in 150 s
Root diameter.....	0.32 m

BOOM ELEVATION

By a pair of double acting hydraulic cylinders with holding valve. Boom angle indicator.

Boom angle	-1°– 80.5°
Boom raising speed	20° to 60° in 30 s

JIB

2 stage boom swing around type with triple offset (tilt type). Single sheave at jib head.

Box type top section telescopes from box type base section which stows alongside base boom section.

Length	8.0 m, 12.7 m
Offset.....	5°, 25°, 45°
Root diameter.....	0.32 m

AUXILIARY LIFTING SHEAVE (SINGLE TOP)

Single sheave mounted to main boom head for single line work(stowable).

Root diameter.....	0.32 m
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ANTI-TWO-BLOCK DEVICE

Pendant type over-winding cut out device with audio-visual (FAILURE lamp/BUZZER) warning system.

SLEWING

Hydraulic axial piston motor driven through planetary slewing speed reducer. Continuous 360° full circle slewing on ball bearing.

Equipped with manually locked/released slewing brake. A positive slewing lock for pick and carry and travel modes, manually engaged in cab. Twin slewing system : Free slewing or lock slewing controlled by selector switch on left side upper console.

Slewing speed	2.1 min ⁻¹ {rpm}
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WINCH

MAIN WINCH

Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising.

Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of auxiliary winch. Equipped with cable follower and drum rotation indicator.

MAIN DRUM

Root diameter x wide	0.32 m x 0.69 m
Wire rope diameter x length	16 mm x 225 m
Drum capacity	304 m, 6 layers
Maximum single line pull (1st layer).....	56.0 kN (5,710 kgf)
Maximum permissible linepull wire strength.....	55.1 kN (5,620 kgf)

AUXILIARY WINCH

Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising.

Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of main winch. Equipped with cable follower and drum rotation indicator.

AUXILIARY DRUM

Root diameter x wide	0.32 m x 0.484 m
Wire rope diameter x length	16 mm x 117 m
Drum capacity	219.5 m, 6 layers
Maximum single line pull (1st layer).....	56.0 kN (5,710 kgf)
Maximum permissible linepull wire strength ...	55.1 kN (5,620 kgf)

WIRE ROPE

Nuflex wire (no-spin), extra improved plow steel, preformed, independent wire rope core, right regular lay.

Main & Auxillary	16 mm 35 x 7 class
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HOOK BLOCKS

51 ton (option)	6 sheaves with swivel hook and safety latch
25 ton (option)	3 sheaves with swivel hook and safety latch
4.5 ton	Weighted hook with swivel and safety latch

HYDRAULIC SYSTEM

PUMPS

2 variable piston pumps for crane functions. Tandem gear pump for steering, slewing and optional equipment. Powered by carrier engine. Pump disconnect for crane is engaged/disengaged by rotary switch from operator's cab.

CONTROL VALVES

Multiple valves actuated by pilot pressure with integral pressure relief valves.

RESERVOIR

690 liters capacity. External sight level gauge.

FILTRATION

BETA10=10 return filter, full flow with bypass protection, located inside of hydraulic reservoir. Accessible for easy replacement.

OIL COOLER - Air cooled fan type.

CAB AND CONTROLS

Both crane and drive operations can be performed from one cab mounted on rotating superstructure.

Right side, 1 man type, steel construction with sliding door access and safety glass windows opening at side. Door window is powered control. Windshield glass window and roof glass window are shatter-resistant. Wiper and washer (front windshield and roof window). Tinted safety glass and sun visor. Tilt-telescoping steering wheel. Adjustable control lever stands for slewing, boom elevating, boom telescoping, auxiliary winch and main winch. Control lever stands can change neutral positions and tilt for easy access to cab. Foot operated controls: boom telescoping, service brake and engine throttle. 3 way adjustable operator's seat with high back, headrest and armrest. Cab floor mat. Engine throttle knob. Hot water cab heater and air conditioning.

Dash-mounted engine start/stop, monitor lamps, cigarette lighter, drive mode selector switch, parking brake switch, steering mode select switch, power window switch, pump engaged/disengaged switch, slewing brake switch, and eco mode switch.

Instruments - Torque converter oil temperature, engine water temperature, air pressure, fuel, speedometer, tachometer, hour meter and odometer / tripmeter. Engin over-run alarm. Back-up alarm. Low oil pressure/high water temp. Warning device (visual). Rear steer centering light. Hydraulic oil pressure is monitored and displayed on the AML-C display panel.

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Aerial Platform

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Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

Crane Specifications

TADANO Automatic Moment Limiter

(AML-C) including:

- Control lever lockout function with audible and visual pre-warning
- Number of parts of line
- Boom position indicator
- Outrigger state indicator
- Slewing angle
- Boom angle / boom length / jib offset angle / jib length / load radius / rated lifting capacities / actual loads read out
- Potential lifting height
- Ratio of actual load moment to rated load moment indication
- Permissible load
- Automatic Speed Reduction and Slow Stop function on slewing
- Working condition register switch
- Load radius / boom angle / tip height / slewing range preset function
- External warning lamp
- Tare function
- Main hydraulic oil pressure
- Fuel consumption monitor

- Main winch / auxiliary winch select
- Drum rotation indicator (audible and visible type) main and auxiliary winch
- On-rubber indicator

TADANO AML-C monitors outrigger extended length and automatically programs the corresponding "RATED LIFTING CAPACITIES" table

Operator's left hand console includes transmission gear selector, sight level bubble, outrigger control panel, jib holding switch and flood lamp switch.

Upper left console includes roof washer and wiper switch, emergency outrigger set up key switch, jib status switch, slewing free/lock selector switch, boom telescoping/auxiliary winch control selector switch and air conditioning control switch. Lower left console includes boom emergency telescoping switch (2nd and 3rd-top) .

Right hand console includes slewing lock lever.

NOTE: Each crane motion speed is based on unladen conditions.

Carrier Specifications

TYPE

Rear engine, right-hand drive, driving axle 2-way selected type by manual switch, 4x2 front drive, 4x4 front and rear drive.

FRAME

High tensile steel, all welded mono-box construction.

ENGINE

Model	MITSUBISHI 6M60-TL
Type	Direct injection diesel
No. of cylinders	6
Combustion	4 cycle, turbo charged and after cooled
Bore x Stroke, mm	118 x 115
Displacement, liters	7.54
Air inlet heater	24 volt preheat
Air cleaner	Dry type, replaceable element
Oil filter	Full flow with replaceable element
Fuel filter	Full flow with replaceable element
Fuel tank, liters	300, right side of carrier
Cooling	Liquid pressurized, recirculating by-pass
Radiator	Fin and tube core, thermostat controlled
Fan, mm	Suction type, 6-blade, 600 dia.
Starting	24 volt
Charging	24 volt system, negative ground
Battery	2-120 amp. Hour
Compressor, air, l/min	830 at 2,600 min ⁻¹
Output, Max. kW (HP)	Gross 200 (267) at 2,600 min ⁻¹
Torque, Max. Nm	785 at 1,400 min ⁻¹
Capacity, liters	
Cooling water	13
Lubrication	13-15
Fuel	300

TRANSMISSION

Electronically controlled full automatic transmission.
Torque converter driving full powershift with driving axle selector.
6 forward and 2 reverse speeds, constant mesh.
4 speeds - high range - 2-wheel drive; 4-wheel drive
3 speeds - low range - 4-wheel drive

TRAVEL SPEED - 48 km/h

GRADE ABILITY (tanθ) - 65% (at stall), 30% *

* Machine should be operated within the limit of engine crankcase design (17°: MITSUBISHI 6M60-TL)

AXLE

Front: Full floating type, steering and driving axle with planetary reduction.

Rear: Full floating type, steering and driving axle with planetary reduction and inter-wheel rear differential lock.

STEERING

Hydraulic power steering controlled by steering wheel.
3 steering modes available: 2 wheel front, 4 wheel coordinated and 4 wheel crab.

SUSPENSION

Front: Semi-elliptic leaf springs.
Rear: Semi-elliptic leaf springs.

BRAKE SYSTEMS

Service/Emergency: Air over hydraulic disc brakes on all 4 wheels.
Parking: Spring applied-air released brake acting on input shaft of front axle.
Auxiliary: Electro-pneumatic operated exhaust brake.

TIRES - 505/95R25 Air pressure: 800 kPa

OUTRIGGERS

4 hydraulic, beam and jack outriggers.
Vertical jack cylinders equipped with integral holding valve.
Each outrigger beam and jack is controlled independently from cab.
Beams extend to 7.0 m center-line and retract to within 2.96 m overall width with floats. Outrigger jack floats are attached thus eliminating the need of manually attaching and detaching them. Controls and sight bubble located in superstructure cab. 4 outrigger extension lengths are provided with corresponding "RATED LIFTING CAPACITIES" for crane duty in confined areas.

Min. Extension	2.48 m center to center
Mid. Extension	5.0 m center to center
Mid. Extension	6.5 m center to center
Max. Extension	7.0 m center to center
Float size (Diameter)	0.4 m

COUNTERWEIGHT

Integral with slewing frame Mass... 5,300 kg

50t
GR-500EXL

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

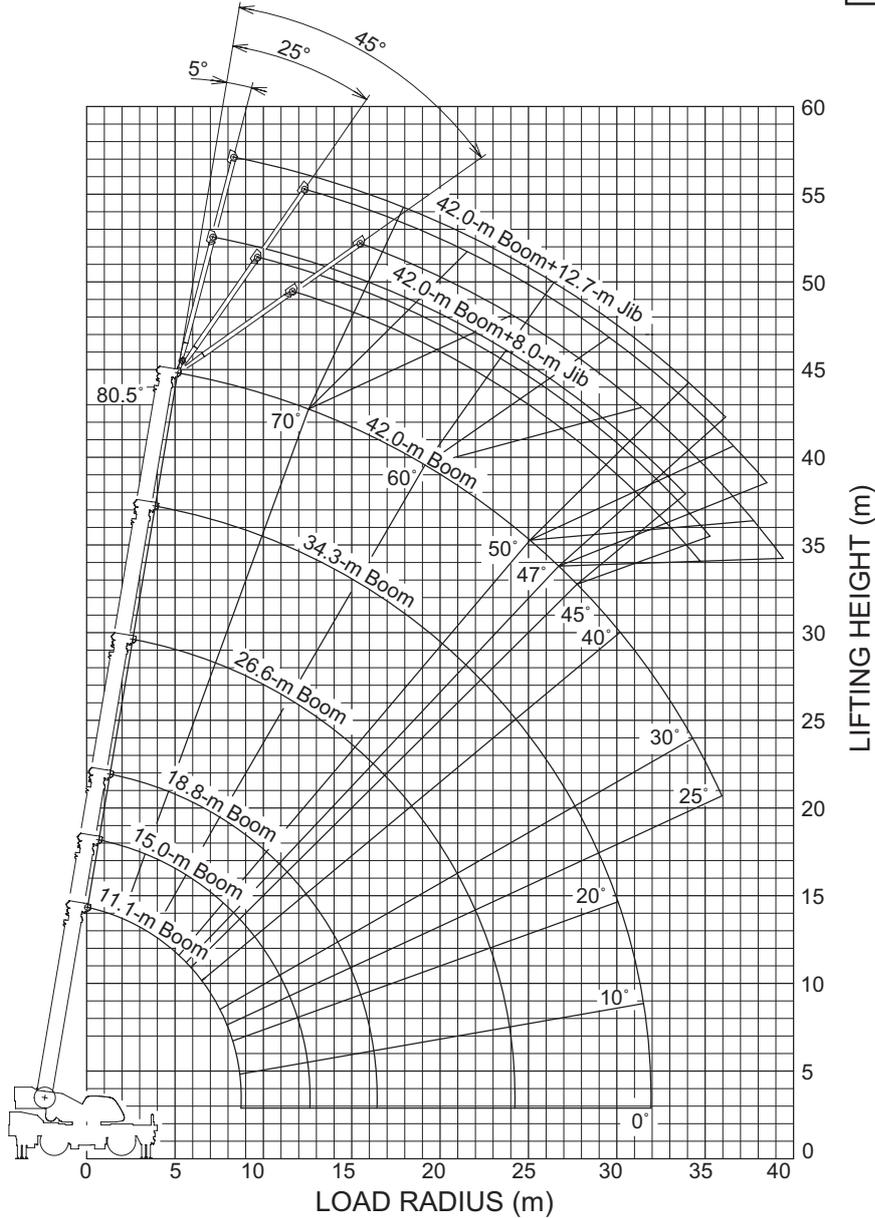
Bull Dozer

Vibro Roller
Baby Roller

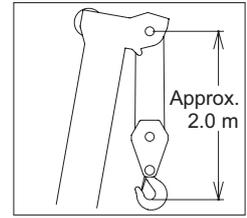
Motor Grader

Working Range Chart

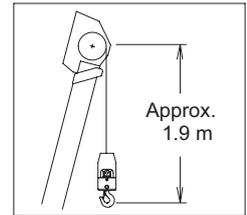
Telescoping mode I



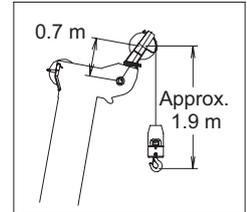
BOOM



JIB



SINGLE TOP



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

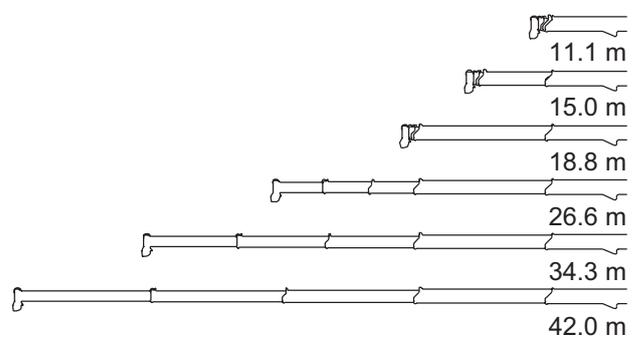
Vibro Roller
Baby Roller

Motor Grader

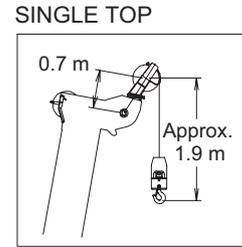
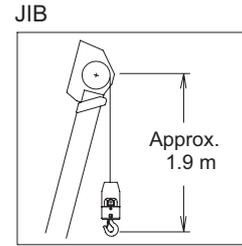
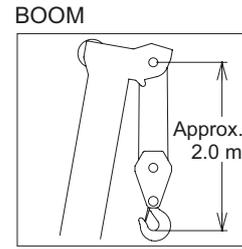
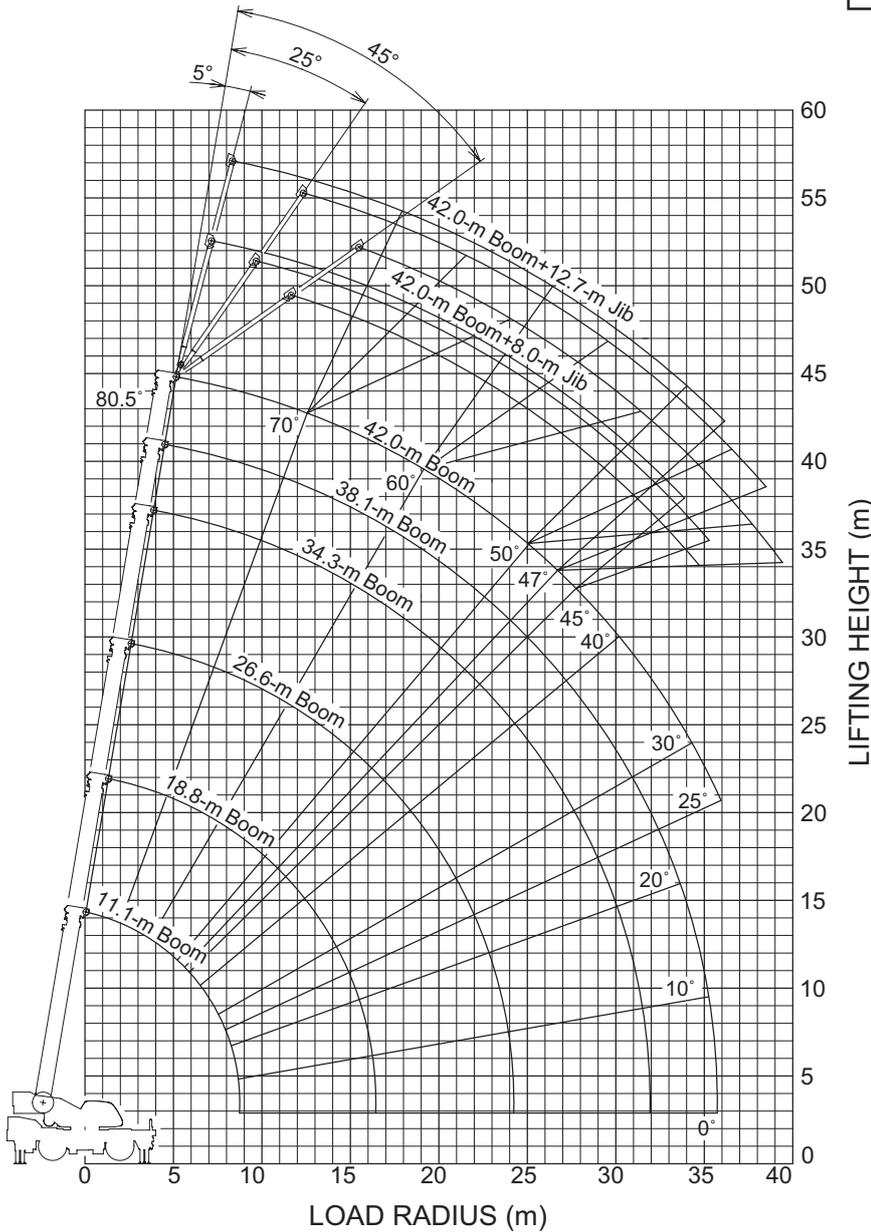
The above lifting height and boom angle are based on a straight (unloaded) boom and machine standing level on firm supporting surface. Allowance should be made for boom deflection obtained under loaded conditions.

The above working range is shown on condition with outriggers fully (7.0 m) extended.

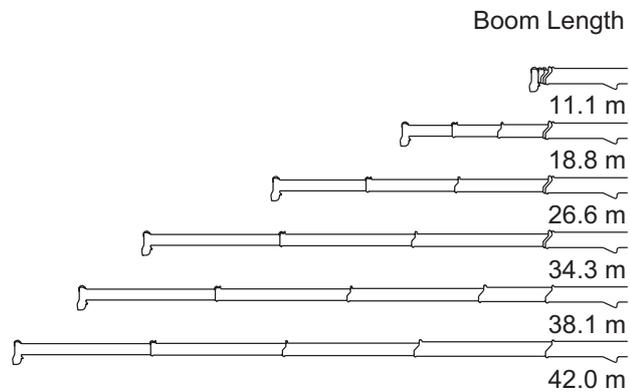
Boom Length



Telescoping mode II



The above lifting height and boom angle are based on a straight (unloaded) boom and machine standing level on firm supporting surface. Allowance should be made for boom deflection obtained under loaded conditions. The above working range is shown on condition with outriggers fully (7.0 m) extended.



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Rated Lifting Capacities

**ON OUTRIGGERS FULLY EXTENDED 7.0 m SPREAD
360° ROTATION (Unit: ×1000 kg)**

B	A		11.1 m		15.0 m		18.8 m		26.6 m		34.3 m		38.1 m		42.0 m	
	C	B	C	B	C	B	C	B	C	B	C	C	B	C	B	
2.5	67	51.0														
3.0	64	50.0														
3.5	61	45.0	69	30.0	74	20.0	74	13.0	79	13.0	79	13.0				
4.0	58	41.6	67	30.0	72	20.0	72	13.0	78	13.0	78	13.0				
4.5	55	37.7	65	30.0	71	20.0	71	13.0	77	13.0	77	13.0				
5.0	52	33.5	63	29.5	69	20.0	69	13.0	76	13.0	76	13.0	80	13.0	80	8.0
5.5	48	30.9	61	27.4	68	20.0	67	13.0	75	13.0	75	13.0	79	13.0	79	8.0
6.0	44	27.5	59	25.6	66	20.0	66	13.0	74	13.0	74	12.3	78	13.0	78	8.0
6.5	40	24.8	56	24.0	64	19.7	64	13.0	73	13.0	73	11.6	77	13.0	77	8.0
7.0	36	22.5	54	22.1	63	18.4	62	13.0	71	13.0	71	11.0	77	13.0	76	8.0
7.5	31	20.5	51	20.1	61	17.3	61	13.0	70	13.0	70	10.5	76	12.7	76	8.0
8.0	24	18.8	49	18.4	59	16.4	59	13.0	69	13.0	69	10.0	75	12.1	75	8.0
9.0			43	15.7	55	14.6	55	13.0	67	12.9	67	9.1	73	11.1	73	7.5
10.0			37	12.8	51	12.6	51	13.0	65	11.6	64	8.3	71	10.2	71	6.8
11.0			29	10.6	47	10.4	47	12.5	62	10.5	62	7.6	70	9.3	69	6.2
12.0			19	8.8	43	8.6	43	10.7	60	9.5	59	7.0	68	8.6	68	5.7
13.0					38	7.3	38	9.2	57	8.2	57	6.5	66	7.9	66	5.2
14.0					32	6.2	32	8.1	54	7.0	54	6.0	64	7.3	64	4.8
16.0					15	4.3	15	6.3	48	5.3	48	5.3	60	5.8	60	4.1
18.0									42	4.0	42	4.7	56	4.5	56	3.6
20.0									35	3.1	35	4.2	52	3.5	52	3.2
22.0									26	2.35	26	3.5	47	2.75	47	2.8
24.0									9	1.7	9	2.9	42	2.1	42	2.5
26.0													36	1.65	37	2.2
28.0													30	1.25	30	2.0
30.0													22	0.9	22	1.7
32.0															28	1.0
34.0															20	0.7
D																25°

Telescoping conditions (%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	100	0	100
3rd boom	0	0	0	33	33	66	66	100	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100	100

**LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED
7.0 m SPREAD 360° ROTATION (Unit: ×1000 kg)**

C	A		11.1 m		15.0 m		18.8 m		26.6 m		34.3 m		38.1 m					
	B	B	B	B	B	B	B	B	B	B	B	B	B					
0°	8.7	15.9	12.8	7.9	16.4	4.0	16.4	5.9	24.2	1.7	24.2	2.8	31.9	0.5	31.9	1.0	35.7	0.3
Telescoping Mode	I, II	I	I	II	II													

**ON OUTRIGGERS MID EXTENDED 6.5 m SPREAD
OVER SIDE (Unit: ×1000 kg)**

B	A		11.1 m		15.0 m		18.8 m		26.6 m		34.3 m		38.1 m		42.0 m		
	C	B	C	B	C	B	C	B	C	B	C	C	B	C	B		
2.5	67	51.0															
3.0	64	50.0															
3.5	61	44.8	69	30.0	74	20.0	74	13.0	79	13.0	79	13.0					
4.0	58	40.2	67	30.0	72	20.0	72	13.0	78	13.0	78	13.0					
4.5	55	36.4	65	30.0	71	20.0	71	13.0	77	13.0	77	13.0					
5.0	52	33.2	63	29.5	69	20.0	69	13.0	76	13.0	76	13.0	80	13.0	80	8.0	
5.5	48	30.4	61	27.4	68	20.0	67	13.0	75	13.0	75	13.0	79	13.0	79	8.0	
6.0	44	27.5	59	25.6	66	20.0	66	13.0	74	13.0	74	12.3	78	13.0	78	8.0	
6.5	40	24.8	56	24.0	64	19.7	64	13.0	73	13.0	73	11.6	77	13.0	77	8.0	
7.0	36	22.5	54	22.1	63	18.4	62	13.0	71	13.0	71	11.0	77	13.0	76	8.0	
7.5	31	20.5	51	19.9	61	17.3	61	13.0	70	13.0	70	10.5	76	12.7	76	8.0	
8.0	22	18.0	49	17.3	59	16.4	59	13.0	69	13.0	69	10.0	75	12.1	75	8.0	
9.0			43	13.6	55	13.2	55	13.0	67	12.9	67	9.1	73	11.1	73	7.5	
10.0			37	11.0	51	10.6	51	12.9	65	11.3	64	8.3	71	10.2	71	6.8	
11.0			29	9.0	47	8.7	47	10.8	62	9.7	62	7.6	70	9.3	69	6.2	
12.0			19	7.5	43	7.2	42	9.2	59	8.2	59	7.0	68	8.3	68	5.7	
13.0					40	6.0	37	8.0	57	7.0	57	6.5	66	7.3	66	5.2	
14.0					32	5.0	32	6.9	54	6.0	54	6.0	64	6.5	64	4.8	
16.0					15	3.4	15	5.3	48	4.5	48	5.3	60	4.9	60	4.1	
18.0									42	3.3	42	4.6	56	3.8	56	3.6	
20.0									35	2.4	35	3.7	52	2.9	52	3.2	
22.0									25	1.7	26	3.0	47	2.2	47	2.8	
24.0									9	1.1	9	2.4	42	1.6	42	2.5	
26.0													36	1.1	37	2.1	
28.0													30	0.7	30	1.7	
30.0															22	1.3	
32.0															20	0.7	
D																12°	35°

Telescoping conditions (%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	100	0	100
3rd boom	0	0	0	33	33	66	66	100	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100	100

**LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED
6.5 m SPREAD OVER SIDE (Unit: ×1000 kg)**

C	A		11.1 m		15.0 m		18.8 m		26.6 m		34.3 m					
	B	B	B	B	B	B	B	B	B	B	B					
0°	8.7	14.9	12.6	3.7	16.4	3.1	16.4	5.0	24.2	1.1	24.2	2.4	31.9	0.2	31.9	0.7
Telescoping Mode	I, II	I	I	II												

A: Boom length (m)
 B: Load radius (m)
 C: Loaded boom angle (°)
 D: Minimum boom angle (°) for indicated boom length (no load)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

ON OUTRIGGERS MID EXTENDED 5.0 m SPREAD OVER SIDE (Unit: ×1000 kg)															
B	11.1 m		15.0 m		18.8 m		26.6 m		34.3 m		38.1 m		42.0 m		
	C	C	C	C	C	C	C	C	C	C	C	C	C	C	
2.5	67	51.0													
3.0	64	45.8	71	30.0	76	20.0	75	13.0							
3.5	61	40.5	69	30.0	74	20.0	74	13.0	79	13.0	79	13.0			
4.0	58	36.2	67	30.0	72	20.0	72	13.0	78	13.0	78	13.0			
4.5	55	32.6	65	29.9	71	20.0	71	13.0	77	13.0	77	13.0			
5.0	52	29.2	63	25.2	69	20.0	69	13.0	76	13.0	76	13.0	80	13.0	
5.5	48	24.7	61	21.7	68	19.3	67	13.0	75	13.0	75	13.0	79	13.0	
6.0	44	20.6	58	18.9	66	16.9	66	13.0	74	13.0	74	12.3	78	13.0	
6.5	40	17.5	56	16.6	64	14.9	64	13.0	73	13.0	73	11.6	77	13.0	
7.0	35	15.1	54	14.5	62	13.2	62	13.0	71	12.9	71	11.0	76	12.2	
7.5	31	13.2	51	12.7	61	11.8	61	13.0	70	11.7	70	10.5	76	11.1	
8.0	24	11.6	49	11.2	59	10.6	59	13.0	69	10.6	69	10.0	75	10.2	
9.0			43	8.8	55	8.5	55	10.6	67	8.8	67	9.1	73	8.6	
10.0			37	7.0	51	6.7	51	8.8	64	7.4	64	8.3	71	7.4	
11.0			29	5.7	47	5.4	47	7.4	62	6.3	62	7.6	69	6.3	
12.0			19	4.5	42	4.3	42	6.3	59	5.4	59	6.7	67	5.5	
13.0					37	3.4	37	5.4	57	4.5	57	5.8	66	4.7	
14.0					32	2.6	32	4.6	54	3.7	54	5.0	64	4.1	
16.0					15	1.5	15	3.4	48	2.5	48	3.9	60	3.0	
18.0									42	1.6	42	2.9	56	2.1	
20.0									35	0.9	35	2.2	51	1.4	
22.0											25	1.7	47	0.9	
24.0													9	1.2	
26.0														42	1.4
28.0														36	1.0
D				0°					18°	0°		37°	13°	40°	50°

Telescoping conditions (%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED 5.0 m SPREAD OVER SIDE (Unit: ×1000 kg)														
C	11.1 m		15.0 m		18.8 m		26.6 m							
	B	B	B	B	B	B	B	B	B	B	B	B	B	B
0°	8.7	9.6	12.6	3.9	16.4	1.3	16.4	3.2						
Telescoping Mode	I, II	I	I	II	II									

ON OUTRIGGERS MIN EXTENDED 2.48 m SPREAD OVER SIDE (Unit: ×1000 kg)														
B	11.1 m		15.0 m		18.8 m		26.6 m		34.3 m		38.1 m		42.0 m	
	C	C	C	C	C	C	C	C	C	C	C	C	C	C
2.5	67	27.8												
3.0	64	21.9	71	18.4										
3.5	61	17.9	69	15.1										
4.0	58	14.9	67	12.6	72	10.9	72	13.0						
4.5	55	12.6	65	10.7	71	9.2	71	11.9	77	9.0	77	10.8		
5.0	51	10.6	63	9.1	69	7.8	69	10.4	76	7.8	76	9.5	80	7.4
5.5	48	8.9	61	7.8	67	6.7	67	9.2	75	6.8	75	8.5	79	6.5
6.0	44	7.6	58	6.7	66	5.7	66	8.2	73	6.0	73	7.7	78	5.8
6.5	40	6.5	56	5.8	64	4.9	64	7.3	72	5.3	72	6.9	77	5.2
7.0	36	5.6	54	5.1	62	4.2	62	6.5	71	4.6	71	6.2	76	4.6
7.5	30	4.9	51	4.3	60	3.6	60	5.9	70	4.1	70	5.7	75	4.1
8.0	24	4.2	48	3.6	59	3.0	58	5.3	69	3.6	69	5.2	74	3.7
9.0			43	2.6	55	2.1	55	4.2	66	2.8	66	4.3	72	2.9
10.0			36	1.7	51	1.4	51	3.4	64	2.1	63	3.6	71	2.3
11.0			29	1.1	47	0.7	47	2.7	61	1.5	62	3.0	69	1.8
12.0					42	2.1	59	1.0	59	2.5	67	1.3	67	2.4
13.0					37	1.6	56	0.6	56	2.0	65	1.0	65	2.1
14.0					31	1.2			54	1.6	63	0.6	63	1.7
16.0					15	0.6			48	0.9			59	1.1
18.0													55	0.6
D				0°		42°	0°	54°	38°	62°	54°	61°	67°	

Telescoping conditions (%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MIN EXTENDED 2.48 m SPREAD OVER SIDE (Unit: ×1000 kg)														
C	11.1 m		15.0 m		18.8 m									
	B	B	B	B	B	B	B	B	B	B	B	B	B	B
0°	8.7	3.2	12.6	0.4	16.4	0.5								
Telescoping Mode	I, II	I	I	II	II									

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

Boom length	11.1 m	11.1 m to 15.0 m	15.0 m to 18.8 m	18.8 m to 42.0 m	Single top/jib
Telescoping mode	I, II	I, II	I, II	I, II	I, II
Number of parts of line	13*12	8	4	4	1

* With attachment sheave (When the lifting capacity over 47,000 kg)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Rated Lifting Capacities

ON OUTRIGGERS FULLY EXTENDED 7.0 m SPREAD
360° ROTATION (Unit: ×1000 kg)

C	42.0-m Boom + 8.0-m jib						42.0-m Boom + 12.7-m jib					
	5° Tilt		25° Tilt		45° Tilt		5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W	R	W	R	W	R	W
80	9.0	4.5	11.7	3.35	13.4	2.2	10.5	2.8	14.2	1.4	17.3	1.0
79	10.1	4.5	12.5	3.25	14.1	2.2	11.5	2.8	15.3	1.4	18.3	1.0
78	11.0	4.5	13.4	3.1	15.0	2.2	12.6	2.8	16.3	1.4	19.2	1.0
77	11.9	4.5	14.3	3.0	15.9	2.15	13.6	2.8	17.2	1.4	20.1	1.0
76	12.9	4.25	15.2	2.9	16.7	2.15	14.6	2.8	18.2	1.4	20.9	1.0
74	14.6	3.85	16.9	2.7	18.3	2.1	16.7	2.8	20.1	1.4	22.7	1.0
72	16.4	3.5	18.5	2.55	20.0	2.05	18.6	2.65	22.0	1.4	24.4	1.0
70	18.0	3.25	20.2	2.35	21.5	2.0	20.5	2.4	23.8	1.4	26.1	1.0
68	19.5	2.95	21.8	2.25	23.0	1.9	22.2	2.2	25.5	1.35	27.6	1.0
65	22.0	2.6	24.1	2.05	25.2	1.8	24.9	1.95	28.0	1.25	30.0	1.0
63	22.5	2.4	25.6	1.95	26.7	1.7	26.6	1.8	29.7	1.25	31.5	1.0
60	25.7	2.15	27.8	1.8	28.8	1.6	29.1	1.65	32.0	1.2	33.7	1.0
58	27.2	1.9	29.2	1.7	30.0	1.55	30.7	1.55	33.5	1.15	35.0	1.0
55	29.3	1.5	31.1	1.35	31.8	1.3	32.9	1.2	35.7	1.1	37.0	0.95
53	30.6	1.25	32.4	1.1	33.0	1.05	34.3	1.0	37.0	0.95	38.2	0.85
50	32.5	0.95	34.1	0.85	34.7	0.8	36.4	0.7	38.9	0.7	39.8	0.65
47	34.3	0.65	35.8	0.6	36.2	0.55	38.3	0.45	40.6	0.45	41.3	0.45
45	35.5	0.5	37.0	0.45								

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Others

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Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

ON OUTRIGGERS FULLY EXTENDED 7.0 m SPREAD
360° ROTATION (Unit: ×1000 kg)

C	38.1-m Boom (telescoping mode II) + 8.0-m jib						38.1-m Boom (telescoping mode II) + 12.7-m jib					
	5° Tilt		25° Tilt		45° Tilt		5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W	R	W	R	W	R	W
80	8.1	4.5	10.7	3.35	12.4	2.2	9.5	2.8	13.4	1.4	16.4	1.0
79	9.0	4.5	11.5	3.25	13.2	2.2	10.5	2.8	14.3	1.4	17.3	1.0
78	9.9	4.5	12.3	3.1	14.0	2.2	11.4	2.8	15.2	1.4	18.1	1.0
77	10.7	4.5	13.1	3.0	14.8	2.15	12.3	2.8	16.1	1.4	18.9	1.0
76	11.5	4.25	13.9	2.9	15.5	2.15	13.3	2.8	17.0	1.4	19.7	1.0
74	13.1	3.85	15.5	2.7	17.0	2.1	15.2	2.8	18.7	1.4	21.3	1.0
72	14.6	3.5	17.0	2.55	18.5	2.05	16.9	2.65	20.4	1.4	22.8	1.0
70	16.2	3.25	18.5	2.35	19.9	2.0	18.7	2.4	22.0	1.4	24.3	1.0
68	17.7	2.95	19.9	2.25	21.3	1.9	20.3	2.2	23.7	1.35	25.9	1.0
65	19.9	2.6	22.0	2.05	23.3	1.8	22.8	1.95	25.9	1.25	28.0	1.0
63	21.4	2.4	23.4	1.95	24.6	1.7	24.3	1.8	27.4	1.25	29.3	1.0
60	23.4	2.15	25.4	1.8	26.4	1.6	26.6	1.65	29.6	1.2	31.3	1.0
58	24.9	2.0	26.7	1.7	27.6	1.55	28.1	1.55	31.0	1.15	32.6	1.0
55	26.7	1.8	28.6	1.6	29.3	1.5	30.3	1.4	33.0	1.1	34.4	0.95
53	28.0	1.7	29.7	1.5	30.4	1.4	31.7	1.35	34.3	1.05	35.5	0.95
50	29.8	1.5	31.5	1.4	32.0	1.35	33.8	1.2	36.1	1.0	37.1	0.95
47	31.5	1.35	33.1	1.25	33.4	1.2	35.5	1.1	37.8	0.95	38.5	0.9
45	32.6	1.15	34.0	1.1	34.3	1.05	36.7	1.0	38.8	0.9	39.4	0.85
43	33.7	1.0	35.0	0.95			37.9	0.85	39.9	0.8		
40	35.1	0.8	36.3	0.75			39.4	0.7	41.2	0.65		
37	36.4	0.65	37.5	0.6			40.9	0.5	42.4	0.5		
35	37.4	0.55	38.3	0.5			41.8	0.45	43.2	0.4		
33	38.2	0.45	39.0	0.45			42.7	0.35	43.9	0.35		
30	39.3	0.35										

ON OUTRIGGERS FULLY EXTENDED 7.0 m SPREAD
360° ROTATION (Unit: ×1000 kg)

C	34.3-m Boom (telescoping mode I) + 8.0-m jib						34.3-m Boom (telescoping mode I) + 12.7-m jib					
	3.5° Tilt		25° Tilt		45° Tilt		3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W	R	W	R	W	R	W
80	7.0	4.5	9.6	3.5	11.4	2.2	8.4	2.8	12.4	1.4	15.5	1.0
79	7.8	4.5	10.3	3.5	12.2	2.2	9.3	2.8	13.2	1.4	16.2	1.0
78	8.5	4.5	11.1	3.5	12.8	2.2	10.2	2.8	14.0	1.4	16.9	1.0
77	9.3	4.5	11.8	3.45	13.5	2.15	11.0	2.8	14.8	1.4	17.7	1.0
76	10.1	4.5	12.5	3.35	14.2	2.15	11.8	2.8	15.6	1.4	18.5	1.0
74	11.5	4.5	13.9	3.15	15.5	2.1	13.5	2.8	17.2	1.4	19.9	1.0
72	13.0	4.25	15.3	3.0	16.8	2.05	15.2	2.65	18.7	1.4	21.3	1.0
70	14.4	3.95	16.7	2.85	18.1	2.0	16.7	2.4	20.2	1.4	22.6	1.0
68	15.8	3.7	18.0	2.7	19.3	1.95	18.2	2.25	21.7	1.35	24.0	1.0
65	17.8	3.35	20.0	2.5	21.2	1.9	20.5	2.0	23.8	1.25	25.9	1.0
63	19.2	3.15	21.2	2.4	22.4	1.9	22.0	1.9	25.2	1.25	27.1	1.0
60	21.0	2.9	23.1	2.25	24.1	1.85	24.1	1.75	27.1	1.2	28.9	1.0
58	22.3	2.75	24.3	2.2	25.2	1.85	25.5	1.65	28.4	1.15	30.0	1.0
55	24.0	2.45	25.9	2.05	26.7	1.8	27.5	1.55	30.2	1.1	31.6	0.95
53	25.2	2.15	27.0	1.95	27.7	1.8	28.8	1.5	31.4	1.1	32.7	0.95
50	26.9	1.75	28.5	1.6	29.1	1.5	30.6	1.4	33.1	1.05	34.1	0.95
47	28.4	1.4	29.9	1.3	30.4	1.25	32.4	1.15	34.6	1.05	35.4	0.95
45	29.4	1.2	30.8	1.1	31.2	1.05	33.4	1.0	35.6	0.9	36.2	0.85
43	30.4	1.05	31.7	0.95			34.5	0.85	36.4	0.8		
40	31.8	0.85	32.9	0.75			36.0	0.65	37.8	0.6		
37	33.0	0.65	34.1	0.6			37.3	0.5	38.9	0.45		
35	33.8	0.55	34.8	0.5			38.2	0.4	39.7	0.35		
33	34.6	0.45	35.4	0.4								

C: boom angle (°)
R: Load radius (m)
W: Rated lifting capacity (Unit: ×1,000 kg)

ON OUTRIGGERS MID EXTENDED 6.5 m SPREAD OVER SIDE (Unit: ×1000 kg)													
C	42.0-m Boom + 8.0-m Jib						42.0-m Boom + 12.7-m Jib						
	5° Tilt		25° Tilt		45° Tilt		5° Tilt		25° Tilt		45° Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80	9.0	4.5	11.7	3.35	13.4	2.2	80	10.5	2.8	14.2	1.4	17.3	1.0
79	10.1	4.5	12.5	3.25	14.1	2.2	79	11.5	2.8	15.3	1.4	18.3	1.0
78	11.0	4.5	13.4	3.1	15.0	2.2	78	12.6	2.8	16.3	1.4	19.2	1.0
77	11.9	4.5	14.3	3.0	15.9	2.15	77	13.6	2.8	17.2	1.4	20.1	1.0
76	12.9	4.25	15.2	2.9	16.7	2.15	76	14.6	2.8	18.2	1.4	20.9	1.0
74	14.6	3.85	16.9	2.7	18.3	2.1	74	16.7	2.8	20.1	1.4	22.7	1.0
72	16.4	3.5	18.5	2.55	20.0	2.05	72	18.6	2.65	22.0	1.4	24.4	1.0
70	18.0	3.25	20.2	2.35	21.5	2.0	70	20.5	2.4	23.8	1.4	26.1	1.0
68	19.5	2.95	21.8	2.25	23.0	1.9	68	22.2	2.2	25.5	1.35	27.6	1.0
65	22.0	2.6	24.1	2.05	25.2	1.8	65	24.9	1.95	28.0	1.25	30.0	1.0
63	23.5	2.25	25.6	1.95	26.7	1.7	63	26.6	1.8	29.7	1.25	31.5	1.0
60	25.6	1.7	27.8	1.6	28.7	1.5	60	29.0	1.45	32.0	1.2	33.7	1.0
58	27.0	1.45	29.0	1.3	30.0	1.2	58	30.5	1.2	33.5	1.1	35.1	1.0
55	29.1	1.05	31.0	0.95	31.7	0.9	55	32.7	0.9	35.6	0.8	36.9	0.7
53	30.6	0.85	32.3	0.75	33.0	0.7	53	34.3	0.7	37.0	0.6	38.1	0.55
50	32.4	0.55	34.0	0.5	34.6	0.45	50	36.3	0.45	38.7	0.35	39.7	0.35

ON OUTRIGGERS MID EXTENDED 6.5 m SPREAD OVER SIDE (Unit: ×1000 kg)													
C	38.1-m Boom (telescoping mode II) + 8.0-m Jib						38.1-m Boom (telescoping mode II) + 12.7-m Jib						
	5° Tilt		25° Tilt		45° Tilt		5° Tilt		25° Tilt		45° Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80	8.1	4.5	10.7	3.35	12.4	2.2	80	9.5	2.8	13.4	1.4	16.4	1.0
79	9.0	4.5	11.5	3.25	13.2	2.2	79	10.5	2.8	14.3	1.4	17.3	1.0
78	9.9	4.5	12.3	3.1	14.0	2.2	78	11.4	2.8	15.2	1.4	18.1	1.0
77	10.7	4.5	13.1	3.0	14.8	2.15	77	12.3	2.8	16.1	1.4	18.9	1.0
76	11.5	4.25	13.9	2.9	15.5	2.15	76	13.3	2.8	17.0	1.4	19.7	1.0
74	13.1	3.85	15.5	2.7	17.0	2.1	74	15.2	2.8	18.7	1.4	21.3	1.0
72	14.6	3.5	17.0	2.55	18.5	2.05	72	16.9	2.65	20.4	1.4	22.8	1.0
70	16.2	3.25	18.5	2.35	19.9	2.0	70	18.7	2.4	22.0	1.4	24.3	1.0
68	17.7	2.95	19.9	2.25	21.3	1.9	68	20.3	2.2	23.7	1.35	25.9	1.0
65	19.9	2.6	22.0	2.05	23.3	1.8	65	22.8	1.95	25.9	1.25	28.0	1.0
63	21.4	2.4	23.4	1.95	24.6	1.7	63	24.3	1.8	27.4	1.25	29.3	1.0
60	23.4	2.15	25.4	1.8	26.4	1.6	60	26.6	1.65	29.6	1.2	31.3	1.0
58	24.9	2.0	26.7	1.7	27.6	1.55	58	28.1	1.55	31.0	1.15	32.6	1.0
55	26.7	1.8	28.6	1.6	29.3	1.5	55	30.3	1.4	33.0	1.1	34.4	0.95
53	27.9	1.55	29.7	1.4	30.4	1.35	53	31.7	1.35	34.3	1.05	35.5	0.95
50	29.8	1.25	31.5	1.1	32.0	1.05	50	33.6	1.05	36.1	0.9	37.1	0.85
47	31.4	0.95	32.9	0.9	33.3	0.85	47	35.4	0.8	37.7	0.7	38.4	0.65
45	32.5	0.8	33.9	0.75	34.2	0.7	45	36.6	0.7	38.7	0.6	39.3	0.55
43	33.6	0.65	34.9	0.6			43	37.7	0.55	39.7	0.5		
40	35.0	0.5	36.2	0.45			40	39.3	0.4	41.1	0.35		
37	36.4	0.35											

ON OUTRIGGERS MID EXTENDED 6.5 m SPREAD OVER SIDE (Unit: ×1000 kg)													
C	34.3-m Boom (telescoping mode I) + 8.0-m Jib						34.3-m Boom (telescoping mode I) + 12.7-m Jib						
	5° Tilt		25° Tilt		45° Tilt		5° Tilt		25° Tilt		45° Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80	7.0	4.5	9.6	3.5	11.4	2.2	80	8.4	2.8	12.4	1.4	15.5	1.0
79	7.8	4.5	10.3	3.5	12.2	2.2	79	9.3	2.8	13.2	1.4	16.2	1.0
78	8.5	4.5	11.1	3.5	12.8	2.2	78	10.2	2.8	14.0	1.4	16.9	1.0
77	9.3	4.5	11.8	3.45	13.5	2.15	77	11.0	2.8	14.8	1.4	17.7	1.0
76	10.1	4.5	12.5	3.35	14.2	2.15	76	11.8	2.8	15.6	1.4	18.5	1.0
74	11.5	4.5	13.9	3.15	15.5	2.1	74	13.5	2.8	17.2	1.4	19.9	1.0
72	13.0	4.25	15.3	3.0	16.8	2.05	72	15.2	2.65	18.7	1.4	21.3	1.0
70	14.4	3.95	16.7	2.85	18.1	2.0	70	16.7	2.4	20.2	1.4	22.6	1.0
68	15.8	3.7	18.0	2.7	19.3	1.95	68	18.2	2.25	21.7	1.35	24.0	1.0
65	17.8	3.35	20.0	2.5	21.2	1.9	65	20.5	2.0	23.8	1.25	25.9	1.0
63	19.2	3.15	21.2	2.4	22.4	1.9	63	22.0	1.9	25.2	1.25	27.1	1.0
60	21.0	2.8	23.1	2.25	24.1	1.85	60	24.1	1.75	27.1	1.2	28.9	1.0
58	22.3	2.4	24.2	2.1	25.2	1.85	58	25.5	1.65	28.4	1.15	30.0	1.0
55	24.0	1.9	25.9	1.7	26.7	1.6	55	27.5	1.55	30.2	1.1	31.6	0.95
53	25.2	1.65	26.9	1.45	27.6	1.35	53	28.8	1.4	31.4	1.1	32.7	0.95
50	26.8	1.25	28.4	1.15	29.0	1.1	50	30.5	1.1	33.0	0.95	34.0	0.85
47	28.3	1.0	29.9	0.9	30.3	0.85	47	32.2	0.8	34.6	0.7	35.3	0.65
45	29.4	0.8	30.8	0.7	31.2	0.7	45	33.4	0.65	35.5	0.55	36.2	0.5
43	30.3	0.65	31.7	0.6			43	34.4	0.55	36.4	0.45		
40	31.7	0.45	32.9	0.4			40	35.9	0.35				

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Rated Lifting Capacities

ON OUTRIGGERS MID EXTENDED 5.0 m SPREAD OVER SIDE (Unit: ×1000 kg)													
C	42.0-m Boom + 8.0-m jib						42.0-m Boom + 12.7-m jib						
	5° Tilt		25° Tilt		45° Tilt		5° Tilt		25° Tilt		45° Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80	9.0	4.5	11.7	3.35	13.4	2.2	80	10.5	2.8	14.2	1.4	17.3	1.0
79	10.1	4.5	12.5	3.25	14.1	2.2	79	11.5	2.8	15.3	1.4	18.3	1.0
78	11.0	4.5	13.4	3.1	15.0	2.2	78	12.6	2.8	16.3	1.4	19.2	1.0
77	11.9	4.5	14.3	3.0	15.9	2.15	77	13.6	2.8	17.2	1.4	20.1	1.0
76	12.9	4.25	15.2	2.9	16.7	2.15	76	14.6	2.8	18.2	1.4	20.9	1.0
74	14.5	3.75	16.9	2.7	18.3	2.1	74	16.7	2.8	20.1	1.4	22.7	1.0
72	16.1	3.0	18.5	2.55	20.0	2.05	72	18.5	2.55	22.0	1.4	24.4	1.0
70	17.7	2.4	20.1	2.1	21.5	1.95	70	20.3	2.05	23.8	1.4	26.1	1.0
68	19.3	1.9	21.6	1.7	23.0	1.6	68	22.0	1.6	25.5	1.35	27.6	1.0
65	21.6	1.3	23.8	1.2	25.0	1.15	65	24.4	1.1	27.8	0.95	29.9	0.9
63	23.1	1.0	25.2	0.9	26.4	0.9	63	26.1	0.8	29.4	0.75	31.3	0.7
60	25.2	0.6	27.3	0.55	28.3	0.55	60	28.5	0.5	31.6	0.45	33.3	0.4
58	26.8	0.4	28.7	0.35	29.7	0.35							

ON OUTRIGGERS MID EXTENDED 5.0 m SPREAD OVER SIDE (Unit: ×1000 kg)													
C	38.1-m Boom (telescoping mode II) + 8.0-m jib						38.1-m Boom (telescoping mode II) + 12.7-m jib						
	5° Tilt		25° Tilt		45° Tilt		5° Tilt		25° Tilt		45° Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80	8.1	4.5	10.7	3.35	12.4	2.2	80	9.5	2.8	13.4	1.4	16.4	1.0
79	9.0	4.5	11.5	3.25	13.2	2.2	79	10.5	2.8	14.3	1.4	17.3	1.0
78	9.9	4.5	12.3	3.1	14.0	2.2	78	11.4	2.8	15.2	1.4	18.1	1.0
77	10.7	4.5	13.1	3.0	14.8	2.15	77	12.3	2.8	16.1	1.4	18.9	1.0
76	11.5	4.25	13.9	2.9	15.5	2.15	76	13.3	2.8	17.0	1.4	19.7	1.0
74	13.1	3.85	15.5	2.7	17.0	2.1	74	15.2	2.8	18.7	1.4	21.3	1.0
72	14.6	3.5	17.0	2.55	18.5	2.05	72	16.9	2.65	20.4	1.4	22.8	1.0
70	16.2	3.25	18.5	2.35	19.9	2.0	70	18.7	2.4	22.0	1.4	24.3	1.0
68	17.7	2.85	19.9	2.25	21.3	1.9	68	20.3	2.2	23.7	1.35	25.9	1.0
65	19.8	2.15	22.0	1.95	23.3	1.8	65	22.7	1.85	25.9	1.25	28.0	1.0
63	21.2	1.8	23.4	1.65	24.5	1.55	63	24.2	1.55	27.4	1.25	29.3	1.0
60	23.2	1.35	25.2	1.25	26.3	1.15	60	26.4	1.15	29.5	1.05	31.3	0.9
58	24.5	1.15	26.5	1.0	27.4	0.95	58	27.8	0.95	30.8	0.8	32.4	0.75
55	26.5	0.8	28.3	0.7	29.1	0.65	55	29.9	0.7	32.8	0.55	34.1	0.5
53	27.7	0.6	29.5	0.55	30.2	0.5	53	31.3	0.5	34.0	0.4	35.2	0.35
50	29.4	0.35											

ON OUTRIGGERS MID EXTENDED 5.0 m SPREAD OVER SIDE (Unit: ×1000 kg)													
C	34.3-m Boom (telescoping mode I) + 8.0-m jib						34.3-m Boom (telescoping mode I) + 12.7-m jib						
	5° Tilt		25° Tilt		45° Tilt		5° Tilt		25° Tilt		45° Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80	7.0	4.5	9.6	3.5	11.4	2.2	80	8.4	2.8	12.4	1.4	15.5	1.0
79	7.8	4.5	10.3	3.5	12.2	2.2	79	9.3	2.8	13.2	1.4	16.2	1.0
78	8.5	4.5	11.1	3.5	12.8	2.2	78	10.2	2.8	14.0	1.4	16.9	1.0
77	9.3	4.5	11.8	3.45	13.5	2.15	77	11.0	2.8	14.8	1.4	17.7	1.0
76	10.1	4.5	12.5	3.35	14.2	2.15	76	11.8	2.8	15.6	1.4	18.5	1.0
74	11.5	4.5	13.9	3.15	15.5	2.1	74	13.5	2.8	17.2	1.4	19.9	1.0
72	13.0	4.25	15.3	3.0	16.8	2.05	72	15.2	2.65	18.7	1.4	21.3	1.0
70	14.4	3.7	16.7	2.85	18.1	2.0	70	16.7	2.4	20.2	1.4	22.6	1.0
68	15.7	3.1	18.0	2.7	19.3	1.95	68	18.2	2.25	21.7	1.35	24.0	1.0
65	17.7	2.35	19.9	2.1	21.2	1.9	65	20.5	2.0	23.8	1.25	25.9	1.0
63	19.0	1.95	21.1	1.75	22.3	1.6	63	21.9	1.65	25.2	1.25	27.1	1.0
60	20.9	1.45	22.9	1.3	24.0	1.15	60	24.0	1.25	27.1	1.05	28.9	0.9
58	22.1	1.2	24.0	1.0	25.0	0.95	58	25.3	1.0	28.3	0.8	29.9	0.7
55	23.9	0.8	25.6	0.7	26.5	0.6	55	27.3	0.65	30.1	0.55	31.5	0.45
53	24.9	0.6	26.7	0.5	27.5	0.45	53	28.5	0.5	31.2	0.35		

C: Loaded boom angle (°)
R: Load radius (m)
W: Rated lifting capacity (Unit: ×1,000 kg)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

ON RUBBER STATIONARY (Unit: ×1000 kg)										
B	A	Over Front						360° Rotation		
		11.1 m		18.8 m		26.6 m		11.1 m		18.8 m
		C		C		C		C		C
3.0		64	13.9	75	8.1					
3.5		61	12.3	74	8.1					
4.0		58	10.9	72	8.1					
4.5		55	9.8	71	8.1	77	3.4			
5.0		51	8.8	69	7.8	76	3.4	51	4.3	
5.5		48	8.0	67	7.2	74	3.4	48	3.5	
6.0		44	7.3	66	6.6	73	3.4	44	2.8	66
6.5		40	6.7	64	6.1	72	3.4	40	2.2	64
7.0		36	5.8	62	5.6	71	3.4	36	1.7	62
7.5		30	5.1	60	5.2	70	3.4	30	1.3	60
8.0		23	4.4	59	4.8	69	3.4	23	0.9	59
9.0				55	4.0	66	3.4			55
10.0				51	3.3	64	3.4			
11.0				47	2.6	62	3.4			
12.0				42	2.1	59	3.2			
13.0				37	1.9	56	2.8			
14.0				32	1.7	54	2.4			
16.0				15	0.9	48	1.7			
18.0						42	1.1			
20.0						34	0.7			
D										
				0°		27°		0°		50°

Telescoping conditions (%)

Telescoping Mode	I, II	II	II	I, II	II
2nd boom	0	0	0	0	0
3rd boom	0	33	66	0	33
4th boom	0	33	66	0	33
Top boom	0	33	66	0	33

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER STATIONARY										
B	A	Over Front						360° Rotation		
		11.1 m		18.8 m				11.1 m		
		B		B				B		
0		8.7	3.5	16.4	0.7			8.7	0.7	
Telescoping Mode		I, II		II				I, II		

ON RUBBER CREEP (Unit: ×1000 kg)										
B	A	Over Front						360° Rotation		
		11.1 m		18.8 m		26.6 m		11.1 m		18.8 m
		C		C		C		C		C
3.0		64	9.1	75	7.2					
3.5		61	7.9	74	7.2					
4.0		58	7.0	72	7.2					
4.5		55	6.2	71	6.7	77	3.1			
5.0		51	5.6	69	6.0	76	3.1	51	3.3	
5.5		48	5.0	67	5.5	74	3.1	48	2.6	
6.0		44	4.5	66	4.9	73	3.1	44	2.1	66
6.5		40	4.1	64	4.5	72	3.1	40	1.6	64
7.0		36	3.7	62	4.1	71	3.1	36	1.2	62
7.5		30	3.4	60	3.8	70	3.1	30	0.9	60
8.0		23	3.0	59	3.5	69	3.1	23	0.6	59
9.0				55	2.9	66	3.1			
10.0				51	2.4	64	3.1			
11.0				47	1.9	62	2.8			
12.0				42	1.5	59	2.4			
13.0				37	1.2	56	2.1			
14.0				32	1.0	54	1.8			
16.0				15	0.6	48	1.2			
18.0						42	0.8			
D				0°		30°		0°		51°

Telescoping conditions (%)

Telescoping Mode	I, II	II	II	I, II	II
2nd boom	0	0	0	0	0
3rd boom	0	33	66	0	33
4th boom	0	33	66	0	33
Top boom	0	33	66	0	33

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER STATIONARY										
B	A	Over Front						360° Rotation		
		11.1 m		18.8 m				11.1 m		
		B		B				B		
0		8.7	2.4	16.4	0.5			8.7	0.5	
Telescoping Mode		I, II		II				I, II		

A: Boom length (m)
 B: Load radius (m)
 C: Loaded boom angle (°)
 D: Minimum boom angle (°) for indicated boom length (no load)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Standard Equipment

- Telematics (machine data logging and monitoring system) with - HELLO-NET via internet (availability depends on countries)
- Eco mode system
- Over unwinding prevention
- Emergency steering system
- Transmission neutral position engine start
- Overshift prevention
- Parking braked travel warning
- Tilt-telescope steering wheel
- Halogen head lamp
- Fenders
- Air dryer
- Water separator with filter (high filtration)
- Air cleaner dust indicator
- Full instrumentation package
- Tire inflation kit
- Towing hooks-Front and rear
- Lifting eyes
- Hook block tie down (front bumper/on carrier deck)
- Weighted hook storage compartment
- Winch drum mirror
- Tool storage compartment

Optional Equipment

- Wind speed indicator
- Beacon lamp
- Electric greaser
- Hook block-51 t capacity (6 sheaves, swivel type with safty latch. Mass: approx. 460 kg)
- Hook block-25 t capacity (3 sheaves, swivel type with safty latch. Mass: approx. 280 kg)
- Attachment sheave for over 47 t lifting

Hoisting Performance

LINE SPEEDS AND PULLS

Layer	Main or auxiliary hoist - 0.32 m drum	
	Line speeds ¹	Line pulls Available ²
	m/min	kN (kgf)
1st	106	56.0 (5,710)
2nd	115	51.1 (5,210)
3rd	124	46.7 (4,760)
4th	132	43.1 (4,400)
5th	141	40.0 (4,080)
6th ³	150	37.3 (3,800)

DRUM WIRE ROPE CAPACITIES

Wire rope layer	Main drum grooved lagging		Auxiliary drum grooved lagging	
	16 mm wire rope		16 mm wire rope	
	Rope per layer	Total wire rope	Rope per layer	Total wire rope
	m	m	m	m
1	41.8	41.8	29.1	29.1
2	45.3	87.1	31.6	60.7
3	48.8	135.9	34.1	94.8
4	52.3	188.2	36.6	131.4
5	55.9	244.1	39.1	170.5
6	59.4	303.5	41.6	212.1

- Maximum permissible line pull wire strength.
Main & Auxiliary: 55.1 kN (5,620 kgf) with 35 x 7 class rope.

1. Line speed based only on hook block, not loaded.
2. Developed by machinery with each layer of wire rope, but not based on rope strength or other limitations in machinery or equipment.
3. Sixth layer of wire rope are not recommended for hoisting operations.

DRUM DIMENSIONS

Root diameter		320 mm
Length	Main	690 mm
	Auxiliary	484 mm
Flange diameter		530 mm

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Warning And Operating Instructions For Lifting Capacities

GENERAL

- RATED LIFTING CAPACITIES apply only to the machine as originally manufactured and normally equipped by TADANO LTD. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
- Hydraulic cranes can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with information in the Operation and Maintenance Manual supplied with the crane. If this manual is missing, order a replacement through the distributor.

SET UP

- Rated lifting capacities on the chart are the maximum allowable crane capacities and are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the loads to a larger bearing surface.
- For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

OPERATION

- Rated lifting capacities on outriggers fully extended as determined by ISO4305.
- Rated lifting capacities above thick lines in the chart are based on crane strength and those below, on its stability. They are based on actual load radius increased by boom deflection.
- The weight of handling device such as hook blocks (460 kg for 51 t capacity, 280 kg for 25 t capacity, 100 kg for 4.5 t capacity), slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
- Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on the boom or jib is extremely dangerous. Such action can damage the boom, jib or slewing mechanism, and lead to overturning of the crane.
- Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the conditions that the load is out of control due to a strong wind. During boom lift, consider that the rated lifting capacity is reduced by 50% when the wind speed is 9 m/s to 12 m/s; reduced by 70 % when the wind speed is 12 m/s to 14 m/s. If the wind speed is 14 m/s or over, stop operation. During jib lift, stop operation if the wind speed is 9 m/s or over.
- Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
- Do not operate at boom lengths, radii or boom angles, where no capacities are shown. Crane may overturn without any load on the hook.
- When boom length is between values listed, refer to the rated lifting capacities of the next longer and next shorter booms for the same radius. The lesser of the two rated lifting capacities shall be used.
- When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
- Load per line should not exceed 44.1 kN (4,500 kgf) for main winch and auxiliary winch.
- Check the actual number of parts of line with Automatic Moment Limiter (AML-C) before operation. Maximum lifting capacity is restricted by the number of parts of line of Automatic Moment Limiter (AML-C). Limited capacity is as determined from the formula, Single line pull for main winch 44.1 kN (4,500 kgf) x number of parts of line.
- The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only.
- The 11.1-m Boom length capacities are based on boom fully retracted.
- Extension or retraction of the boom with loads may be attempted within the limits of the RATED LIFTING CAPACITIES. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc.
- For lifting capacity of single top, deduct the weight of the load handling equipment from the rated lifting capacity of the boom. For the lifting capacity of single top, the net capacity shall not exceed 4,500 kg including the main boom hook mass attached to the boom.

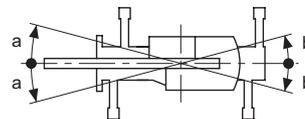
- When a jib is removed, set the jib state switch to the REMOVED position.
- When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
- Use "ANTI-TWO-BLOCK DEVICE" disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the hoist does not stop, even when overwind condition occurs.
- For boom length 42.0 m or less and 34.3 m or longer with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "42.0-m Boom + jib". For boom length 34.3 m or less with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "34.3-m Boom + jib". For angles not shown, use the next lower loaded boom angle to determine allowable capacity. (Telescoping MODE I) For boom length 42.0 m or less and 38.1 m or longer with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "42.0-m Boom + jib". For boom length 38.1 m or less with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "38.1-m Boom + jib". For angles not shown, use the next lower loaded boom angle to determine allowable capacity. (Telescoping MODE II)
- When lifting a load by using jib (aux. winch) and boom (main winch) simultaneously, do the following:
 - Enter the operation status as jib operation, not as boom operation.
 - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.
- Before telescoping the boom, set the telescoping mode selector switch to MODE I or MODE II with the boom fully retracted. A change of the telescoping mode is not permissible when the boom has been partially or fully extended.
- The lifting capacity data stowed in the Automatic Moment Limiter (AML-C) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on outrigger operation should be according to the following table.

Boom length	11.1 m	11.1 m to 15.0 m		15.0 m to 18.8 m		18.8 m to 42.0 m	Single top/ jib
Telescoping mode	I, II	I	II	I	II	I, II	I, II
Number of parts of line	13*/12	8	4	6	4	4	1

* With attachment sheave (When the lifting capacity over 47,000 kg)

- The lifting capacity for over side area differs depending on outrigger extension width. Work with capacity corresponding to the extension width. The lifting capacities for over front and over rear areas are for "outriggers fully extended". However, the areas (angle a and b) differ depending on the outrigger extension width.

Outriggers extended width	6.5 m (middle)	5.0 m (middle)	2.48 m (minimum)
Angle a°	25	15	5
Angle b°	35	20	5



DEFINITIONS

- Load Radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
- Loaded Boom Angle: The angle between the boom base section and the horizontal, after lifting the rated lifting capacity at the load radius.
- Working Area: Area measured in a circular arc about the centerline of rotation.
- Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
- Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Warning And Operating Instructions For Using The Automatic Moment Limiter (AML-C)

- Set AML select keys in accordance with the actually operating crane conditions and don't fail to make sure, before crane operation, that the displays on front panel are correct.
- When operating crane on outriggers:
 - Set P.T.O. switch to "ON".
 - Press the outrigger state select key to register for the outrigger operation. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the pop-up window closes.
 - Press the lift state select key to register the lift state to be used (single top / jib / boom).
 - Each time the lift state select key is pressed, the display changes. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the pop-up window closes.
 - When erecting and stowing jib, select the status of jib set (Jib lift indicative symbol flickers).
- When operating crane on rubber:
 - Set P.T.O. switch to "ON".
 - Press the outrigger state select key to register for the on rubber operation. Each time the outrigger state select key is pressed, the display changes. Select the creep operation, the on rubber state indicative symbol flickers.
 - Press the lift state select key to register the lift state.

However, pay attention to the following.

 - For stationary operation.
 - The front capacities are attainable only when the over front position symbol comes on. When the boom is more than 2 degrees from centered over front of chassis, 360° capacities are in effect.
 - When a load is lifted in the front position and then slewed to the side area, make sure the value of the AUTOMATIC MOMENT LIMITER (AML-C) is below the 360° lifting capacity.
 - For creep operation.
 - The creep capacities are attainable only when boom is in the straight forward position of chassis and the over front position symbol is on. If boom is not in the straight forward position of chassis, never lift load.
- This machine is equipped with an automatic slewing stop device.

(For the details, see Operation and Maintenance Manual.)
But, operate very carefully because the automatic slewing stop does not work in the following cases.

 - During on rubber operation.
- During crane operation, make sure that the displays on front panel are in accordance with actual operating conditions.
- The displayed values of AUTOMATIC MOMENT LIMITER (AML-C) are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tire, operating speed, side loads, etc.

For safe operation, it is recommended when extending and lowering boom or slewing, lifting loads shall be appropriately reduced.
- AUTOMATIC MOMENT LIMITER (AML-C) is intended as an aid to the operator. Under no condition should it be relied upon to replace use of capacity charts and operating instruction. Sole reliance upon AUTOMATIC MOMENT LIMITER (AML-C) aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Axle Weight Distribution Chart

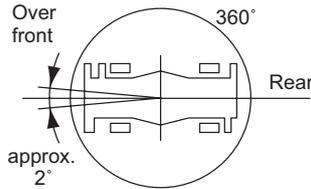
	Kilograms		
	GVW	Front	Rear
Basic machine	38,020	18,220	19,800
Add:			
1. 51 ton hook block (on carrier deck)	460	460	0
2. 51 ton hook block (front bumper)	460	690	-230
3. 25 ton hook block (on carrier deck)	280	280	0
4. 25 ton hook block (front bumper)	280	420	-140
Remove:			
1. 4.5 ton hook block	-100	-150	50
2. 2-stage jib (8.0 m, 12.7 m)	-780	-1,230	450
3. Auxiliary lifting sheave	-50	-135	85

Warning And Operating Instructions For On Rubber Lifting Capacities

- Rated lifting capacities based on crane stability are according to ISO4305.
- Rated lifting capacities shown in the chart are based on the condition that crane is set on firm level surfaces. Those above thick lines are based on tire capacity and those below, on crane stability. They are based on actual load radius increased by tire deformation and boom deflection.
- Rated lifting capacities are based on proper tire inflation, capacity and condition. Damaged tires are hazardous to safe operation of crane.
- Tires shall be inflated to correct air pressure.

Tires	Air Pressure
505/95R25	800 kPa

- Over front operation shall be performed within 2 degrees in front of chassis.



- Maximum permissible boom length is 26.6 m.
- When making lift on rubber stationary, set parking brake.
- For creep operation, boom must be centered over front of machine, slewing lock engaged, and load restrained from slewing. Travel slowly and keep the lifted load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.

- Do not operate the crane while carrying the load.
- Creep is motion for crane not to travel more than 60 m in any 30 minute period and to travel at the speed of less than 1.6 km/h.
- For creep operation, choose the drive mode and proper gear according to the road or working condition.
- The mass of the hook (460 kg for 51 t capacity, 280 kg for 25 t capacity, 100 kg for 4.5 t capacity), slings and all similarly used load handling devices must be considered as part of the load and must be deducted from the lifting capacities.
- For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reductions for auxiliary load handling equipment. Capacities of single top shall not exceed 4,500 kg including main hook.
- The lifting capacity data stowed in the Automatic Moment Limiter (AML-C) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for on rubber operation should be according to the following table.

Boom length	11.1 m	11.1 m to 26.6 m	Single top
Number of parts of line	4	4	1

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GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

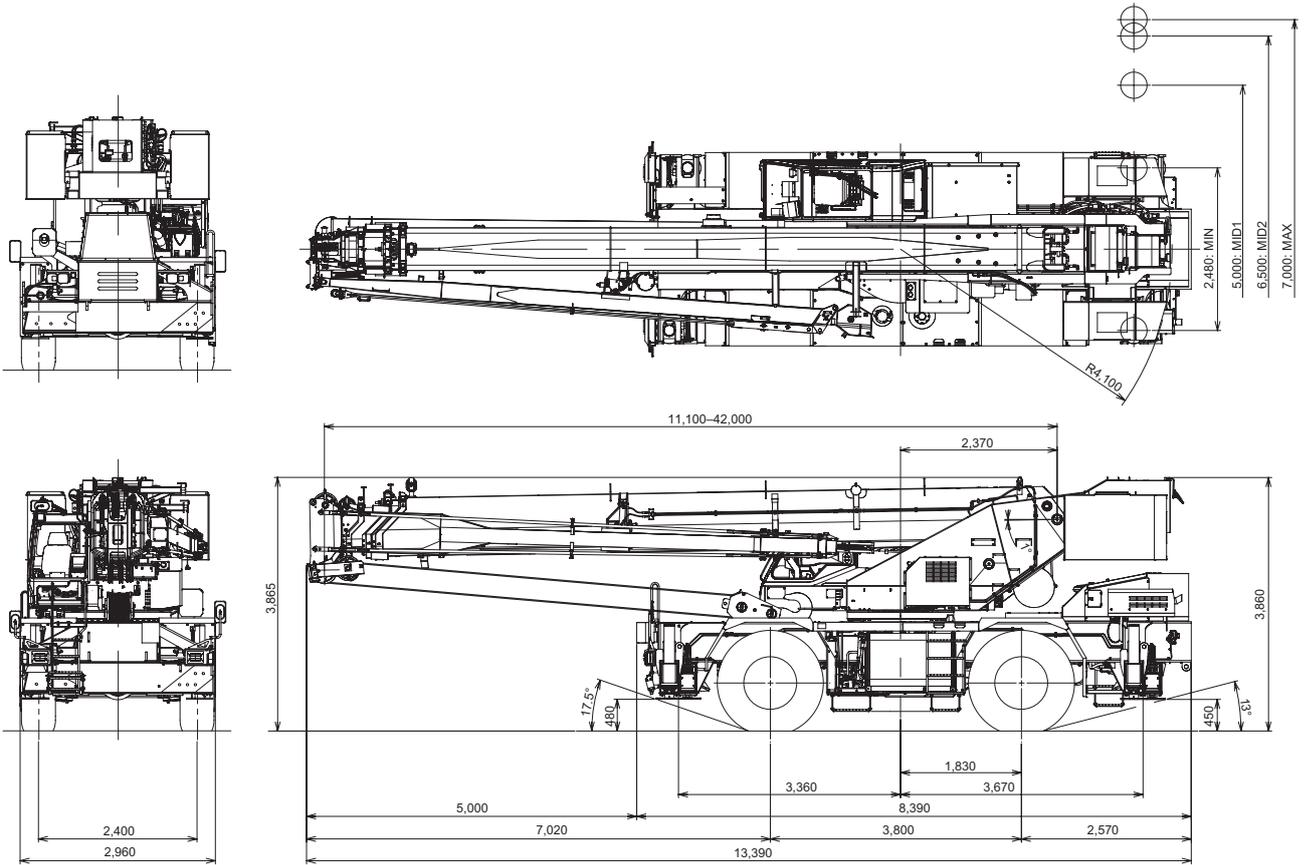
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Dimensions



Note : Dimension is with boom angle at -1 degree.

GENERAL DIMENSIONS

Turning radius (505/95 R25 Tires)	
4 wheel steer	6.3 m
2 wheel steer	10.7 m

Overall length	approx. 13,390 mm
Overall width	approx. 2,960 mm
Overall height	approx. 3,865 mm

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Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Rough Terrain Crane 60t GR-600EX

Manual PDF

Rough Terrain Crane
60t GR-600EX
(TADANO)



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Boom Lift

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Vibro Roller
Baby Roller

Motor Grader

General Data

CRANE CAPACITY	60,000 kg at 3.0 m	
BOOM	5-section, 11.0 m - 43.0 m	
DIMENSION		
Overall length	approx.	13,380 mm
Overall width	approx.	3,315 mm
Overall height	approx.	3,790 mm
MASS		
Gross vehicle mass	approx.	43,735 kg
—front axle	approx.	21,555 kg
—rear axle	approx.	22,180 kg
PERFORMANCE		
Max. travelling speed	computed	36 km/h
Gradeability(tan θ)	computed	147 % (at stall) *30 %

*Machine should be operated within the limit of engine crankcase design (17° : MITSUBISHI 6M60-TL)

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Baby Roller

Motor Grader

Crane Specifications

MODEL

GR-600EX

CAPACITY

60,000 kg at 3.0 m

BOOM

5-section full power partially synchronized telescoping boom of round box construction with 5 sheaves at boom head.

The synchronization system consists of 2 telescope cylinders, extension cables and retraction cables.

Hydraulic cylinders fitted with holding valves.

Fully retracted length11.0 m

Fully extended length43.0 m

Extension speed32.0 m in 128 s

JIB

2-staged swingaround boom extension.

Triple offset (3.5°/25°/45°) type.

Stows alongside base boom section.

Assistant cylinders for mounting and stowing.

Single sheave at jib head.

Length.....10.1 m and 17.7 m

SINGLE TOP (AUXILIARY BOOM SHEAVE)

Single sheave. Mounted to main boom head for single line work.

ELEVATION

By a double-acting hydraulic cylinder, fitted with a holding valve.

Automatic speed reduction and slow stop function.

Boom angle..... -1.6° to 80.3°

Boom raising speed..... 20° to 60° in 46s

HOIST—Main winch

Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting.

Equipped with automatic brake (neutral brake) and counterbalance valve.

Controlled independently of auxiliary winch.

Single line pull54.9 kN {5,600 kgf}

Single line speed136 m/min (at the 4th layer)

Wire rope.....Spin-resistant type

Diameter x length19 mm x 235 m

HOOK BLOCK(Optional) - 60 t capacity

6 sheaves, swivel type hook with safety latch.

HOOK BLOCK(Optional) - 35 t capacity

3 sheaves, swivel type hook with safety latch.

Crane Specifications

60t
GR-600EX

HOIST—Auxiliary winch

Variable speed type with grooved drum driven by hydraulic axial piston motor through winch speed reducer. Power load lowering and hoisting.

Equipped with automatic brake (neutral brake) and counter-balance valve.

Controlled independently of main winch.

- Single line pull54.9 kN {5,600 kgf}
- Single line speed.....136 m/min (at the 4th layer)
- Wire rope.....Spin-resistant type
- Diameter x length19 mm x 133 m

HOOK BLOCK - 5.6 t capacity

Swivel hook with safety latch for single line use.

SWING

Hydraulic axial piston motor driven through planetary speed reducer. Continuous 360° full circle swing on ball bearing slew ring. Equipped with manually locked/released swing brake.

- Swing speed2.4 min⁻¹{rpm}

HYDRAULIC SYSTEM

Pumps.....2 variable piston pumps for telescoping, elevating and winches.
Tandem gear pump for steering, swing and optional equipment.

Control valves.....Multiple valves actuated by pilot pressure with integral pressure relief valves.

Circuit.....Equipped with air cooled type oil cooler.
Oil pressure appears on AML display for main circuit.

Hydraulic oil tank capacity.....
approx. 840 liters

Filters.....Return line filter

CRANE CONTROL

By 4 control levers for swing, boom hoist, main winch, boom telescoping or auxiliary winch with 2 control pedals for boom hoist and boom telescoping based on ISO standard layout. Control lever stands can change neutral positions and tilt for easy access to cab.

CAB

Both crane and drive operations can be performed from one cab mounted on rotating superstructure. One sided one-man type, steel construction with sliding door access and tinted safety glass windows opening at side. Door window is powered control.

Operator's 3 way adjustable seat with headrest and armrest. Hot water cab heater and air conditioning.

TADANO Automatic Moment Limiter (AML) (Model:AML-C)

Main unit in crane cab gives audible and visual warning of approach to overload. Automatically cuts out crane motions before overload.

With working range (load radius and/or boom angle and/or tip height and/or swing range) limit function.

Automatic Speed Reduction and Soft Stop function on boom elevation and swing.

Following functions are displayed.

- Load as percentage
- Number of parts of line of rope
- Boom angle
- Boom length
- Load radius
- Outriggers position
- On-tire indicator
- Actual hook load
- Permissible load
- Boom position indicator
- Potential hook height
- Swing angle
- Main hydraulic oil pressure
- Jib length and jib offset angle (only when jib operation)

OUTRIGGERS

Hydraulically operated H-type outriggers. Each outrigger controlled simultaneously or independently from the cab. Equipped with sight level gauge. Floats mounted integrally with the jacks retract to within vehicle width.

All cylinders fitted with pilot check valves.

Crane operation with different extended length of each outrigger. Equipped with extension width detector for each outrigger.

Extended width

- Fully 7,300 mm
- Middle 6,700 mm
- Middle 5,500 mm
- Minimum 2,700 mm
- Float size (diameter) 600 mm

COUNTERWEIGHT

Integral with swing frame (containing weight with auxiliary winch and wire rope)

- Mass..... 5,670 kg

NOTE : Each crane motion speed is based on unladen conditions.

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Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

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Baby Roller

Motor Grader

Carrier Specifications

TYPE

Rear engine, left-hand steering, driving axle 2-way selected type (by manual switch).
4 x 2 front drive
4 x 4 front and rear drive

FRAME

High-tensile steel, all welded mono-box construction.

ENGINE

Model.....MITSUBISHI 6M60-TL
Type.....4 cycle, turbo charged and after cooled, 6 cylinder in line, direct injection, water cooled diesel engine.
Piston displacement....7,545 cm³
Bore x stroke.....118 mm x 115 mm
Max. output.....200 kW at 2,600 min⁻¹{rpm}
Max. torque.....785 N-m at 1,400 min⁻¹{rpm}

TRANSMISSION

Electronically controlled full automatic transmission.
Torque converter driving full powershift with driving axle selector.
6 forward and 2 reverse speeds.
3 speeds - High range - 2 wheel drive ; 4 wheel drive
3 speeds - Low range - 4 wheel drive

AXLES

Front.....Full floating type, steering and driving axle with planetary reduction.
Rear.....Full floating type, steering and driving axle with planetary reduction.
Non-spin differential.

STEERING

Hydraulic power steering controlled by steering wheel.
Four steering modes available:
2-wheel front
2-wheel rear
4-wheel coordinated
4-wheel crab

SUSPENSION

FrontRigid mounted to the frame.
Rear.....Pivot mounted with hydraulic lockout cylinders.

BRAKE SYSTEM

ServiceAir over hydraulic disc brakes on all 4 wheels.
Parking / Emergency.....
Spring applied-air released brake acting on input shaft of front axle.
Auxiliary....Electro-pneumatic operated exhaust brake.

ELECTRIC SYSTEM

24 V DC. 2 batteries of 12 V - 120 Ah capacity.

FUEL TANK CAPACITY

300 liters

TIRES

Front29.5–25 22PR(OR), Single x 2 Air pressure: 350 kPa
or 29.5–25 28PR(OR), Single x 2 Air pressure: 330 kPa
Rear29.5–25 22PR(OR), Single x 2 Air pressure: 350 kPa
or 29.5–25 28PR(OR), Single x 2 Air pressure: 330 kPa

TURN RADIUS

Min. turning radius (at center of extreme outer tire)
2-wheel steering 11.9 m
4-wheel steering 6.8 m

EQUIPMENT

STANDARD EQUIPMENT

Automatic Moment Limiter (AML)
External lamp (AML)
Pendant type over-winding cutout
Winch automatic fail-safe brake
Cable follower
5.6 t capacity hook block (swivel hook)
Hook safety latch
Pilot check valves
Holding valves
Counterbalance valves
Hydraulic pressure relief valves
Swing brake
Swing lock
Boom angle indicator
Boom elevation foot pedal
Boom telescoping foot pedal
Outrigger extension width detector
Air conditioner (hot water heater and cooler)
Sight level gauge
Hydraulic oil cooler
Electric windshield wiper and washer
Roof window wiper and washer
Power window (cab door)
Tachometer/Speedometer

3 way adjustable cloth seat with seat belt, headrest and armrest
Cab floor mat
Sun visor (front and roof)
Automatic drive system
Transmission neutral position engine start
Overshift prevention
Parking braked travel warning
Tilt-telescope steering wheel
Emergency steering
Back-up alarm
Air cleaner dust indicator
Air dryer
Water separator with filter
Engine over-run alarm
Hydraulic lockout suspension
Non-spin differential (rear)
Towing eyes - front and rear
Telematics(machine data logging and monitoring system) with HELLO-NET via internet (availability depends on countries).
Eco mode system
Winch drum rotation indicator (audible and visual type)
Winch drum mirror
Fuel consumption monitor
Positive control
Eco mode system

OPTIONAL EQUIPMENT

- 60 t capacity hook block (6 sheaves)
- 35 t capacity hook block (3 sheaves)
- Over-unwinding prevention
- Tire inflation kit

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Aerial Platform

Boom Lift

Scissors Lift

Others

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Motor Grader

Rated Lifting Capacities

60t
GR-600EX

ON OUTRIGGERS

ON OUTRIGGERS FULLY EXTENDED 7.3m SPREAD 360° ROTATION (Unit: ×1000kg)														
B \ A	11.0m		15.0m		19.0m		27.0m		35.0m		39.0m		43.0m	
	C		C		C		C		C		C		C	
3.0	68	60.0	74	40.8	78	32.0	78	22.0						
3.5	65	54.9	72	40.8	76	32.0	76	22.0						
4.0	62	53.8	70	40.8	75	32.0	75	22.0						
4.5	59	47.7	68	40.8	73	32.0	73	22.0	78	22.0	78	17.0		
5.0	56	42.8	66	40.8	72	32.0	72	22.0	77	21.3	77	17.0		
5.5	52	38.7	64	37.5	70	32.0	70	22.0	76	20.3	76	17.0		
6.0	48	35.3	61	34.6	68	31.9	68	22.0	75	19.4	75	17.0		
6.5	44	32.4	59	32.0	67	30.3	67	22.0	74	18.6	74	16.2	79	14.0
7.0	39	29.9	57	29.6	65	28.8	65	22.0	73	17.8	73	15.6	78	13.5
7.5	34	27.7	54	27.4	64	25.8	63	22.0	72	17.7	72	14.9	77	13.0
8.0	28	25.7	52	24.9	62	23.2	61	22.0	71	17.6	71	14.4	76	12.6
8.5	20	22.6	49	22.0	60	21.0	60	22.0	70	17.5	70	13.9	75	12.2
9.0			47	19.5	58	19.1	58	21.7	68	17.4	69	13.4	75	11.9
10.0			40	15.8	54	15.3	54	17.8	66	15.7	66	12.4	73	11.8
11.0			34	13.0	50	12.6	50	15.0	64	13.6	64	11.5	71	11.6
12.0			25	10.9	46	10.5	46	12.8	62	11.6	62	10.6	69	11.4
14.0					36	7.6	36	9.7	56	8.6	56	9.3	66	9.1
16.0					22	5.5	21	7.5	51	6.5	51	7.9	62	7.0
18.0									45	5.0	45	6.4	58	5.5
20.0									39	3.9	38	5.2	54	4.4
22.0									30	3.1	29	4.3	50	3.5
24.0									17	2.4	17	3.6	45	2.8
26.0													40	2.2
28.0													34	1.7
30.0													27	1.3
32.0													16	1.0
34.0														
36.0														
D														

Telescoping conditions(%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED 7.3m SPREAD 360° ROTATION (Unit: ×1000kg)														
C \ A	11.0m		15.0m		19.0m		27.0m		35.0m		39.0m			
	B		B		B		B		B		B		B	
0°	8.8	13.6	12.9	7.5	16.9	4.8	16.8	6.2	24.9	2.1	24.6	3.4	32.9	0.9
Telescoping Mode	I, II		I		I		II		I		II		II	

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

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Rated Lifting Capacities

ON OUTRIGGERS

ON OUTRIGGERS FULLY EXTENDED 7.3m SPREAD 360° ROTATION (Unit: ×1000kg)						
C	43.0m Boom + 10.1m Jib					
	3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W
80	10.1	4.2	13.4	3.5	15.7	2.9
79	11.0	4.2	14.4	3.3	16.6	2.9
78	12.2	4.2	15.2	3.2	17.5	2.8
77	13.1	4.1	16.3	3.1	18.3	2.7
76	14.0	3.9	17.1	3.0	19.2	2.7
75	14.9	3.8	18.1	3.0	20.1	2.6
73	16.8	3.5	20.0	2.8	21.7	2.5
70	19.5	3.2	22.6	2.6	24.1	2.3
68	21.3	3.0	24.2	2.5	25.7	2.3
65	23.9	2.8	26.6	2.3	27.9	2.2
63	25.5	2.7	28.2	2.3	29.4	2.1
60	27.8	2.2	30.3	1.9	31.3	1.8
58	29.3	1.9	31.6	1.6	32.6	1.5
55	31.2	1.4	33.6	1.3	34.4	1.2
53	32.6	1.2	34.9	1.1	35.5	1.0
50	34.5	0.9				

ON OUTRIGGERS FULLY EXTENDED 7.3m SPREAD 360° ROTATION (Unit: ×1000kg)						
C	43.0m Boom + 17.7m Jib					
	3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W
80	11.6	2.6	17.5	2.1	21.7	1.7
79	12.9	2.6	18.5	2.0	22.6	1.7
78	13.9	2.6	19.8	2.0	23.6	1.6
77	15.0	2.6	20.6	1.9	24.5	1.6
76	16.2	2.5	21.7	1.9	25.4	1.6
75	17.3	2.4	22.8	1.8	26.3	1.5
73	19.4	2.3	24.7	1.7	28.0	1.5
70	22.7	2.1	27.7	1.6	30.5	1.4
68	24.5	2.0	29.4	1.5	32.0	1.3
65	27.6	1.8	32.2	1.4	34.4	1.3
63	29.3	1.7	33.8	1.4	35.8	1.2
60	32.2	1.4	36.4	1.2	37.9	1.0
58	33.8	1.2	37.7	0.9		

ON OUTRIGGERS FULLY EXTENDED 7.3m SPREAD 360° ROTATION (Unit: ×1000kg)						
C	39.0m Boom(telescoping mode II) + 10.1m Jib					
	3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W
80	9.5	4.6	13.1	3.8	15.5	3.2
79	10.5	4.6	13.9	3.6	16.2	3.1
78	11.4	4.6	14.8	3.5	17.1	3.0
77	12.5	4.5	15.8	3.4	17.9	2.9
76	13.3	4.4	16.6	3.3	18.6	2.9
75	14.2	4.2	17.4	3.2	19.5	2.8
73	15.9	3.9	19.1	3.1	21.0	2.7
70	18.4	3.6	21.5	2.8	23.2	2.5
68	20.1	3.4	23.0	2.7	24.7	2.4
65	22.5	3.1	25.3	2.6	26.5	2.3
63	24.0	3.0	26.7	2.5	27.9	2.3
60	26.3	2.8	28.6	2.3	29.6	2.2
58	27.8	2.7	30.2	2.3	31.1	2.1
55	29.8	2.3	32.0	2.0	32.8	1.9
53	31.0	2.0	33.1	1.8	33.8	1.7
50	32.8	1.7	34.8	1.5	35.3	1.5
48	33.9	1.5	35.8	1.4	36.2	1.3
45	35.6	1.2	37.0	1.1	37.6	1.1
43	36.7	1.1	38.2	1.0		
40	38.1	0.9				

ON OUTRIGGERS FULLY EXTENDED 7.3m SPREAD 360° ROTATION (Unit: ×1000kg)						
C	39.0m Boom(telescoping mode II) + 17.7m Jib					
	3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W
80	10.9	2.8	17.2	2.3	21.1	1.8
79	12.0	2.8	18.2	2.2	21.9	1.8
78	13.1	2.8	19.0	2.1	22.8	1.7
77	14.4	2.8	20.0	2.1	23.7	1.7
76	15.3	2.7	20.9	2.0	24.4	1.7
75	16.4	2.7	21.9	1.9	25.4	1.6
73	18.3	2.5	23.7	1.8	26.9	1.6
70	21.3	2.3	26.3	1.7	29.2	1.5
68	23.1	2.2	28.1	1.6	30.7	1.4
65	26.0	2.0	30.7	1.5	32.9	1.4
63	27.8	1.9	32.4	1.5	34.4	1.3
60	30.1	1.8	34.4	1.4	36.3	1.3
58	32.1	1.7	36.2	1.4	37.6	1.3
55	34.4	1.5	38.3	1.3	39.7	1.2
53	35.8	1.3	39.6	1.1	40.6	1.0
50	37.9	1.1	41.4	0.9		
48	39.2	0.9				

ON OUTRIGGERS FULLY EXTENDED 7.3m SPREAD 360° ROTATION (Unit: ×1000kg)						
C	35m Boom(telescoping mode I) + 10.1m Jib					
	3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W
80	8.1	5.6	11.7	4.5	14.0	3.7
79	9.1	5.6	12.4	4.4	14.7	3.6
78	9.9	5.6	13.2	4.3	15.3	3.6
77	10.7	5.6	14.0	4.2	16.1	3.5
76	11.5	5.5	14.8	4.0	16.8	3.4
75	12.4	5.3	15.5	3.9	17.5	3.4
73	13.9	5.0	16.9	3.7	18.9	3.2
70	16.2	4.6	19.1	3.5	20.8	3.1
68	17.8	4.3	20.6	3.4	22.1	3.0
65	19.9	4.0	22.6	3.2	24.0	2.9
63	21.3	3.8	24.0	3.1	25.2	2.8
60	23.4	3.6	25.8	2.9	26.9	2.7
58	24.6	3.2	27.8	2.8	28.1	2.6
55	26.4	2.6	28.7	2.3	29.6	2.2
53	27.5	2.3	29.7	2.1	30.5	1.9
50	29.3	1.9	31.4	1.7	32.0	1.6
48	30.4	1.7	32.3	1.5	32.8	1.5
45	32.0	1.4	33.7	1.3	34.1	1.2
43	33.0	1.2	34.6	1.1		
40	34.5	1.0	35.9	0.9		
38	35.3	0.9				

ON OUTRIGGERS FULLY EXTENDED 7.3m SPREAD 360° ROTATION (Unit: ×1000kg)						
C	35m Boom(telescoping mode I) + 17.7m Jib					
	3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W
80	9.6	3.2	15.8	2.6	20.1	2.1
79	10.5	3.2	16.7	2.6	20.8	1.9
78	11.5	3.2	17.6	2.5	21.6	1.9
77	12.5	3.2	18.3	2.4	22.4	1.9
76	13.5	3.2	19.4	2.4	23.2	1.9
75	14.4	3.2	20.1	2.3	24.0	1.9
73	16.3	3.1	21.9	2.2	25.5	1.9
70	19.0	2.9	24.5	2.1	27.7	1.8
68	20.7	2.7	26.0	2.0	29.1	1.7
65	23.2	2.5	28.3	1.9	31.1	1.7
63	24.9	2.4	29.8	1.8	32.3	1.6
60	27.3	2.2	31.8	1.7	34.2	1.6
58	28.9	2.1	33.3	1.7	35.4	1.5
55	30.9	1.8	35.1	1.5	37.0	1.3
53	32.5	1.5	36.4	1.3	38.0	1.2
50	34.7	1.2	38.2	1.0	39.5	0.9
48	36.0	1.0	39.2	0.9		

C: boom angle (°)
R: Load radius(m)
W: Rated lifting capacity(Unit:×1,000kg)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

ON OUTRIGGERS

ON OUTRIGGERS MID EXTENDED 6.7m SPREAD 360° ROTATION (Unit: ×1000kg)																					
B	A	11.0m		15.0m		19.0m		27.0m		35.0m		39.0m		43.0m							
	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C						
3.0	68	59.6	75	40.8	78	32.0	78	22.0													
3.5	65	53.3	72	40.8	76	32.0	76	22.0													
4.0	62	48.0	70	40.8	75	32.0	75	22.0													
4.5	59	43.5	68	40.8	73	32.0	73	22.0	78	22.0	79	17.0									
5.0	56	39.7	66	39.5	71	32.0	71	22.0	77	21.3	77	17.0									
5.5	52	36.4	64	36.2	70	32.0	70	22.0	76	20.3	77	17.0									
6.0	48	33.5	62	33.3	68	31.8	68	22.0	75	19.4	75	17.0									
6.5	44	31.0	59	30.8	67	27.9	66	22.0	74	18.6	74	16.2	79	14.0	79	12.0					
7.0	40	28.8	57	27.4	65	24.8	65	22.0	73	17.8	73	15.6	78	13.5	78	11.7					
7.5	34	25.5	54	24.4	63	22.2	63	22.0	72	17.7	72	14.9	78	13.0	77	11.3					
8.0	28	22.3	52	21.6	61	20.0	61	22.0	71	17.6	71	14.4	76	12.6	77	10.9	78	10.0			
8.5	20	19.7	49	19.0	59	18.1	60	20.9	70	17.4	70	13.9	75	12.2	76	10.5	77	10.0			
9.0			47	17.0	58	16.5	58	19.1	68	16.0	69	13.4	74	11.9	75	10.2	76	10.0	79	9.0	
10.0			41	13.7	54	13.3	54	15.7	66	13.7	66	12.4	73	11.8	73	9.5	75	9.6	78	8.7	
11.0			34	11.3	50	11.0	50	13.2	64	11.9	64	11.5	71	11.5	71	8.9	74	9.1	76	8.3	
12.0			25	9.4	45	9.1	46	11.3	62	10.2	62	10.6	69	10.1	70	8.5	72	8.6	75	7.9	
14.0					38	6.5	36	8.6	56	7.5	57	8.9	66	8.0	66	7.7	69	7.9	72	7.4	
16.0					21	4.7	21	6.7	51	5.7	51	7.0	62	6.2	63	6.7	66	6.8	69	6.4	
18.0									45	4.4	45	5.7	58	4.8	59	5.8	62	5.4	66	5.1	
20.0									38	3.4	38	4.6	54	3.8	54	4.8	59	4.4	63	4.0	
22.0									30	2.6	29	3.8	49	3.0	50	3.9	55	3.6	59	3.2	
24.0									17	1.9	16	3.2	44	2.4	45	3.3	51	2.9	56	2.6	
26.0													40	1.8	40	2.8	47	2.4	52	2.0	
28.0													34	1.4	34	2.3	42	1.9	48	1.6	
30.0													27	1.0	27	1.9	37	1.5	44	1.2	
32.0													17	1.6	17	1.6	32	1.2	40	0.9	
34.0																	25	0.9			
D																					30°

Telescoping conditions(%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED 6.7m SPREAD 360° ROTATION (Unit: ×1000kg)																				
C	A	11.0m		15.0m		19.0m		27.0m		35.0m		39.0m								
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B					
0°	8.8	13.5	12.9	7.5	16.8	4.2	16.8	6.1	24.9	1.7	24.6	3.0	32.8	0.6	32.7	1.4	36.4	0.6		
Telescoping Mode	I, II	I	I	II	II	II	II	II	II	II	II	II								

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Rated Lifting Capacities

ON OUTRIGGERS

ON OUTRIGGERS MID EXTENDED 6.7m SPREAD 360° ROTATION (Unit: ×1000kg)							ON OUTRIGGERS MID EXTENDED 6.7m SPREAD 360° ROTATION (Unit: ×1000kg)					
C	43.0m Boom + 10.1m Jib						43.0m Boom + 17.7m Jib					
	3.5°Tilt		25°Tilt		45°Tilt		3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W	R	W	R	W	R	W
80	9.9	4.2	13.4	3.5	15.8	2.9	11.5	2.6	17.9	2.1	21.9	1.7
79	11.0	4.2	14.3	3.3	16.7	2.9	12.7	2.6	18.6	2.0	22.8	1.7
78	12.1	4.2	15.3	3.2	17.6	2.8	14.0	2.6	19.8	2.0	23.7	1.6
77	13.1	4.1	16.3	3.1	18.4	2.7	15.1	2.6	20.7	1.9	24.5	1.6
76	14.0	3.9	17.2	3.0	19.4	2.7	16.2	2.5	21.7	1.9	25.4	1.6
75	15.0	3.8	18.2	3.0	20.0	2.6	17.3	2.4	22.8	1.8	26.3	1.5
73	16.8	3.5	19.9	2.8	21.9	2.5	19.4	2.3	24.7	1.7	27.9	1.5
70	19.5	3.2	22.6	2.6	24.1	2.3	22.6	2.1	27.6	1.6	30.4	1.4
68	21.2	3.0	24.2	2.5	25.7	2.3	24.7	2.0	29.5	1.5	32.1	1.3
65	23.8	2.8	26.6	2.3	28.0	2.2	27.5	1.8	32.1	1.4	34.2	1.3
63	25.4	2.4	28.0	2.0	29.3	1.9	29.1	1.5	33.7	1.2	35.7	1.1
60	27.4	1.8	30.0	1.6	31.1	1.5	31.7	1.1	36.1	0.9		
58	29.1	1.5	31.5	1.3	32.5	1.2	33.4	0.9				
55	31.2	1.1	33.5	1.0	34.3	0.9						
53	32.6	0.9										

ON OUTRIGGERS MID EXTENDED 6.7m SPREAD 360° ROTATION (Unit: ×1000kg)							ON OUTRIGGERS MID EXTENDED 6.7m SPREAD 360° ROTATION (Unit: ×1000kg)					
C	39.0m Boom(telescoping mode II) + 10.1m Jib						39.0m Boom(telescoping mode II) + 17.7m Jib					
	3.5°Tilt		25°Tilt		45°Tilt		3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W	R	W	R	W	R	W
80	9.5	4.6	13.0	3.8	15.4	3.2	11.0	2.8	17.1	2.3	21.1	1.8
79	10.5	4.6	13.8	3.6	16.1	3.1	12.1	2.8	17.9	2.2	22.0	1.8
78	11.4	4.6	14.7	3.5	17.0	3.0	13.2	2.8	19.0	2.1	22.8	1.7
77	12.4	4.5	15.6	3.4	17.9	2.9	14.3	2.8	19.9	2.1	23.6	1.7
76	13.4	4.4	16.6	3.3	18.8	2.9	15.5	2.7	21.0	2.0	24.5	1.7
75	14.2	4.2	17.4	3.2	19.5	2.8	16.4	2.7	21.9	1.9	25.3	1.6
73	16.0	3.9	19.1	3.1	20.9	2.7	18.4	2.5	23.8	1.8	27.0	1.6
70	18.5	3.6	21.4	2.8	23.1	2.5	21.4	2.3	26.4	1.7	29.2	1.5
68	20.1	3.4	23.1	2.7	24.4	2.4	23.2	2.2	28.1	1.6	30.7	1.4
65	22.5	3.1	25.2	2.6	26.6	2.3	26.0	2.0	30.5	1.5	32.8	1.4
63	24.0	3.0	26.8	2.5	27.8	2.3	27.8	1.9	32.3	1.5	34.2	1.3
60	26.3	2.7	28.9	2.3	29.7	2.2	30.3	1.8	34.7	1.4	36.4	1.3
58	27.5	2.4	29.9	2.1	30.9	2.0	31.8	1.6	36.1	1.3	37.7	1.2
55	29.5	1.9	31.8	1.7	32.6	1.6	34.1	1.3	38.1	1.0	39.4	0.9
53	30.8	1.7	32.9	1.5	33.7	1.4	35.5	1.1				
50	32.6	1.4	34.6	1.2	35.2	1.2						
48	33.7	1.2	35.7	1.1	36.1	1.0						
45	35.4	1.0										

ON OUTRIGGERS MID EXTENDED 6.7m SPREAD 360° ROTATION (Unit: ×1000kg)							ON OUTRIGGERS MID EXTENDED 6.7m SPREAD 360° ROTATION (Unit: ×1000kg)					
C	35m Boom(telescoping mode I) + 10.1m Jib						35m Boom(telescoping mode I) + 17.7m Jib					
	3.5°Tilt		25°Tilt		45°Tilt		3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W	R	W	R	W	R	W
80	8.2	5.6	11.6	4.5	13.9	3.7	9.6	3.2	15.8	2.6	20.0	2.1
79	9.0	5.6	12.4	4.4	14.7	3.6	10.6	3.2	16.7	2.6	20.8	1.9
78	9.9	5.6	13.3	4.3	15.6	3.6	11.6	3.2	17.5	2.5	21.6	1.9
77	10.8	5.6	14.1	4.2	16.2	3.5	12.5	3.2	18.5	2.4	22.3	1.9
76	11.6	5.5	14.8	4.0	16.8	3.4	13.5	3.2	19.4	2.4	23.1	1.9
75	12.4	5.3	15.5	3.9	17.6	3.4	14.4	3.2	20.2	2.3	23.9	1.9
73	14.0	5.0	17.2	3.7	19.0	3.2	16.3	3.1	22.1	2.2	25.6	1.9
70	16.2	4.6	19.2	3.5	20.9	3.1	19.1	2.9	24.4	2.1	27.7	1.8
68	17.8	4.3	20.6	3.4	22.2	3.0	20.7	2.7	26.0	2.0	29.1	1.7
65	20.0	4.0	22.7	3.2	24.1	2.9	23.3	2.5	28.2	1.9	31.1	1.7
63	21.4	3.8	24.0	3.1	25.2	2.8	25.0	2.4	29.8	1.8	32.3	1.6
60	23.3	3.1	25.9	2.7	26.9	2.5	27.3	2.2	31.8	1.7	34.1	1.5
58	24.5	2.7	26.9	2.4	27.9	2.2	28.9	1.8	33.1	1.5	35.3	1.3
55	26.2	2.2	28.6	2.0	29.5	1.8	31.2	1.5	35.1	1.2	37.0	1.1
53	27.5	1.9	29.7	1.7	30.4	1.6	32.6	1.2	36.3	1.0	38.0	0.9
50	29.2	1.6	31.2	1.4	31.9	1.3	34.7	1.0				
48	30.3	1.4	32.3	1.2	32.8	1.2						
45	32.0	1.1	33.7	1.0	34.1	0.9						
43	33.0	0.9										

C: Loaded boom angle (°)
R: Load radius(m)
W: Rated lifting capacity(Unit:×1,000kg)

Crawler Crane

55t
7055

80t
CKS800

90t
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135t
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180t
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CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

ON OUTRIGGERS

ON OUTRIGGERS MID EXTENDED 5.5m SPREAD 360° ROTATION (Unit: ×1000kg)														
B	A	11.0m		15.0m		19.0m		27.0m		35.0m		39.0m		43.0m
		C		C		C		C		C		C		C
3.0		68	55.6	74	40.8	78	32.0	78	22.0					
3.5		65	49.4	72	40.8	76	32.0	76	22.0					
4.0		62	44.3	70	40.8	75	32.0	75	22.0					
4.5		59	40.0	68	39.5	73	32.0	73	22.0	78	22.0	79	17.0	
5.0		56	36.3	66	33.2	72	29.6	71	22.0	77	21.3	77	17.0	
5.5		52	32.7	64	28.5	70	25.5	70	22.0	76	20.3	76	17.0	
6.0		48	28.4	62	24.9	69	22.4	68	22.0	75	19.4	75	17.0	
6.5		44	24.2	59	21.9	67	19.8	66	22.0	74	18.5	74	16.2	79
7.0		40	20.8	57	19.5	65	17.7	65	20.4	73	16.8	73	15.6	78
7.5		34	18.1	54	17.5	63	15.9	63	18.5	72	15.2	72	14.9	77
8.0		28	16.0	52	15.5	62	14.3	61	16.9	71	13.9	71	14.4	76
8.5		20	14.2	50	13.7	60	13.0	59	15.5	70	12.8	70	13.9	75
9.0				47	12.3	58	11.8	58	14.2	68	11.7	69	13.4	74
10.0				40	9.9	54	9.6	54	11.8	66	10.0	66	11.6	73
11.0				33	8.1	50	7.8	50	10.0	64	8.6	64	10.2	71
12.0				24	6.7	46	6.5	45	8.5	61	7.5	61	8.9	69
14.0						36	4.4	35	6.4	56	5.4	56	6.8	66
16.0						22	3.0	21	4.9	51	4.0	51	5.3	62
18.0										45	2.9	45	4.2	58
20.0										38	2.1	37	3.3	54
22.0										30	1.5	29	2.7	49
24.0										18	0.9	15	2.1	45
26.0														39
28.0														34
30.0														27
32.0														16
D														

Telescoping conditions(%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED 5.5m SPREAD 360° ROTATION (Unit: ×1000kg)														
C	A	11.0m		15.0m		19.0m		27.0m		35.0m				
		B		B		B		B		B		B		B
0°		8.8	12.5	12.9	5.6	16.9	2.5	16.8	4.5	24.9	0.7	24.5	2.0	
Telescoping Mode		I, II		I		I		II		I		II		

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Rated Lifting Capacities

ON OUTRIGGERS

ON OUTRIGGERS MID EXTENDED 5.5m SPREAD 360° ROTATION (Unit: ×1000kg)							ON OUTRIGGERS MID EXTENDED 5.5m SPREAD 360° ROTATION (Unit: ×1000kg)					
C	43.0m Boom + 10.1m Jib						43.0m Boom + 17.7m Jib					
	3.5°Tilt		25°Tilt		45°Tilt		3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W	R	W	R	W	R	W
80	9.9	4.2	13.2	3.5	15.7	2.9	11.5	2.6	17.9	2.1	22.0	1.7
79	10.9	4.2	14.3	3.3	16.5	2.9	12.6	2.6	18.4	2.0	22.5	1.7
78	12.1	4.2	15.4	3.2	17.7	2.8	13.8	2.6	19.8	2.0	23.6	1.6
77	13.1	4.1	16.3	3.1	18.4	2.7	14.9	2.6	20.7	1.9	24.4	1.6
76	14.0	3.9	17.2	3.0	19.4	2.7	16.2	2.5	21.7	1.9	25.4	1.6
75	15.0	3.8	18.2	3.0	20.1	2.6	17.3	2.4	22.8	1.8	26.4	1.5
73	16.7	3.5	19.9	2.8	21.8	2.5	19.5	2.3	24.8	1.7	28.0	1.5
70	19.3	2.8	22.3	2.4	24.1	2.2	22.3	1.8	27.4	1.4	30.3	1.3
68	20.9	2.3	23.9	2.0	25.5	1.9	24.0	1.4	29.1	1.1	31.8	1.0
65	23.2	1.7	26.1	1.5	27.6	1.4	26.9	1.0				
63	24.7	1.4	27.5	1.2	28.9	1.1						
60	27.0	1.0										

ON OUTRIGGERS MID EXTENDED 5.5m SPREAD 360° ROTATION (Unit: ×1000kg)							ON OUTRIGGERS MID EXTENDED 5.5m SPREAD 360° ROTATION (Unit: ×1000kg)					
C	39.0m Boom(telescoping mode II) + 10.1m Jib						39.0m Boom(telescoping mode II) + 17.7m Jib					
	3.5°Tilt		25°Tilt		45°Tilt		3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W	R	W	R	W	R	W
80	9.6	4.6	13.1	3.8	15.5	3.2	11.0	2.8	17.1	2.3	21.1	1.8
79	10.5	4.6	13.8	3.6	16.1	3.1	12.1	2.8	18.1	2.2	22.0	1.8
78	11.4	4.6	14.7	3.5	17.0	3.0	13.2	2.8	18.9	2.1	22.6	1.7
77	12.4	4.5	15.6	3.4	17.8	2.9	14.3	2.8	20.0	2.1	23.6	1.7
76	13.4	4.4	16.6	3.3	18.7	2.9	15.3	2.7	20.8	2.0	24.5	1.7
75	14.2	4.2	17.4	3.2	19.4	2.8	16.4	2.7	21.8	1.9	25.3	1.6
73	15.9	3.9	19.1	3.1	21.0	2.7	18.4	2.5	23.7	1.8	26.9	1.6
70	18.5	3.6	21.4	2.8	23.1	2.5	21.2	2.3	26.4	1.7	29.2	1.5
68	20.1	3.4	22.9	2.7	24.5	2.4	23.2	2.2	28.2	1.6	30.7	1.4
65	22.5	2.8	25.2	2.3	26.4	2.1	25.8	1.8	30.5	1.4	32.6	1.2
63	24.1	2.3	26.8	2.0	27.8	1.8	27.8	1.5	32.4	1.2	34.2	1.0
60	25.8	1.8	28.4	1.6	29.5	1.4	29.9	1.1				
58	27.2	1.5	29.6	1.3	30.7	1.2	31.4	0.9				
55	29.2	1.2	31.4	1.0	32.4	0.9						
53	30.5	1.0										

ON OUTRIGGERS MID EXTENDED 5.5m SPREAD 360° ROTATION (Unit: ×1000kg)							ON OUTRIGGERS MID EXTENDED 5.5m SPREAD 360° ROTATION (Unit: ×1000kg)					
C	35m Boom(telescoping mode I) + 10.1m Jib						35m Boom(telescoping mode I) + 17.7m Jib					
	3.5°Tilt		25°Tilt		45°Tilt		3.5°Tilt		25°Tilt		45°Tilt	
	R	W	R	W	R	W	R	W	R	W	R	W
80	8.2	5.6	11.7	4.5	14.1	3.7	9.6	3.2	15.9	2.6	20.1	2.1
79	9.0	5.6	12.4	4.4	14.7	3.6	10.6	3.2	16.6	2.6	20.8	1.9
78	9.9	5.6	13.2	4.3	15.5	3.6	11.6	3.2	17.7	2.5	21.7	1.9
77	10.7	5.6	14.0	4.2	16.1	3.5	12.4	3.2	18.4	2.4	22.3	1.9
76	11.6	5.5	14.8	4.0	16.8	3.4	13.5	3.2	19.3	2.4	23.2	1.9
75	12.4	5.3	15.5	3.9	17.5	3.4	14.4	3.2	20.2	2.3	24.0	1.9
73	14.0	5.0	17.0	3.7	18.9	3.2	16.2	3.1	22.0	2.2	25.6	1.9
70	16.3	4.6	19.2	3.5	20.0	3.1	19.0	2.9	24.0	2.1	27.6	1.8
68	17.7	3.9	20.6	3.3	22.2	3.0	20.6	2.7	25.9	2.0	29.0	1.7
65	19.7	3.1	22.4	2.6	23.8	2.4	23.3	2.2	28.1	1.6	31.0	1.4
63	21.0	2.7	23.7	2.3	25.0	2.1	24.9	1.8	29.5	1.4	32.3	1.2
60	22.9	2.1	25.5	1.8	26.7	1.6	27.3	1.3	31.5	1.0		
58	24.2	1.7	26.6	1.5	27.7	1.4	28.7	1.1				
55	26.0	1.3	28.4	1.2	29.3	1.1						
53	29.2	1.1	29.5	1.0								

C: Loaded boom angle (°)
R: Load radius(m)
W: Rated lifting capacity(Unit:×1,000kg)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

ON OUTRIGGERS

ON OUTRIGGERS MIN EXTENDED 2.7m SPREAD 360° ROTATION (Unit: ×1000kg)																					
B	A	11.0m		15.0m		19.0m		27.0m		35.0m		39.0m		43.0m							
		C		C		C		C		C		C		C							
3.0		68	26.3	74	22.3	78	19.3	78	22.0												
3.5		65	21.4	72	18.3	76	16.0	76	18.7												
4.0		62	17.8	70	15.4	75	13.5	75	16.1												
4.5		59	15.0	68	13.1	73	11.5	73	14.0	78	10.9	78	12.5								
5.0		55	12.9	66	11.3	72	9.9	71	12.3	77	9.5	77	11.1								
5.5		52	11.2	64	9.8	70	8.6	69	10.9	76	8.4	76	10.0								
6.0		48	9.8	61	8.5	68	7.5	68	9.8	75	7.5	75	9.0								
6.5		44	8.6	59	7.4	67	6.6	66	8.8	74	6.7	74	8.2	78	6.4	79	7.5				
7.0		40	7.6	57	6.5	65	5.7	64	7.9	73	6.0	72	7.4	77	5.8	78	6.9				
7.5		34	6.6	55	5.7	63	5.0	63	7.1	71	5.3	71	6.8	76	5.2	77	6.3				
8.0		28	5.7	52	5.0	61	4.3	61	6.5	70	4.8	70	6.2	75	4.7	76	5.8	77	5.1		
8.5		19	5.0	49	4.4	59	3.8	59	5.9	69	4.3	69	5.7	75	4.3	75	5.4	77	4.7		
9.0				47	3.9	58	3.3	57	5.3	68	3.8	68	5.3	74	3.9	74	5.0	76	4.3	78	3.8
10.0				41	2.9	54	2.4	53	4.4	66	3.1	65	4.5	72	3.2	72	4.3	74	3.7	76	3.2
11.0				33	2.2	49	1.7	49	3.7	63	2.4	63	3.8	70	2.6	71	3.7	73	3.1	75	2.6
12.0				25	1.5	45	1.1	45	3.1	61	1.9	60	3.2	69	2.1	69	3.2	71	2.6	73	2.2
14.0								35	2.0	56	1.0	55	2.3	65	1.3	65	2.3	68	1.8	70	1.4
16.0								20	1.3			49	1.6			62	1.7	64	1.2		
18.0												38	1.1			58	1.2				
D																					
			0°			21°		0°		44°		27°		57°		49°		57°		64°	

Telescoping conditions(%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MIN EXTENDED 2.7m SPREAD 360° ROTATION (Unit: ×1000kg)															
C	A	11.0m		15.0m		19.0m		27.0m		35.0m		39.0m		43.0m	
		B		B		B		B		B		B		B	
0°		8.7	4.5	12.9	0.9			16.7	1.1						
Telescoping Mode		I, II		I				II							

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

NOTES FOR "ON OUTRIGGERS" TABLE

- Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface. Those above thick lines are based on crane strength and those below, on its stability.
- Rated lifting capacities based on crane stability are according to ISO4305.
- The mass of the hook (540 kg for 60 t capacity, 450 kg for 35 t capacity, 150 kg for 5.6 t capacity), slings and all similarly used load handling devices must be considered as part of the load and must be deducted from the lifting capacities.
- For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to a weight reduction for auxiliary load handling equipment. Capacities of single top shall not exceed 5,600 kg including main boom hook mass and the net capacity must be so reduced.
- Standard number of parts of line for each boom length is as shown below. Load per line should not surpass 54.9 kN {5,600 kgf} for main winch and auxiliary winch.

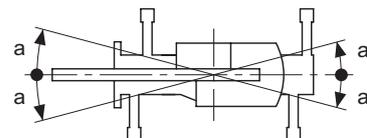
Boom length	11.0m	11.0m to 15.0m	15.0m to 19.0m	19.0m to 43.0m	Single top Jib
Telescoping mode	I, II	I II	I, II	I, II	I, II
Number of parts of line	12	8 6	6	4	1

The lifting capacity data stored in the Automatic Moment Limiter (AML) is based on the standard number of parts of line listed in the chart.

Maximum lifting capacity is restricted by the number of parts of line of Automatic Moment Limiter (AML).

- The lifting capacity for over-side area differs depending on the outrigger extension width. Work with the capacity corresponding to the extension width. The lifting capacities for over-front and over-rear areas are for "outriggers fully extended". However, the areas (angle a) differ depending on the outrigger extension width.

Outriggers extended width	6.7m(middle)	5.5m(middle)	2.7m(minimum)
Angle a°	60	40	15



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Rated Lifting Capacities

ON RUBBER (ON TIRES)

ON RUBBER STATIONARY (Unit: ×1000kg)												
B	A	Over Front						360° Rotation				
		11.0m		19.0m		27.0m		11.0m		19.0m		27.0m
		c		c		c		c		c		c
3.0	68	29.5				68	18.6					
3.5	65	27.8				65	14.8					
4.0	62	25.5	75	15.9		62	12.5	75	10.0			
4.5	59	23.0	73	15.9		59	10.6	73	10.0			
5.0	55	20.7	71	15.9		55	9.1	71	9.0			
5.5	52	18.2	70	15.9		52	7.7	70	7.8			
6.0	48	15.7	68	15.9	75	10.0	49	6.6	68	6.6	75	7.5
6.5	44	14.0	66	14.5	74	10.0	44	5.6	66	5.8	74	6.5
7.0	40	12.5	65	13.0	73	10.0	39	4.8	65	5.1	73	5.5
7.5	34	11.0	63	11.6	72	10.0	34	4.2	63	4.5	72	4.7
8.0	28	9.8	61	10.5	71	9.7	29	3.6	61	4.0	71	4.2
8.5	20	8.5	59	9.4	70	9.2	20	3.1	59	3.5	70	3.8
9.0			58	8.4	69	8.8			58	3.0	68	3.3
10.0			54	7.0	66	7.6			54	2.4	66	2.7
11.0			50	6.0	64	6.5			50	1.8	64	2.1
12.0			46	5.1	61	5.5			46	1.3	61	1.7
14.0			36	3.4	56	4.1					56	0.9
16.0			22	2.4	51	3.0						
18.0					45	2.3						
20.0					38	1.5						
22.0					30	1.0						
D												
			0°			18°		0°		21°		45°

Telescoping conditions(%)

Telescoping Mode	I, II	II	II	I, II	II	II
2nd boom	0	0	0	0	0	0
3rd boom	0	33	66	0	33	66
4th boom	0	33	66	0	33	66
Top boom	0	33	66	0	33	66

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER STATIONARY

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER STATIONARY												
B	A	Over Front						360° Rotation				
		11.0m		19.0m		27.0m		11.0m		19.0m		27.0m
		B		B		B		B		B		B
0		8.8	8.0	16.9	2.1			8.8	2.8			

ON RUBBER CREEP (Unit: ×1000kg)

ON RUBBER CREEP (Unit: ×1000kg)												
B	A	Over Front						360° Rotation				
		11.0m		19.0m		27.0m		11.0m		19.0m		27.0m
		c		c		c		c		c		c
3.0	68	22.7				68	15.0					
3.5	65	20.2				65	13.0					
4.0	62	18.2	74	15.9		62	11.2	74	10.0			
4.5	59	16.5	73	15.9		59	9.5	73	9.8			
5.0	55	15.1	72	15.0		56	8.2	71	8.4			
5.5	52	13.6	70	13.9		52	7.0	70	7.2			
6.0	48	12.4	68	12.8	75	10.0	48	5.9	68	6.2	75	6.7
6.5	44	11.4	66	11.9	74	10.0	44	5.0	66	5.4	74	5.9
7.0	39	10.5	65	11.0	73	10.0	40	4.3	65	4.7	73	5.2
7.5	34	9.5	63	10.1	72	10.0	35	3.7	63	4.1	72	4.6
8.0	28	8.5	61	9.0	71	9.3	28	3.1	61	3.6	71	4.1
8.5	20	7.6	59	8.0	70	8.6	20	2.5	60	3.1	70	3.6
9.0			58	7.3	69	8.0			58	2.7	68	3.2
10.0			54	6.0	66	6.8			54	2.0	66	2.6
11.0			50	5.1	64	5.8			50	1.5	64	2.0
12.0			45	4.2	61	4.9			46	1.1	61	1.5
14.0			36	2.9	56	3.6						
16.0			21	1.8	51	2.6						
18.0					45	1.9						
20.0					38	1.3						
D												
			0°			18°		0°		21°		50°

Telescoping conditions(%)

Telescoping Mode	I, II	II	II	I, II	II	II
2nd boom	0	0	0	0	0	0
3rd boom	0	33	66	0	33	66
4th boom	0	33	66	0	33	66
Top boom	0	33	66	0	33	66

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER STATIONARY

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON RUBBER STATIONARY												
B	A	Over Front						360° Rotation				
		11.0m		19.0m		27.0m		11.0m		19.0m		27.0m
		B		B		B		B		B		B
0		8.8	7.3	16.9	1.5			8.8	2.3			

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

NOTES FOR "ON RUBBER" TABLES

- Rated lifting capacities shown in the table are based on condition that crane is set on firm level surface, with suspension lock applied. Those above thick lines are based on tire capacity and those below, on crane stability. They are based on actual load radius increased by tire deformation and boom deflection.
- Rated lifting capacities based on crane stability are according to ISO4305.
- The mass of the hook (540 kg for 60t capacity, 450 kg for 35t capacity, 150 kg for 5.6t capacity), slings and all similarly used load handling devices must be considered as part of the load and must be deducted from the lifting capacities.
- For rated lifting capacity of single top, reduce the rated lifting capacities of relevant boom according to weight reductions for auxiliary load handling equipment. Capacities of single top shall not exceed 5,600 kg including main hook.
- On rubber lifting with "jib" is not permitted. Maximum permissible boom length is 27.0 m.
- CREEP is motion for crane not to travel more than 60 m in any 30 minute period and to travel at the speed of less than 1.6 km/h.
- During "CREEP" duties travel slowly and keep the lifting load as close to the ground as possible, and especially avoid any abrupt steering, accelerating or braking.
- Do not operate the crane while carrying the load.
- Tires should be inflated to their correct air pressure.

Tires	Air pressure
29.5-25 22PR	420 kPa
29.5-25 28PR	450 kPa

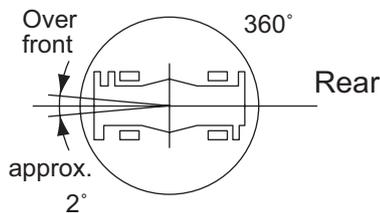
- For CREEP operation, choose the drive mode and proper gear according to the road or working condition.
- Standard number of parts of line for on rubber operation should be according to the following table.
Load per line should not surpass 54.9 kN {5,600 kgf} for main winch and auxiliary winch.

Boom length	11.0m	11.0m to 27.0m	Single top
Telescoping mode	I, II	II	I, II
Number of parts of line	6	4	1

The lifting capacity data stored in the Automatic Moment Limiter (AML) is based on the standard number of parts of line listed in the chart.

Maximum lifting capacity is restricted by the number of parts of line of Automatic Moment Limiter (AML).

WORKING AREA



Without outriggers "Over front" operation should be performed within 2 degrees in front of chassis.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

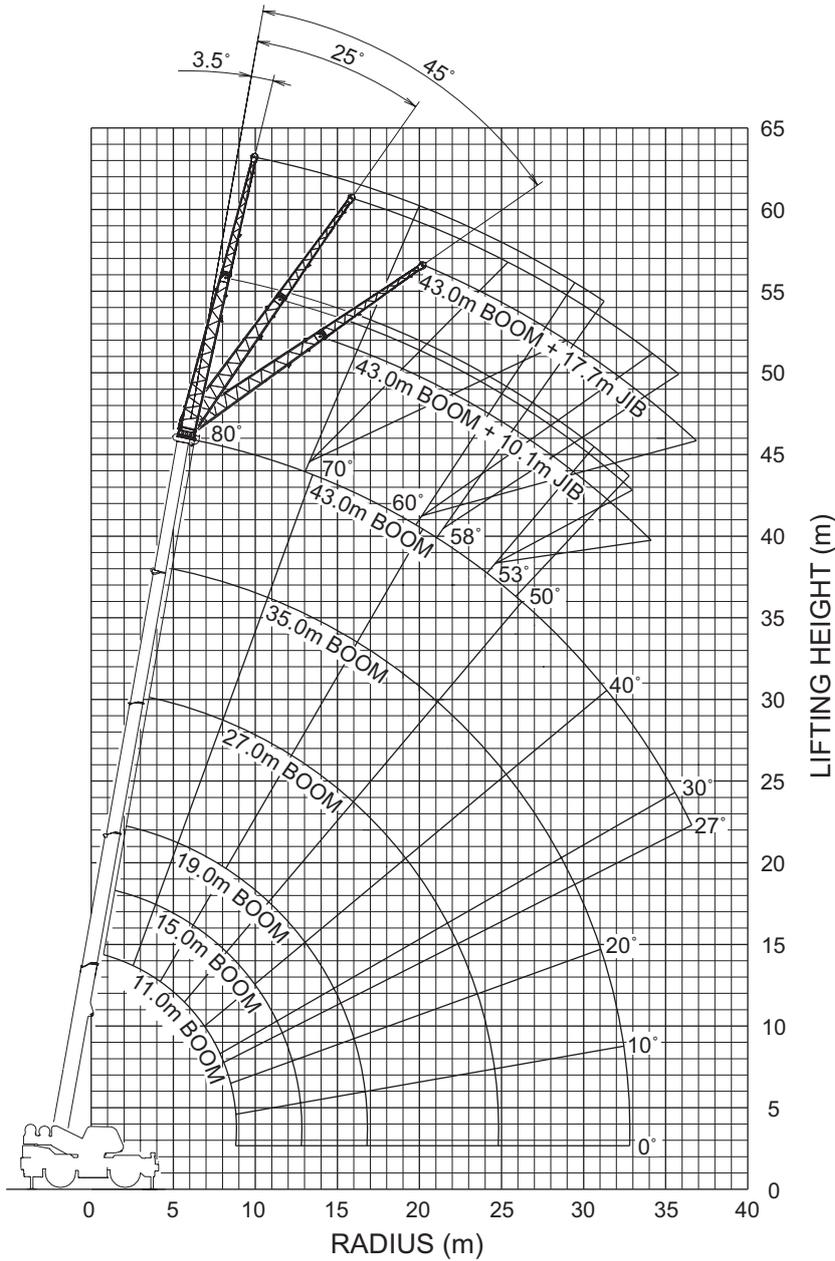
Excavator

Bull Dozer

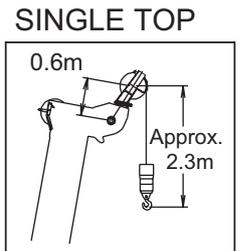
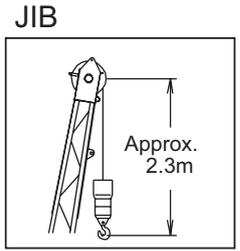
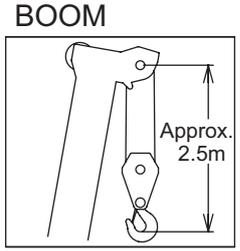
Vibro Roller
Baby Roller

Motor Grader

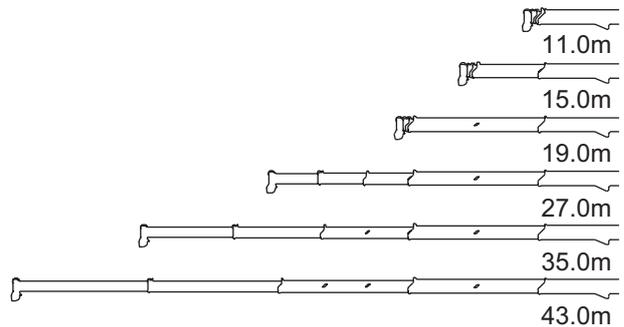
Working Range



Telescoping mode I



Boom Length



NOTE: The above lifting height and boom angle are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions. The above working range is shown on condition with outriggers fully (7.3m) extended.

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL

- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

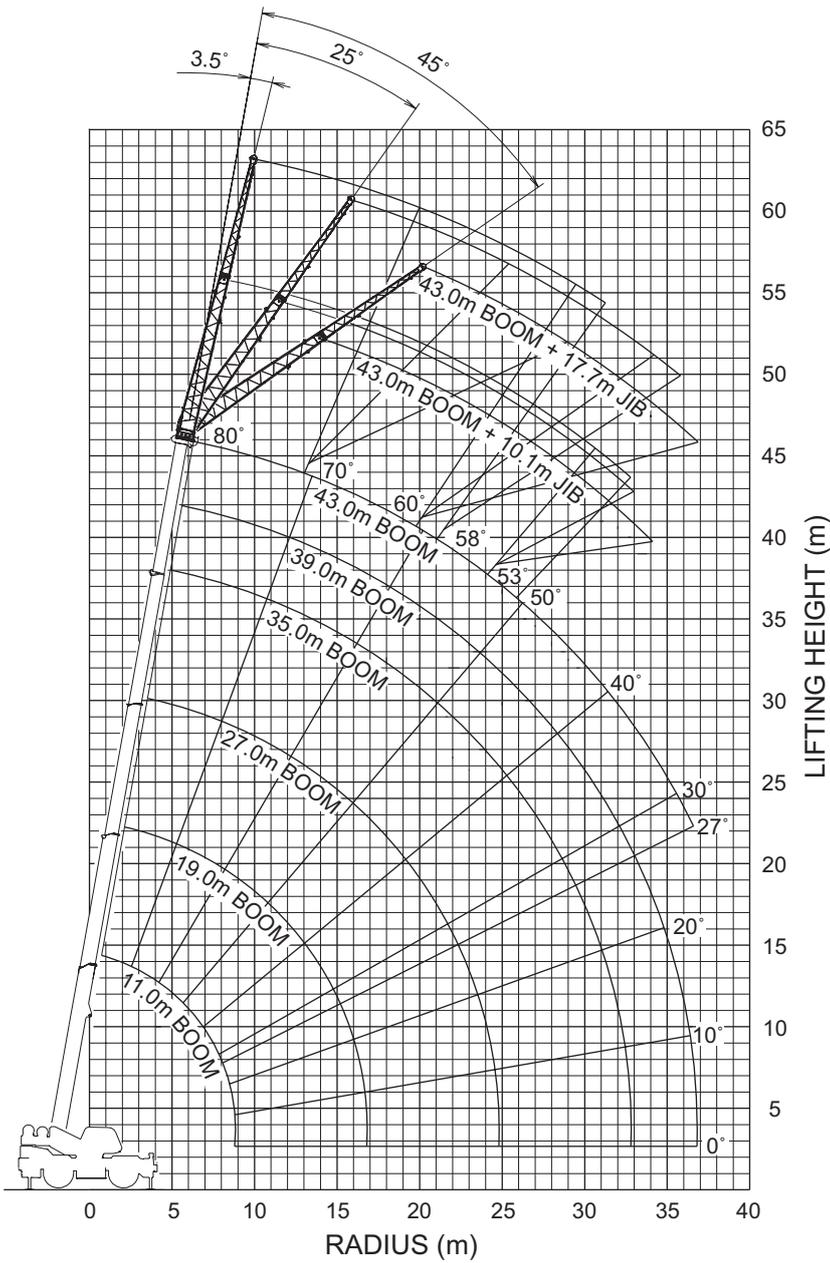
Aerial Platform

- Boom Lift
- Scissors Lift

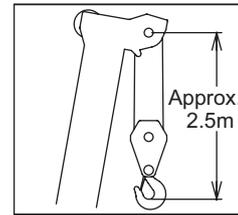
Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

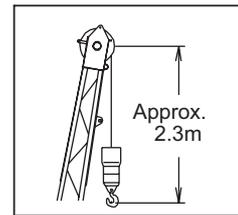
Telescoping mode II



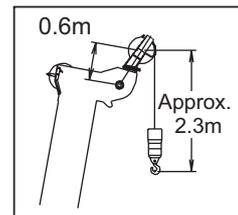
BOOM



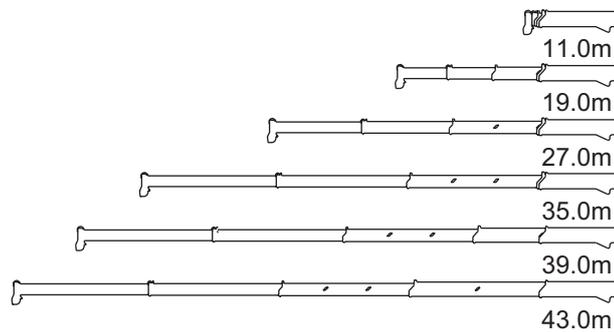
JIB



SINGLE TOP



Boom Length



NOTE: The above lifting height and boom angle are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions. The above working range is shown on condition with outriggers fully (7.3m) extended.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

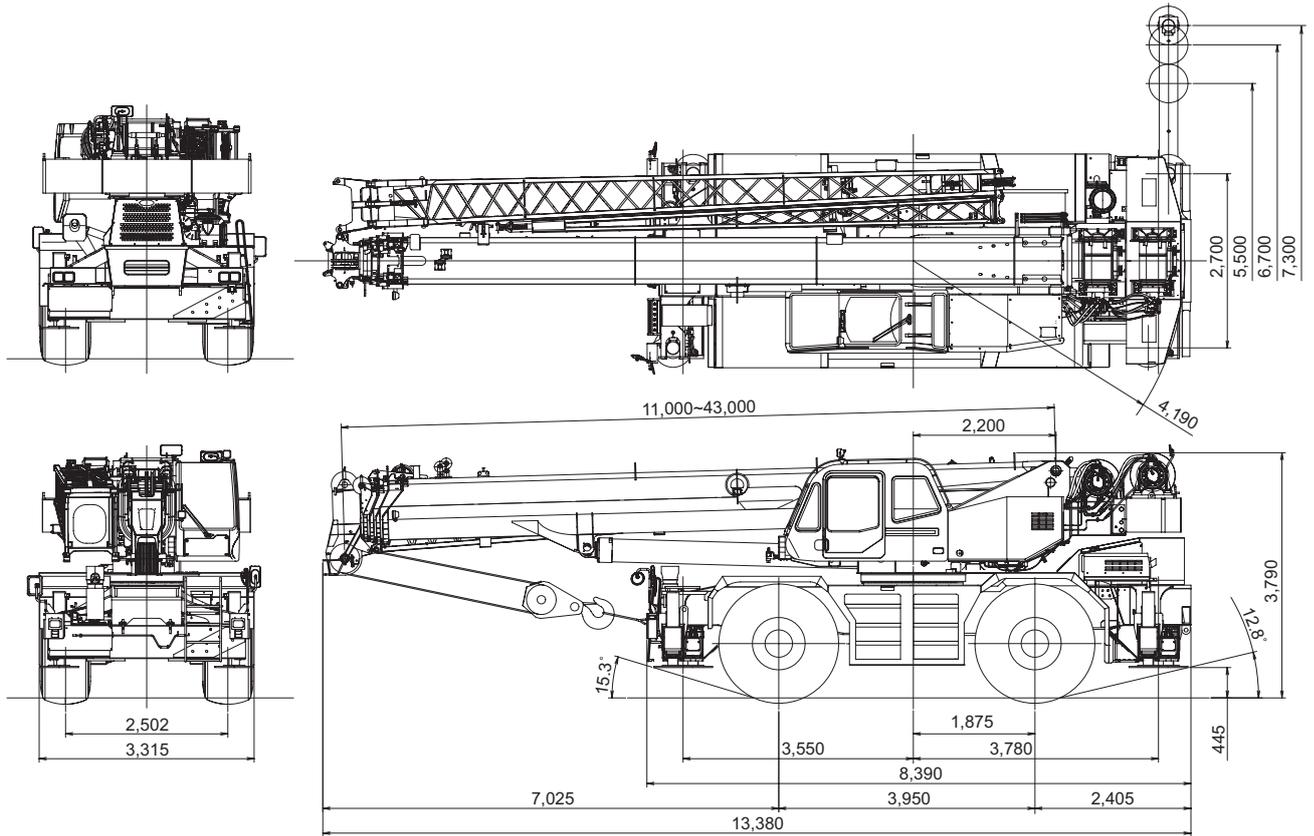
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Dimensions



Note: Dimension is with boom angle at -1.6 degree.

Crawler Crane

55t
7055

80t
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CKE1800

250t
CKE2500-2

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All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Axle Weight Distribution Chart

Unit : kg

	GVW	Front	Rear
Basic standard machine includes: 5-section boom (11.0 m - 43.0 m) 2-stage jib (10.1 m, 17.7 m) Mitsubishi 6M60-TL 29.5-25 22PR tires Single top 5.6 ton hook block	43,735	21,555	22,180
Add: 1. 60 ton 6 sheaves hook block 2. 35 ton 3 sheaves hook block	+540 +450	+960 +800	-420 -350
Remove: 1. 5.6 ton hook block 2. Top jib 3. Base jib 4. Counter weight with auxiliary winch and wire rope	-150 -335 -865 -5,670	-215 -365 -1,480 +2,500	+65 +30 +615 -8170

Rough Terrain Crane 80t GR-800EX

Manual PDF

Rough Terrain Crane
80t GR-800EX
(TADANO)



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55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

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GR-250N-2

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GR-300EX

50t
GR-500EXL

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GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Specifications

CRANE SPECIFICATIONS

BOOM

5 section full power partially synchronized telescoping boom of round box construction with 6 sheaves at boom head. The synchronization system consists of 2 telescope cylinder, extension cables and retraction cables. Hydraulic cylinder fitted with holding valve. 2 easily removable wire rope guards, rope dead end provided on both sides of boom head. Boom telescope sections are supported by wear pads both vertically and horizontally.

Fully retracted length.....	12.0 m
Fully extended length.....	47.0 m
Extension speed.....	35.0 m in 160 s
Root diameter.....	0.44 m

BOOM ELEVATION

By a double acting hydraulic cylinder with holding valve. Combination controls for hand or foot operation. Boom angle indicator.

Automatic speed reduction and slow stop function.

Boom angle	-1.5°– 80.5°
Boom raising speed	20° to 60° in 46 s

JIB

2 stage swing around boom extension swing around type with triple offset (tilt type). Single sheave at jib head.

Stows alongside base boom section.

Length	10.1 m, 17.7 m
Offset.....	3.5°, 25°, 45°
Root diameter.....	0.396 m

AUXILIARY LIFTING SHEAVE (SINGLE TOP)

Single sheave mounted to main boom head for single line work(stowable).

Root diameter.....	0.396 m
--------------------	---------

ANTI-TWO-BLOCK DEVICE

Pendant type over-winding cut out device with audio-visual (FAILURE lamp/BUZZER) warning system.

SLEWING

Hydraulic axial piston motor driven through planetary slewing speed reducer. Continuous 360° full circle slewing on ball bearing.

Equipped with manually locked/released slewing brake.

A positive slewing lock for pick and carry and travel modes, manually engaged in cab. Twin slewing system : Free slewing or lock slewing controlled by selector switch on front console.

Slewing speed.....	1.5 min ⁻¹ {rpm}
--------------------	-----------------------------

WINCH

MAIN WINCH

Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising.

Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of auxiliary winch. Equipped with cable follower and drum rotation indicator.

MAIN DRUM

Root diameter x wide	0.362 m x 0.6 m
Wire rope diameter x length	19 mm x 253 m
Drum capacity	304 m, 7 layers
Maximum single line pull (1st layer).....	89.1 kN (9,090 kgf)
Maximum permissible linepull wire strength	64.7 kN (6,600 kgf)

AUXILIARY WINCH

Variable speed type with grooved drum driven by hydraulic axial piston motor through speed reducer. Power load lowering and raising.

Equipped with automatic brake (neutral brake) and counterbalance valve. Controlled independently of main winch. Equipped with cable follower and drum rotation indicator.

AUXILIARY DRUM

Root diameter x wide	0.362 m x 0.6 m
Wire rope diameter x length	19 mm x 139 m
Drum capacity	304 m, 7 layers
Maximum single line pull (1st layer).....	89.1 kN (9,090 kgf)
Maximum permissible linepull wire strength	64.7 kN (6,600 kgf)

WIRE ROPE

Non-rotating wire (no-spin), extra improved plow steel, preformed, independent wire rope core, right regular lay.

Main & Auxillary	19 mm 7 x 39 class
------------------------	--------------------

HOOK BLOCKS

80 ton (option)	7 sheaves with swivel hook and safety latch
60 ton (option)	6 sheaves with swivel hook and safety latch
50 ton (option)	5 sheaves with swivel hook and safety latch
35 ton (option)	3 sheaves with swivel hook and safety latch
6.6 ton	Weighted hook with swivel and safety latch

HYDRAULIC SYSTEM

PUMPS

2 variable piston pumps for crane functions. Tandem gear pump for steering, slewing and optional equipment. Powered by carrier engine. Pump disconnect for crane is engaged/disengaged by rotary switch from operator's cab.

CONTROL VALVES

Multiple valves actuated by pilot pressure with integral pressure relief valves.

RESERVOIR

763 liters capacity. External sight level gauge.

FILTRATION

BETA10=10 return filter, full flow with bypass protection, located inside of hydraulic reservoir. Accessible for easy replacement.

OIL COOLER - Air cooled fan type.

CAB AND CONTROLS

Both crane and drive operations can be performed from one cab mounted on rotating superstructure.

Left side, 1 man type, steel construction with sliding door access and safety glass windows opening at side. Door window is powered control. Windshield glass window and roof glass window are shatter-resistant. Wiper and washer (front windshield and roof window). Tinted safety glass and sun visor. Tilt-telescoping steering wheel. Adjustable control lever stands for slewing, boom elevating, boom telescoping, auxiliary winch and main winch. Control lever stands can change neutral positions and tilt for easy access to cab. Foot operated controls: boom elevating, boom telescoping, service brake and engine throttle. 3 way adjustable operator's seat with high back, headrest and armrest. Cab floor mat. Engine throttle knob. Hot water cab heater and air conditioning.

Dash-mounted engine start/stop, monitor lamps, cigarette lighter, drive selector switch, parking brake switch, steering mode select switch, power window switch, pump engaged/disengaged switch, slewing brake switch, boom telescoping/auxiliary winch select switch, outrigger control panel, and slewing free/ lock selector switch.

Instruments - Torque converter oil temperature, engine water temperature, air pressure, fuel, speedometer, tachometer, hour meter and odometer / tripmeter. Engin over-run alarm. Back-up alarm. Low oil pressure/high water temp. Warning device (visual). Rear steer centering light. Hydraulic oil pressure is monitored and displayed on the AML-C display panel.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

CRANE SPECIFICATIONS

TADANO Automatic Moment Limiter (AML-C) including:

- Control lever lockout function with audible and visual pre-warning
- Number of parts of line
- Boom position indicator
- Outrigger state indicator
- Slewing angle
- Boom angle / boom length / jib offset angle / jib length / load radius / rated lifting capacities / actual loads read out
- Potential lifting height
- Ratio of actual load moment to rated load moment indication
- Permissible load
- Automatic Speed Reduction and Slow Stop function on boom elevation and slewing
- Working condition register switch
- Load radius / boom angle / tip height / slewing range preset function
- External warning lamp
- Tare function

- Main hydraulic oil pressure
- Fuel consumption monitor
- Main winch / auxiliary winch select
- Drum rotation indicator (audible and visible type) main and auxiliary winch
- On-rubber indicator

TADANO AML-C monitors outrigger extended length and automatically programs the corresponding "RATED LIFTING CAPACITIES" table

Operator's right hand console includes transmission gear selector, slewing lock lever and sight level bubble. Upper right console includes flood lamp switch, roof washer and wiper switch, emergency outrigger set up key switch, jib status switch, eco mode switch, and air conditioning control switch. Lower right console includes boom emergency telescoping switch (2nd and 3rd-top)

NOTE: Each crane motion speed is based on unladen conditions.

CARRIER SPECIFICATIONS

TYPE

Rear engine, left-hand drive, driving axle 2-way selected type by manual switch, 4x2 front drive, 4x4 front and rear drive.

FRAME

High tensile steel, all welded mono-box construction.

ENGINE

Model	MITSUBISHI 6M60-TL
Type	Direct injection diesel
No. of cylinders	6
Combustion	4 cycle, turbo charged and after cooled
Bore x Stroke, mm	118 x 115
Displacement, liters	7.54
Air inlet heater	24 volt preheat
Air cleaner	Dry type, replaceable element
Oil filter	Full flow with replaceable element
Fuel filter	Full flow with replaceable element
Fuel tank, liters	300, right side of carrier
Cooling	Liquid pressurized, recirculating by-pass
Radiator	Fin and tube core, thermostat controlled
Fan, mm	Suction type, 6-blade, 600 dia.
Starting	24 volt
Charging	24 volt system, negative ground
Battery	2-120 amp. Hour
Compressor, air, l/min	830 at 2,600 min ⁻¹
Output, Max. kW (HP)	Gross 200 (267) at 2,600 min ⁻¹
Torque, Max. N·m	785 at 1,400 min ⁻¹
Capacity, liters	
Cooling water	13
Lubrication	13-15
Fuel	300

TRANSMISSION

Electronically controlled full automatic transmission. Torque converter driving full powershift with driving axle selector. 6 forward and 2 reverse speeds, constant mesh.
 3 speeds - high range - 2-wheel drive; 4-wheel drive
 3 speeds - low range - 4-wheel drive

TRAVEL SPEED - 36 km/h

GRADE ABILITY (tan θ) - 94% (at stall), 30%*

* Machine should be operated within the limit of engine crankcase design (17°: MITSUBISHI 6M60-TL)

AXLE

Front: Full floating type, steering and driving axle with planetary reduction.

Rear: Full floating type, steering and driving axle with planetary reduction and non-spin rear differential.

STEERING

Hydraulic power steering controlled by steering wheel. 4 steering modes available: 2 wheel front, 2 wheel rear, 4 wheel coordinated and 4 wheel crab.

SUSPENSION

Front: Rigid mounted to the frame.

Rear: Pivot mounted with hydraulic lockout device.

BRAKE SYSTEMS

Service: Air over hydraulic disc brakes on all 4 wheels. Parking/Emergency: Spring applied-air released brake acting on input shaft of front axle. Auxiliary: Electro-pneumatic operated exhaust brake.

TIRES - 29.5-25 34PR (OR) Air pressure: 400 kPa

OUTRIGGERS

4 hydraulic, beam and jack outriggers. Vertical jack cylinders equipped with integral holding valve. Each outrigger beam and jack is controlled independently from cab. Beams extend to 7.3 m center-line and retract to within 3.315 m overall width with floats. Outrigger jack floats are attached thus eliminating the need of manually attaching and detaching them. Controls and sight bubble located in superstructure cab. 4 outrigger extension lengths are provided with corresponding "RATED LIFTING CAPACITIES" for crane duty in confined areas.

Min. Extension	2.7 m center to center
Mid. Extension	5.5 m center to center
Mid. Extension	6.7 m center to center
Max. Extension	7.3 m center to center
Float size (Diameter)	0.6 m

COUNTERWEIGHT

Integral with slewing frame Mass... 9,980 kg (Containing weight with auxiliary winch and wire rope)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

ON OUTRIGGERS FULLY EXTENDED 7.3 m SPREAD 360° ROTATION (Unit: ×1000 kg)																
B	A	12.0 m		16.4 m		20.8 m		29.5 m		38.3 m		42.6 m		47.0 m		
		C	C	C	C	C	C	C	C	C	C	C	C	C		
3.0	70	80.0	75	46.6	79	40.9	78	18.2								
3.5	67	74.2	74	46.6	77	40.9	77	18.2								
4.0	64	67.0	72	46.6	76	40.9	76	18.2								
4.5	62	60.9	70	46.6	75	40.9	74	18.2								
5.0	59	55.7	68	46.6	73	38.9	73	18.2	79	18.2	78	15.1				
5.5	56	51.1	66	46.6	72	36.8	71	18.2	78	18.2	77	15.1				
6.0	53	46.2	64	45.8	70	34.9	70	18.2	77	18.2	76	15.1				
6.5	49	42.1	62	41.7	69	33.2	68	18.2	76	18.2	75	15.1				
7.0	46	38.6	60	38.3	67	31.6	67	18.2	75	18.2	75	15.1	79	15.1	79	13.0
7.5	42	35.6	58	34.4	66	30.1	65	18.2	74	18.2	74	15.1	78	15.1	78	13.0
8.0	38	33.0	56	31.0	64	28.1	64	18.2	73	18.2	73	15.1	78	15.1	78	12.8
9.0	27	24.0	51	24.9	61	23.3	60	18.2	71	18.2	71	15.1	76	15.1	76	12.1
10.0			46	20.2	58	19.7	57	18.2	69	18.2	69	15.0	75	14.6	75	11.3
11.0			40	16.7	54	16.3	54	18.2	67	16.6	66	14.0	74	13.8	73	10.7
12.0			34	14.0	50	13.6	50	16.4	65	14.6	64	13.2	72	13.0	72	10.1
14.0			13	10.2	42	9.9	42	12.4	60	11.2	60	11.7	69	11.3	68	9.0
16.0					32	7.3	32	9.8	55	8.6	55	10.3	65	9.1	65	8.1
18.0					16	5.5	16	7.5	50	6.7	50	8.3	62	7.2	62	7.4
20.0									44	5.3	44	6.9	58	5.8	58	6.8
22.0									38	4.2	38	5.7	54	4.7	54	5.9
24.0									30	3.3	30	4.8	50	3.8	50	5.0
26.0									20	2.5	20	4.0	46	3.0	46	4.2
28.0													36	1.9	36	3.1
30.0													29	1.5	30	2.6
32.0													22	1.1	22	2.2
34.0															35	1.8
36.0															30	1.4
38.0															23	1.1
40.0															12	0.9
D																

Telescoping conditions (%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100	100	100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS FULLY EXTENDED 7.3 m SPREAD 360° ROTATION (Unit: ×1000 kg)																		
C	A	12.0 m		16.4 m		20.8 m		29.5 m		38.3 m		42.6 m						
		B	B	B	B	B	B	B	B	B	B	B						
0°	9.8	20.3	14.1	10.0	18.4	5.2	18.4	7.2	27.2	2.2	27.0	3.7	35.8	0.8	35.0	2.1	40.0	0.9
Telescoping Mode	I, II	I	I	II	II													

ON OUTRIGGERS MID EXTENDED 6.7 m SPREAD OVER SIDE (Unit: ×1000 kg)																		
B	A	12.0 m		16.4 m		20.8 m		29.5 m		38.3 m		42.6 m		47.0 m				
		C	C	C	C	C	C	C	C	C	C	C	C					
3.0	70	80.0	76	46.6	79	40.9	78	18.2										
3.5	67	72.1	74	46.6	77	40.9	77	18.2										
4.0	65	65.0	72	46.6	76	40.9	76	18.2										
4.5	62	59.0	70	46.6	75	40.9	74	18.2										
5.0	59	53.8	68	46.6	73	38.9	73	18.2	79	18.2	78	15.1						
5.5	55	49.3	66	46.6	72	36.8	71	18.2	78	18.2	77	15.1						
6.0	52	44.0	64	43.5	70	34.5	70	18.2	77	18.2	76	15.1						
6.5	49	40.0	62	38.0	69	32.0	68	18.2	76	18.2	75	15.1						
7.0	46	35.5	60	33.6	67	30.0	67	18.2	75	18.2	74	15.1	79	15.1	79	13.0		
7.5	42	31.8	58	30.1	66	27.3	65	18.2	74	18.2	74	15.1	78	15.1	78	13.0		
8.0	37	27.8	55	27.1	64	24.6	64	18.2	73	18.2	73	15.1	78	15.1	78	12.8		
9.0	27	22.0	51	21.3	61	20.4	61	18.2	71	18.2	71	15.1	76	15.1	76	12.1		
10.0			46	17.2	57	16.8	57	18.2	69	17.0	69	15.0	75	14.6	75	11.3		
11.0			40	14.2	54	13.8	54	16.7	67	14.7	66	14.0	73	13.8	73	10.7		
12.0			34	11.9	50	11.5	50	14.2	64	12.9	64	13.2	72	12.6	72	10.1		
14.0			13	8.6	42	8.2	42	10.8	60	9.6	60	11.3	69	10.0	68	9.0		
16.0					32	6.0	32	8.4	55	7.3	55	8.9	65	7.9	65	8.1		
18.0					16	4.3	16	6.7	50	5.6	50	7.2	62	6.2	62	7.2		
20.0									44	4.3	44	5.9	58	4.9	58	6.1		
22.0									38	3.3	38	4.8	54	3.9	54	5.1		
24.0									30	2.5	31	4.0	50	3.1	50	4.2		
26.0									20	1.9	20	3.4	46	2.4	46	3.5		
28.0													41	1.8	41	3.0		
30.0													36	1.4	36	2.5		
32.0													30	1.0	29	2.1		
34.0															21	1.7		
36.0															30	1.0		
D																		

Telescoping conditions (%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100	100	100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED 6.7 m SPREAD OVER SIDE (Unit: ×1000 kg)																		
C	A	12.0 m		16.4 m		20.8 m		29.5 m		38.3 m		47.0 m						
		B	B	B	B	B	B	B	B	B	B	B						
0°	9.8	18.0	14.2	8.3	18.5	4.0	18.3	6.5	27.2	1.5	27.2	3.0	35.4	1.6				
Telescoping Mode	I, II	I	I	II	I	II	I	II	I	II	II							

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

ON OUTRIGGERS MID EXTENDED 5.5 m SPREAD OVER SIDE (Unit: ×1000 kg)													
A	12.0 m		16.4 m		20.8 m		29.5 m		38.3 m		42.6 m		47.0 m
	C	C	C	C	C	C	C	C	C	C	C	C	C
3.0	70	75.4	75	46.6	79	40.9	78	18.2					
3.5	67	67.0	74	46.6	77	40.9	77	18.2					
4.0	64	60.1	72	46.6	76	40.9	76	18.2					
4.5	61	52.8	70	46.6	75	40.9	74	18.2					
5.0	58	47.2	68	41.1	73	36.5	73	18.2	79	18.2	78	15.1	
5.5	55	40.3	66	35.4	72	31.6	71	18.2	78	18.2	77	15.1	
6.0	52	35.0	64	30.9	70	27.8	70	18.2	77	18.2	76	15.1	
6.5	49	30.1	62	27.3	69	24.6	68	18.2	76	18.2	75	15.1	
7.0	45	25.9	60	24.3	67	22.0	67	18.2	75	18.2	74	15.1	79
7.5	42	22.6	58	21.9	66	19.8	65	18.2	74	18.2	74	15.1	79
8.0	38	19.9	55	19.4	64	17.9	64	18.2	73	17.4	73	15.1	78
9.0	27	15.9	51	15.3	61	14.8	61	16.7	71	14.8	71	15.1	76
10.0			46	12.4	57	12.0	57	14.8	69	12.6	69	14.6	75
11.0			40	10.2	54	9.8	54	12.5	66	10.9	66	12.8	73
12.0			34	8.5	50	8.1	50	10.6	64	9.5	64	11.2	71
14.0			13	5.9	42	5.5	42	8.0	60	6.9	59	8.5	68
16.0					32	3.8	32	6.2	55	5.1	55	6.7	65
18.0					16	2.5	14	4.8	49	3.7	50	5.3	61
20.0									44	2.7	44	4.2	57
22.0									38	1.9	38	3.4	54
24.0									30	1.3	30	2.7	50
26.0											20	2.2	45
28.0													40
30.0													35
32.0													29
34.0													20
D													

Telescoping conditions (%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MID EXTENDED 5.5 m SPREAD OVER SIDE (Unit: ×1000 kg)												
A	12.0 m		16.4 m		20.8 m		29.5 m		38.3 m			
	B	B	B	B	B	B	B	B	B	B	B	B
0°	9.8	13.0	14.1	5.8	18.5	2.3	18.3	4.6	27.2	0.5	27.1	2.0
Telescoping Mode	I, II	I	I	II	I	II	I	II	II			

ON OUTRIGGERS MIN EXTENDED 2.7 m SPREAD OVER SIDE (Unit: ×1000 kg)													
A	12.0 m		16.4 m		20.8 m		29.5 m		38.3 m		42.6 m		47.0 m
	C	C	C	C	C	C	C	C	C	C	C	C	
3.0	70	33.8	75	28.9	79	20.9	78	18.2					
3.5	67	27.7	74	23.9	78	20.9	77	18.2					
4.0	64	23.3	71	20.2	76	17.8	75	18.2					
4.5	61	19.9	70	17.3	75	15.3	74	18.2					
5.0	58	17.2	68	15.0	73	13.2	73	16.1	78	12.7	78	14.6	
5.5	55	14.5	66	13.0	72	11.5	71	14.4	77	11.3	77	13.1	
6.0	52	12.3	64	11.5	70	10.1	70	12.9	76	10.1	76	11.9	
6.5	48	10.6	62	10.1	68	8.9	68	11.6	75	9.0	75	10.8	
7.0	45	9.2	60	8.7	67	7.8	67	10.5	74	8.1	74	9.9	78
7.5	42	8.0	57	7.5	66	6.9	65	9.6	73	7.3	73	9.1	77
8.0	38	7.0	55	6.5	64	6.1	63	8.7	72	6.6	72	8.3	77
9.0	28	5.4	50	4.9	61	4.6	60	7.0	70	5.4	70	7.1	75
10.0			46	3.7	57	3.3	57	5.7	68	4.4	68	6.1	74
11.0			40	2.7	54	2.3	53	4.6	66	3.6	66	5.1	72
12.0			34	1.9	50	1.5	49	3.8	63	2.8	63	4.3	71
14.0							41	2.5	59	1.6	59	3.0	67
16.0							32	1.6	54	2.1	64	1.1	64
18.0							12	0.9	49	1.4	61	1.6	64
20.0											57	1.0	
D													

Telescoping conditions (%)

Telescoping Mode	I, II	I	I	II	I	II	I	II	II	I, II
2nd boom	0	50	100	0	100	0	100	0	50	100
3rd boom	0	0	0	33	33	66	66	100	100	100
4th boom	0	0	0	33	33	66	66	100	100	100
Top boom	0	0	0	33	33	66	66	100	100	100

LIFTING CAPACITIES AT ZERO DEGREE BOOM ANGLE ON OUTRIGGERS MIN EXTENDED 2.7 m SPREAD OVER SIDE (Unit: ×1000 kg)												
A	12.0 m		20.8 m									
	B	B	B	B	B	B	B	B	B	B	B	B
0°	9.8	4.0			18.3	0.8						
Telescoping Mode	I, II			II								

- A: Boom length (m)
- B: Load radius (m)
- C: Loaded boom angle (°)
- D: Minimum boom angle (°) for indicated boom length (no load)

Crawler Crane

55t
7055

80t
CKS800

90t
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135t
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25t
GR-250N-2

30t
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All Terrain Crane

160t
ATF160G-5

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LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

ON OUTRIGGERS FULLY EXTENDED 7.3 m SPREAD 360° ROTATION (Unit: ×1000 kg)						
C	47.0-m Boom + 10.1-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	10.9	4.9	14.2	4.9	16.7	4.3
79	11.8	4.9	15.2	4.7	17.7	4.2
78	12.9	4.9	16.4	4.6	18.6	4.1
77	14.0	4.9	17.4	4.5	19.5	4.0
76	15.1	4.9	18.4	4.4	20.5	3.9
75	16.0	4.9	19.3	4.2	21.7	3.9
73	18.2	4.8	21.3	4.0	23.5	3.7
70	21.2	4.4	24.2	3.8	26.3	3.5
68	23.2	4.1	26.0	3.6	28.0	3.4
65	26.0	3.8	28.6	3.4	30.5	3.1
63	27.8	3.2	30.2	2.9	31.9	2.7
60	30.0	2.5	32.4	2.3	33.9	2.2
58	31.7	2.1	34.0	2.0	35.2	1.9
55	33.9	1.6	35.9	1.5	37.0	1.5
53	35.3	1.4	37.2	1.3	38.4	1.2
50	37.4	1.0	39.3	1.0	40.2	0.9

ON OUTRIGGERS FULLY EXTENDED 7.3 m SPREAD 360° ROTATION (Unit: ×1000 kg)						
C	47.0-m Boom + 17.7-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	12.8	3.1	19.1	2.9	23.8	2.3
79	14.1	3.1	20.5	2.8	24.7	2.3
78	15.5	3.1	21.7	2.7	26.0	2.3
77	16.9	3.1	22.7	2.7	27.0	2.3
76	18.1	3.1	24.1	2.6	28.0	2.2
75	19.4	3.1	25.2	2.6	29.0	2.2
73	21.9	3.1	27.3	2.5	30.0	2.2
70	25.6	3.1	30.4	2.4	33.8	2.1
68	27.8	3.0	32.4	2.3	35.7	2.1
65	30.8	2.7	35.3	2.2	38.1	2.0
63	32.7	2.3	36.9	2.0	39.6	1.8
60	35.2	1.7	39.3	1.5	41.9	1.4
58	36.7	1.4	40.8	1.3	43.0	1.2
55	39.2	1.0	43.3	0.9		

ON OUTRIGGERS FULLY EXTENDED 7.3 m SPREAD 360° ROTATION (Unit: ×1000 kg)						
C	42.6-m Boom (telescoping mode II) + 10.1-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	9.4	5.3	13.4	5.2	15.6	4.6
79	10.4	5.3	14.3	5.1	16.5	4.5
78	11.3	5.3	15.3	5.0	17.5	4.4
77	12.4	5.3	16.3	4.8	18.3	4.3
76	13.5	5.3	17.2	4.7	19.2	4.2
75	14.5	5.3	18.1	4.6	19.9	4.1
73	16.5	5.2	19.8	4.3	21.6	4.0
70	19.2	4.7	22.5	4.0	23.9	3.7
68	21.1	4.5	24.1	3.9	25.5	3.6
65	23.5	4.1	26.4	3.6	27.6	3.4
63	25.2	3.9	28.0	3.5	29.1	3.3
60	27.5	3.5	30.2	3.2	31.1	3.0
58	28.9	3.1	31.6	2.9	32.4	2.7
55	31.1	2.6	33.6	2.4	34.3	2.3
53	32.5	2.3	34.8	2.1	35.3	2.0
50	34.4	1.9	36.5	1.8	37.0	1.7
48	35.7	1.7	37.7	1.6	38.1	1.5
45	37.5	1.4	39.3	1.3	39.5	1.3
43	38.6	1.2	40.4	1.1		
40	40.3	1.0	41.9	0.9		

ON OUTRIGGERS FULLY EXTENDED 7.3 m SPREAD 360° ROTATION (Unit: ×1000 kg)						
C	42.6-m Boom (telescoping mode II) + 17.7-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	11.5	3.3	18.5	3.0	22.6	2.4
79	12.6	3.3	19.6	2.9	23.4	2.3
78	13.8	3.3	20.4	2.8	24.5	2.3
77	15.1	3.3	21.3	2.8	25.5	2.3
76	16.3	3.3	22.3	2.7	26.4	2.3
75	17.5	3.3	23.3	2.7	27.3	2.3
73	19.6	3.3	25.4	2.6	28.9	2.2
70	23.0	3.3	28.3	2.5	31.5	2.1
68	25.2	3.3	30.1	2.4	33.1	2.1
65	28.1	3.0	32.8	2.3	35.4	2.1
63	30.2	2.9	34.6	2.3	36.9	2.0
60	32.7	2.6	36.9	2.2	39.2	2.0
58	34.3	2.2	38.4	2.0	40.4	1.9
55	36.7	1.8	40.6	1.7	42.2	1.6
53	38.0	1.6	41.7	1.4	43.4	1.4
50	40.2	1.3	43.7	1.2	45.0	1.1
48	41.6	1.1	45.0	1.0	46.0	1.0

ON OUTRIGGERS FULLY EXTENDED 7.3 m SPREAD 360° ROTATION (Unit: ×1000 kg)						
C	38.3-m Boom (telescoping mode I) + 10.1-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	8.4	6.6	12.5	6.4	14.7	4.9
79	9.3	6.6	13.4	6.2	15.5	4.8
78	10.3	6.6	14.1	6.0	16.3	4.7
77	11.2	6.6	15.1	5.9	17.1	4.7
76	12.1	6.6	15.8	5.7	18.0	4.6
75	13.0	6.6	16.6	5.6	18.6	4.6
73	14.9	6.6	18.2	5.4	20.1	4.5
70	17.4	6.2	20.6	5.1	22.3	4.4
68	19.0	5.9	22.1	4.9	23.6	4.4
65	21.4	5.5	24.3	4.7	25.7	4.3
63	22.8	4.8	25.6	4.3	26.9	3.9
60	24.9	3.9	27.3	3.5	28.7	3.3
58	26.2	3.4	28.6	3.1	29.8	2.9
55	28.0	2.8	30.3	2.6	31.5	2.5
53	29.5	2.5	31.5	2.3	32.6	2.2
50	31.3	2.1	33.1	1.9	34.2	1.8
48	32.5	1.8	34.2	1.7	35.1	1.6
45	34.2	1.5	35.7	1.4	36.5	1.3
43	35.3	1.3	36.7	1.2		
40	36.8	1.0	38.2	1.0		
38	37.7	0.9				

ON OUTRIGGERS FULLY EXTENDED 7.3 m SPREAD 360° ROTATION (Unit: ×1000 kg)						
C	38.3-m Boom (telescoping mode I) + 17.7-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	10.5	4.0	17.1	3.2	20.8	2.4
79	11.6	4.0	18.0	3.1	21.7	2.3
78	12.7	4.0	19.0	3.0	22.6	2.3
77	13.7	4.0	19.9	3.0	23.5	2.3
76	14.8	4.0	20.7	2.9	24.4	2.3
75	15.9	4.0	21.7	2.9	25.2	2.3
73	18.0	4.0	23.5	2.8	26.8	2.2
70	20.8	3.8	26.1	2.6	29.1	2.1
68	22.7	3.6	27.8	2.6	30.7	2.1
65	25.4	3.4	30.4	2.5	32.8	2.1
63	27.3	3.2	31.9	2.4	34.2	2.1
60	29.8	2.8	34.2	2.3	36.2	2.0
58	31.2	2.4	35.5	2.1	37.5	2.0
55	33.5	2.0	37.5	1.8	39.2	1.7
53	34.9	1.7	38.6	1.5	40.4	1.5
50	37.0	1.4	40.4	1.2	41.8	1.2
48	38.3	1.2	41.6	1.1	42.7	1.0
45	40.2	0.9				

C: boom angle (°)
R: Load radius (m)
W: Rated lifting capacity (Unit: ×1,000 kg)

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

ON OUTRIGGERS MID EXTENDED 6.7 m SPREAD OVER SIDE (Unit: x1000 kg)							ON OUTRIGGERS MID EXTENDED 6.7 m SPREAD OVER SIDE (Unit: x1000 kg)						
C	47.0-m Boom + 10.1-m Jib						47.0-m Boom + 17.7-m Jib						
	3.5° Tilt		25° Tilt		45° Tilt		3.5° Tilt		25° Tilt		45° Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80	10.8	4.9	14.3	4.9	16.7	4.3	12.8	3.1	19.1	2.9	23.8	2.3	
79	11.9	4.9	15.4	4.7	17.8	4.2	14.1	3.1	20.5	2.8	24.7	2.3	
78	13.0	4.9	16.4	4.6	18.8	4.1	15.5	3.1	21.6	2.7	26.1	2.3	
77	14.1	4.9	17.6	4.5	19.8	4.0	16.9	3.1	22.9	2.7	27.2	2.3	
76	15.2	4.9	18.5	4.4	20.8	3.9	18.1	3.1	24.2	2.6	28.1	2.2	
75	16.1	4.9	19.6	4.2	21.9	3.9	19.4	3.1	25.4	2.6	29.2	2.2	
73	18.3	4.8	21.5	4.0	23.6	3.7	21.9	3.1	27.5	2.5	31.1	2.2	
70	21.2	4.4	24.3	3.8	26.4	3.5	25.6	3.1	30.5	2.4	33.9	2.1	
68	23.1	3.9	26.0	3.5	28.0	3.2	27.6	2.7	32.5	2.3	35.7	2.1	
65	25.7	3.0	28.2	2.7	30.2	2.5	30.2	2.0	35.0	1.8	37.9	1.7	
63	27.4	2.5	29.9	2.3	31.6	2.2	32.3	1.7	36.4	1.5	39.3	1.4	
60	29.9	1.9	32.3	1.8	33.8	1.7	34.6	1.2	38.9	1.1	41.4	1.0	
58	31.4	1.6	33.8	1.5	35.1	1.4	36.4	1.0					
55	33.7	1.2	35.7	1.1	37.0	1.0							
53	35.1	0.9											

ON OUTRIGGERS MID EXTENDED 6.7 m SPREAD OVER SIDE (Unit: x1000 kg)							ON OUTRIGGERS MID EXTENDED 6.7 m SPREAD OVER SIDE (Unit: x1000 kg)						
C	42.6-m Boom (telescoping mode II) + 10.1-m Jib						42.6-m Boom (telescoping mode II) + 17.7-m Jib						
	3.5° Tilt		25° Tilt		45° Tilt		3.5° Tilt		25° Tilt		45° Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80	9.3	5.3	13.3	5.2	15.7	4.6	11.5	3.3	18.6	3.0	22.5	2.4	
79	10.4	5.3	14.3	5.1	16.5	4.5	12.7	3.3	19.4	2.9	23.4	2.3	
78	11.5	5.3	15.2	5.0	17.4	4.4	13.8	3.3	20.4	2.8	24.4	2.3	
77	12.5	5.3	16.2	4.8	18.4	4.3	15.0	3.3	21.3	2.8	25.4	2.3	
76	13.6	5.3	17.2	4.7	19.1	4.2	16.1	3.3	22.2	2.7	26.3	2.3	
75	14.5	5.3	18.1	4.6	19.9	4.1	17.4	3.3	23.3	2.7	27.2	2.3	
73	16.4	5.2	19.7	4.3	21.6	4.0	19.6	3.3	25.4	2.6	29.0	2.2	
70	19.2	4.7	22.3	4.0	23.9	3.7	23.0	3.3	28.2	2.5	31.4	2.1	
68	21.1	4.5	24.0	3.9	25.5	3.6	25.3	3.3	30.3	2.4	33.1	2.1	
65	23.5	4.1	26.4	3.6	27.6	3.4	28.1	3.0	32.7	2.3	35.3	2.1	
63	25.1	3.7	27.9	3.3	28.9	3.1	29.8	2.7	34.7	2.2	36.8	2.0	
60	27.2	3.0	29.9	2.7	30.9	2.6	32.1	2.1	36.5	1.8	38.8	1.7	
58	28.7	2.6	31.3	2.4	32.2	2.3	33.8	1.8	38.0	1.6	40.1	1.5	
55	30.7	2.1	33.2	1.9	34.0	1.9	36.2	1.4	40.0	1.2	42.0	1.2	
53	32.1	1.8	34.5	1.7	35.1	1.6	37.7	1.2	41.4	1.1	43.1	1.0	
50	34.1	1.5	36.3	1.4	36.8	1.3	39.8	0.9					
48	35.4	1.3	37.4	1.2	37.9	1.2							
45	37.2	1.0	39.2	1.0	39.4	0.9							

ON OUTRIGGERS MID EXTENDED 6.7 m SPREAD OVER SIDE (Unit: x1000 kg)							ON OUTRIGGERS MID EXTENDED 6.7 m SPREAD OVER SIDE (Unit: x1000 kg)						
C	38.3-m Boom (telescoping mode I) + 10.1-m Jib						38.3-m Boom (telescoping mode I) + 17.7-m Jib						
	3.5° Tilt		25° Tilt		45° Tilt		3.5° Tilt		25° Tilt		45° Tilt		
	R	W	R	W	R	W	R	W	R	W	R	W	
80	8.4	6.6	12.5	6.4	14.7	4.9	10.5	4.0	17.0	3.2	20.8	2.4	
79	9.3	6.6	13.2	6.2	15.5	4.8	11.6	4.0	18.1	3.1	21.7	2.3	
78	10.3	6.6	14.1	6.0	16.2	4.7	12.7	4.0	18.9	3.0	22.7	2.3	
77	11.2	6.6	15.0	5.9	17.1	4.7	13.7	4.0	19.9	3.0	23.5	2.3	
76	12.2	6.6	15.8	5.7	17.8	4.6	14.8	4.0	20.8	2.9	24.4	2.3	
75	13.0	6.6	16.6	5.6	18.6	4.6	15.9	4.0	21.8	2.9	25.3	2.3	
73	14.9	6.6	18.2	5.4	20.0	4.5	17.8	4.0	23.5	2.8	26.7	2.2	
70	17.4	6.2	20.6	5.1	22.3	4.4	20.8	3.8	26.2	2.6	29.3	2.1	
68	19.1	5.9	22.1	4.9	23.7	4.4	22.7	3.6	28.0	2.6	30.7	2.1	
65	21.2	4.8	24.0	4.1	25.6	3.8	25.6	3.4	30.4	2.5	32.8	2.1	
63	22.6	4.2	25.3	3.6	26.8	3.4	27.2	3.0	32.1	2.4	34.4	2.1	
60	24.7	3.4	27.0	2.9	28.5	2.8	29.4	2.3	34.0	2.0	36.2	1.9	
58	26.1	2.9	28.3	2.5	29.7	2.4	30.9	2.0	35.4	1.7	38.4	1.6	
55	28.0	2.4	30.1	2.1	31.4	2.0	33.3	1.6	37.3	1.4	39.1	1.3	
53	29.3	2.0	31.3	1.8	32.5	1.8	34.7	1.3	38.5	1.1	40.2	1.1	
50	31.1	1.6	33.0	1.5	34.1	1.4	36.8	1.0					
48	32.3	1.4	34.1	1.3	35.0	1.2							
45	34.0	1.1	35.6	1.0	36.4	1.0							
43	35.1	0.9											

C: Loaded boom angle (°)
R: Load radius (m)
W: Rated lifting capacity (Unit: x1,000 kg)

Crawler Crane

55t
7055

80t
CKS800

90t
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135t
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30t
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50t
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160t
ATF160G-5

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220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

ON OUTRIGGERS MID EXTENDED 5.5 m SPREAD OVER SIDE (Unit: ×1000 kg)						
C	47.0-m Boom + 10.1-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	10.7	4.9	14.2	4.9	16.8	4.3
79	11.9	4.9	15.4	4.7	17.8	4.2
78	13.0	4.9	16.5	4.6	18.8	4.1
77	14.0	4.9	17.6	4.5	19.8	4.0
76	15.2	4.9	18.6	4.4	20.8	3.9
75	16.3	4.9	19.5	4.2	21.9	3.9
73	18.3	4.2	21.5	3.5	23.6	3.3
70	21.2	3.1	24.2	2.7	26.4	2.5
68	23.2	2.5	26.1	2.2	28.0	2.1
65	26.1	1.8	28.7	1.6	30.5	1.6
63	27.8	1.5	30.2	1.3	32.0	1.3
60	30.1	1.0				

ON OUTRIGGERS MID EXTENDED 5.5 m SPREAD OVER SIDE (Unit: ×1000 kg)						
C	47.0-m Boom + 17.7-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	12.8	3.1	19.3	2.9	23.9	2.3
79	14.1	3.1	20.5	2.8	24.9	2.3
78	15.6	3.1	21.7	2.7	26.0	2.3
77	16.9	3.1	22.9	2.7	27.1	2.3
76	18.2	3.1	24.0	2.6	28.2	2.2
75	19.5	3.1	23.1	2.6	29.1	2.2
73	22.2	2.8	27.5	2.3	31.2	2.2
70	25.8	2.0	30.7	1.7	33.9	1.6
68	27.9	1.6	32.5	1.4	35.8	1.3
65	31.2	1.1	35.4	0.9	38.2	0.9

ON OUTRIGGERS MID EXTENDED 5.5 m SPREAD OVER SIDE (Unit: ×1000 kg)						
C	42.6-m Boom (telescoping mode II) + 10.1-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	9.3	5.3	13.4	5.2	15.7	4.6
79	10.4	5.3	14.3	5.1	16.6	4.5
78	11.4	5.3	15.2	5.0	17.4	4.4
77	12.4	5.3	16.2	4.8	18.3	4.3
76	13.6	5.3	17.2	4.7	19.1	4.2
75	14.5	5.3	18.1	4.6	20.0	4.1
73	16.5	5.2	19.8	4.3	21.6	4.0
70	19.2	4.5	22.3	3.9	23.9	3.6
68	20.7	3.8	23.8	3.3	25.2	3.1
65	23.0	3.0	26.0	2.6	27.2	2.4
63	24.5	2.5	27.3	2.2	28.5	2.1
60	26.7	1.9	29.5	1.7	30.5	1.6
58	28.1	1.6	30.8	1.5	31.8	1.4
55	30.3	1.2	32.8	1.1	33.7	1.1
53	31.7	1.0				

ON OUTRIGGERS MID EXTENDED 5.5 m SPREAD OVER SIDE (Unit: ×1000 kg)						
C	42.6-m Boom (telescoping mode II) + 17.7-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	11.5	3.3	18.6	3.0	22.5	2.4
79	12.7	3.3	19.6	2.9	23.5	2.3
78	13.9	3.3	20.2	2.8	24.4	2.3
77	15.0	3.3	21.2	2.8	25.3	2.3
76	16.2	3.3	22.3	2.7	26.3	2.3
75	17.5	3.3	23.1	2.7	27.3	2.3
73	19.7	3.3	25.9	2.6	29.0	2.2
70	23.0	3.2	28.2	2.5	31.5	2.1
68	24.7	2.6	29.9	2.3	33.0	2.0
65	27.4	2.0	32.4	1.8	35.0	1.5
63	29.1	1.7	33.8	1.5	36.4	1.3
60	31.6	1.3	36.0	1.1	38.5	1.0
58	33.2	1.0				

ON OUTRIGGERS MID EXTENDED 5.5 m SPREAD OVER SIDE (Unit: ×1000 kg)						
C	38.3-m Boom (telescoping mode I) + 10.1-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	8.4	6.6	12.5	6.4	14.7	4.9
79	9.3	6.6	13.4	6.2	15.5	4.8
78	10.3	6.6	14.2	6.0	16.3	4.7
77	11.2	6.6	15.0	5.9	17.1	4.7
76	12.2	6.6	15.9	5.7	17.9	4.6
75	13.0	6.6	16.6	5.6	18.7	4.6
73	14.8	6.3	18.3	5.4	20.1	4.5
70	17.1	5.0	20.3	4.3	22.2	3.9
68	18.6	4.2	21.7	3.7	23.4	3.4
65	20.8	3.3	23.6	2.9	25.3	2.7
63	22.3	2.8	24.9	2.5	26.5	2.3
60	24.4	2.1	26.8	1.9	28.3	1.8
58	25.8	1.8	28.1	1.6	29.5	1.5
55	27.8	1.3	29.9	1.2	31.3	1.1
53	28.9	1.0	31.0	1.0	32.3	0.9

ON OUTRIGGERS MID EXTENDED 5.5 m SPREAD OVER SIDE (Unit: ×1000 kg)						
C	38.3-m Boom (telescoping mode I) + 17.7-m Jib					
	3.5° Tilt		25° Tilt		45° Tilt	
	R	W	R	W	R	W
80	10.5	4.0	17.0	3.2	20.8	2.4
79	11.6	4.0	18.1	3.1	21.7	2.3
78	12.7	4.0	19.0	3.0	22.7	2.3
77	13.8	4.0	19.9	3.0	23.6	2.3
76	14.8	4.0	20.8	2.9	24.5	2.3
75	15.9	4.0	21.8	2.9	25.3	2.3
73	18.0	4.0	23.6	2.8	26.9	2.2
70	20.7	3.7	26.3	2.6	29.2	2.1
68	22.5	3.1	28.0	2.5	30.8	2.1
65	25.0	2.4	30.1	1.9	32.8	1.8
63	26.6	1.9	31.5	1.6	34.0	1.5
60	28.9	1.4	33.7	1.2	35.9	1.1
58	30.5	1.1	35.1	1.0	37.1	0.9

C: Loaded boom angle (°)
R: Load radius (m)
W: Rated lifting capacity (Unit: ×1,000 kg)

Crawler Crane

55t
7055

80t
CKS800

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220t
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Aerial Platform

Boom Lift

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Tele handler

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Vibro Roller
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Motor Grader

Warning And Operating Instructions For Lifting Capacities

GENERAL

1. RATED LIFTING CAPACITIES apply only to the machine as originally manufactured and normally equipped by TADANO LTD. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Hydraulic cranes can be hazardous if improperly operated or maintained. Operation and maintenance of this machine must be in compliance with information in the Operation and Maintenance Manual supplied with the crane. If this manual is missing, order a replacement through the distributor.

SET UP

1. Rated lifting capacities on the chart are the maximum allowable crane capacities and are based on the machine standing level on firm supporting surface under ideal job conditions. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the loads to a larger bearing surface.
2. For outrigger operation, outriggers shall be properly extended with tires free of supporting surface before operating crane.

OPERATION

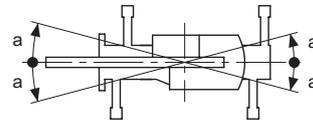
1. Rated lifting capacities on outriggers fully extended as determined by ISO4305.
2. Rated lifting capacities above thick lines in the chart are based on crane strength and those below, on its stability. They are based on actual load radius increased by boom deflection.
3. The weight of handling device such as hook blocks (700 kg for 80 t capacity, 540 kg for 60 t capacity, 500 kg for 50 t capacity, 450 kg for 35 t capacity, 165 kg for 6.6 t capacity), slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
4. Rated lifting capacities are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tires, operating speeds, side loads, etc. Side pull on the boom or jib is extremely dangerous. Such action can damage the boom, jib or slewing mechanism, and lead to overturning of the crane.
5. Rated lifting capacities do not account for wind on lifted load or boom. We recommend against working under the conditions that the load is out of control due to a strong wind. During boom lift, consider that the rated lifting capacity is reduced by 50% when the wind speed is 9 m/s to 12 m/s; reduced by 70 % when the wind speed is 12 m/s to 14 m/s. If the wind speed is 14 m/s or over, stop operation. During jib lift, stop operation if the wind speed is 9 m/s or over.
6. Rated lifting capacities at load radius shall not be exceeded. Do not tip the crane to determine allowable loads.
7. Do not operate at boom lengths, radii, or boom angles, where no capacities are shown. Crane may overturn without any load on the hook.
8. When boom length is between values listed, refer to the rated lifting capacities of the next longer and next shorter booms for the same radius. The lesser of the two rated lifting capacities shall be used.
9. When making lifts at a load radius not shown, use the next longer radius to determine allowable capacity.
10. Load per line should not exceed 64.7kN (6,600 kgf) for main winch and auxiliary winch.
11. Check the actual number of parts of line with Automatic Moment Limiter (AML-C) before operation. Maximum lifting capacity is restricted by the number of parts of line of Automatic Moment Limiter (AML-C). Limited capacity is as determined from the formula, Single line pull for main winch 64.7 kN (6,600 kgf) x number of parts of line.
12. The boom angle before loading should be greater to account for deflection. For rated lifting capacities, the loaded boom angle and the load radius is for reference only.
13. The 12.0-m Boom length capacities are based on boom fully retracted.
14. Extension or retraction of the boom with loads may be attempted within the limits of the RATED LIFTING CAPACITIES. The ability to telescope loads is limited by hydraulic pressure, boom angle, boom length, crane maintenance, etc.
15. For lifting capacity of single top, deduct the weight of the load handling equipment from the rated lifting capacity of the boom. For the lifting capacity of single top, the net capacity shall not exceed 6,600 kg including the main boom hook mass attached to the boom.

16. When a jib is removed, set the jib state switch to the REMOVED position.
17. When erecting and stowing jib, be sure to retain it by hand or by other means to prevent its free movement.
18. Use "ANTI-TWO-BLOCK DEVICE" disable switch when erecting and stowing jib and when stowing hook block. While the switch is pushed, the hoist does not stop, even when overwind condition occurs.
19. For boom length 47.0 m or less and 38.3 m or longer with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "47.0-m boom + jib".
For boom length 38.3 m or less with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "38.3-m boom + jib". For angles not shown, use the next lower loaded boom angle to determine allowable capacity. (Telescoping MODE I)
For boom length 47.0 m or less and 42.6 m or longer with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "47.0-m boom + jib".
For boom length 42.6 m or less with jib, rated lifting capacities are determined by loaded boom angle only in the column headed "42.6-m boom + jib". For angles not shown, use the next lower loaded boom angle to determine allowable capacity. (Telescoping MODE II)
20. When lifting a load by using jib (aux. winch) and boom (main winch) simultaneously, do the following:
 - Enter the operation status as jib operation, not as boom operation.
 - Before starting operation, make sure that mass of load is within rated lifting capacity for jib.
21. Before telescoping the boom, set the telescoping mode selector switch to MODE I or MODE II with the boom fully retracted. A change of the telescoping mode is not permissible when the boom has been partially or fully extended.
22. The lifting capacity data stowed in the Automatic Moment Limiter (AML-C) is based on the standard number of parts of line listed in the chart. Standard number of parts of line for an outrigger operation should be according to the following table.

Boom length	12.0 m	12.0 m to 20.8 m	20.8 m to 47.0 m	Single top/ jib
Telescoping mode	I, II	I II	I, II	I, II
Number of parts of line	14	8 4	4	1

23. The lifting capacity for over side area differs depending on outrigger extension width. Work with capacity corresponding to the extension width. The lifting capacities for over front and over rear areas are for "outriggers fully extended". However, the areas (angle a) differ depending on the outrigger extension width.

Outriggers extended width	6.7 m (middle)	5.5 m (middle)	2.7 m (minimum)
Angle a°	60	40	15



DEFINITIONS

1. Load Radius: Horizontal distance from a projection of the axis of rotation to supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. Loaded Boom Angle: The angle between the boom base section and the horizontal, after lifting the rated lifting capacity at the load radius.
3. Working Area: Area measured in a circular arc about the centerline of rotation.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.

- Crawler Crane**
- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CE1800
- 250t CE2500-2
- Rough Terrain Crane**
- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL
- 60t GR-600EX
- 80t GR-800EX
- All Terrain Crane**
- 160t ATF160G-5
- 200t LTM1200-5.1
- 220t ATF220G-5
- Aerial Platform**
- Boom Lift**
- Scissors Lift**
- Others**
- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Warning And Operating Instructions For Using The Automatic Moment Limiter (AML-C)

1. Set AML select keys in accordance with the actually operating crane conditions and don't fail to make sure, before crane operation, that the displays on front panel are correct.
 2. When operating crane on outriggers:
 - Set P.T.O. switch to "ON".
 - Press the outrigger state select key to register for the outrigger operation. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the pop-up window closes.
 - Press the lift state select key to register the lift state to be used (single top / jib / boom).
 - Each time the lift state select key is pressed, the display changes. If the display agrees with the actual state, press the set key to register. After the completion of the registration, the pop-up window closes.
 - When erecting and stowing jib, select the status of jib set (Jib lift indicative symbol flickers).
 3. When operating crane on rubber:
 - Set P.T.O. switch to "ON".
 - Press the outrigger state select key to register for the on rubber operation. Each time the outrigger state select key is pressed, the display changes. Select the creep operation, the on rubber state indicative symbol flickers.
 - Press the lift state select key to register the lift state.
- However, pay attention to the following.
For stationary and creep operation.
- The front capacities are attainable only when the over front position symbol comes on. When the boom is more than 2 degrees from centered over front of chassis, 360° capacities are in effect.

- When a load is lifted in the front position and then slewed to the side area, make sure the value of the AUTOMATIC MOMENT LIMITER (AML-C) is below the 360° lifting capacity.
- This machine is equipped with an automatic slewing stop device.
(For the details, see Operation and Maintenance Manual.)
But, operate very carefully because the automatic slewing stop does not work in the following cases.
- During on rubber operation.
- During crane operation, make sure that the displays on front panel are in accordance with actual operating conditions.
The displayed values of AUTOMATIC MOMENT LIMITER (AML-C) are based on freely suspended loads and make no allowance for such factors as the effect of wind, sudden stopping of loads, supporting surface conditions, inflation of tire, operating speed, side loads, etc.
For safe operation, it is recommended when extending and lowering boom or slewing, lifting loads shall be appropriately reduced.
AUTOMATIC MOMENT LIMITER (AML-C) is intended as an aid to the operator. Under no condition should it be relied upon to replace use of capacity charts and operating instruction.
Sole reliance upon AUTOMATIC MOMENT LIMITER (AML-C) aids in place of good operating practice can cause an accident. The operator must exercise caution to assure safety.

Axle Weight Distribution Chart

	Kilograms		
	GVW	Front	Rear
Basic machine	51,410	24,325	27,085
Add:			
1. 80 ton 7 sheaves hook block	700	1,350	-650
2. 60 ton 6 sheaves hook block	540	1,040	-500
3. 50 ton 5 sheaves hook block	500	970	-470
4. 35 ton 3 sheaves hook block	450	870	-420
Remove:			
1. 6.6 ton hook block	-165	-235	70
2. Top jib	-335	-450	115
3. Base jib	-865	-1,705	840
4. Counter weight with auxiliary winch and wire rope	-9,980	4,240	-14,220

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
 - 30t
GR-300EX
 - 50t
GR-500EXL
 - 60t
GR-600EX
 - 80t
GR-800EX
- All Terrain Crane**
- 160t
ATF160G-5
 - 200t
LTM1200-5.1
 - 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Standard Equipment

- Telematics (machine data logging and monitoring system) with - HELLO-NET via internet (availability depends on countries)
- Eco mode system
- Positive control
- Over unwinding prevention
- Emergency steering system
- Transmission neutral position engine start
- Overshift prevention
- Parking braked travel warning
- Tilt-telescope steering wheel
- Halogen head lamp
- Fenders
- Air dryer
- Water separator with filter (high filtration)
- Air cleaner dust indicator
- Full instrumentation package
- Complete highway light package
- Tire inflation kit
- Towing hooks-Front and rear
- Lifting eyes
- Hook block tie down (front bumper)
- Weighted hook storage compartment
- Winch drum mirror
- Tool storage compartment

Optional Equipment

- Wind speed indicator
- Hook block–80 t capacity (7 sheaves, swivel type with safty latch. Mass: approx. 700 kg)
- Hook block–60 t capacity (6 sheaves, swivel type with safty latch. Mass: approx. 540 kg)
- Hook block–50 t capacity (5 sheaves, swivel type with safty latch. Mass: approx. 500 kg)-
- Hook block–35 t capacity (3 sheaves, swivel type with safty latch. Mass: approx. 450 kg)

Hoisting Performance

LINE SPEEDS AND PULLS

Layer	Main or auxiliary winch - 0.362 m drum			
	Line speeds ¹		Line pulls Available ²	
	m/min		kN (kgf)	
	Low	High	Low	High
1st	84	118	89.1 (9,090)	63.9 (6,520)
2nd	92	128	80.7 (8,230)	57.8 (5,900)
3rd	99	139	73.7 (7,520)	52.8 (5,390)
4th	107	149	67.8 (6,920)	48.6 (4,960)
5th	115	160	62.8 (6,410)	45.1 (4,600)
6th	122	170	58.5 (5,970)	41.9 (4,280)
7th ³	130	181	54.8 (5,590)	39.3 (4,010)

DRUM WIRE ROPE CAPACITIES

Wire rope layer	Main and auxiliary drum grooved lagging	
	19 mm wire rope	
	Rope per layer	Total wire rope
	m	m
1	34.2	34.2
2	37.3	71.5
3	40.3	111.8
4	43.4	155.2
5	46.4	201.6
6	49.5	251.1
7	52.6	303.7

- Maximum permissible line pull wire strength.
Main & Auxiliary: 64.7 kN (6,600 kgf) with 7 x 39 class rope.

1. Line speed based only on hook block, not loaded.
2. Developed by machinery with each layer of wire rope, but not based on rope strength or other limitations in machinery or equipment.
3. Eighth layer of wire rope are not recommended for hoisting operations.

DRUM DIMENSIONS

Root diameter	362 mm
Length	600 mm
Flange diameter	657 mm

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

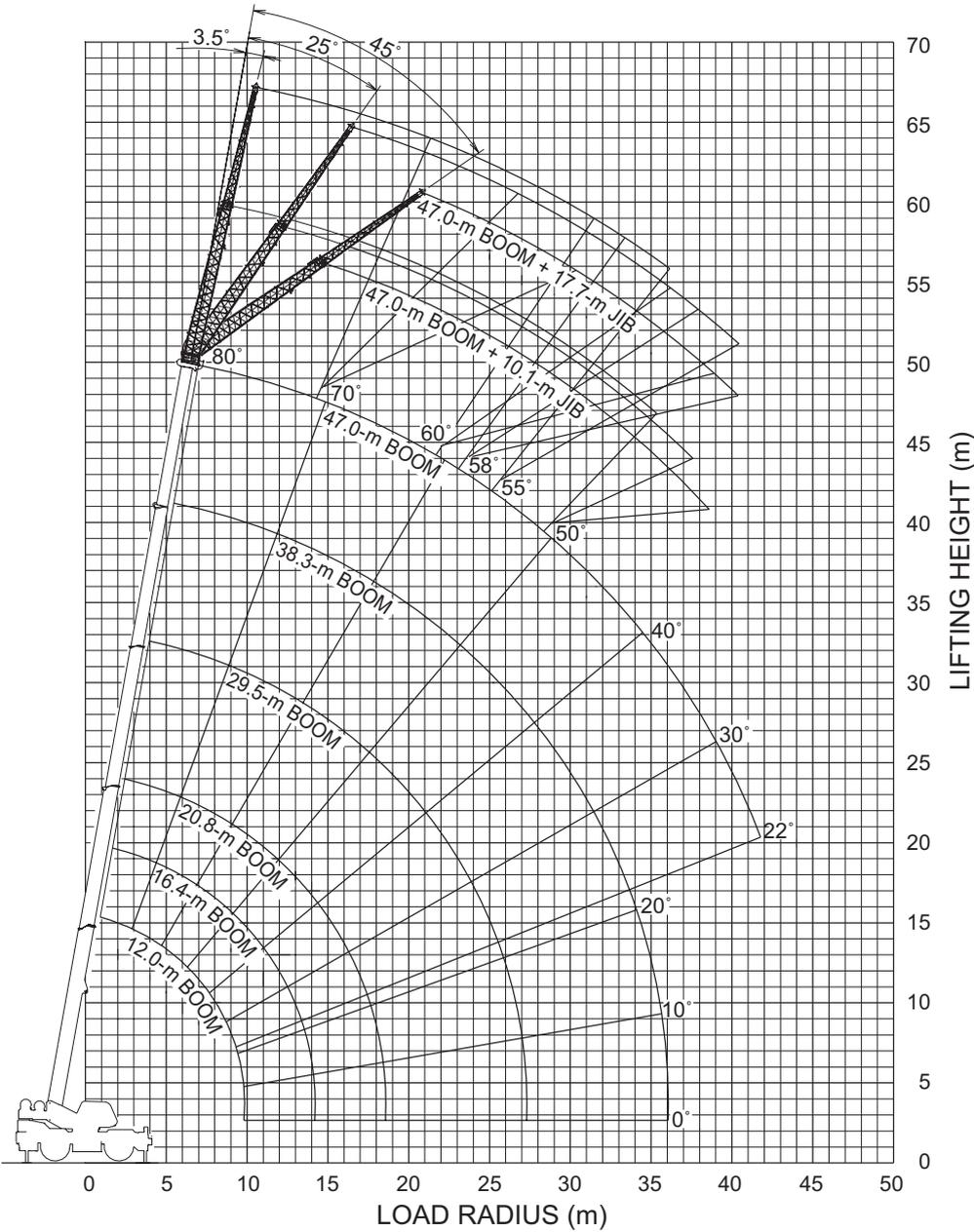
Bull Dozer

Vibro Roller
Baby Roller

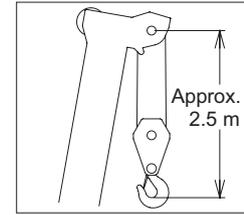
Motor Grader

Working Range Chart

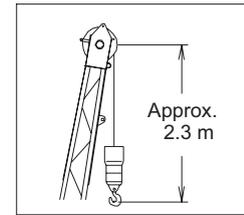
Telescoping mode I



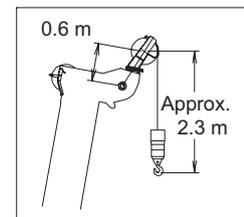
BOOM



JIB

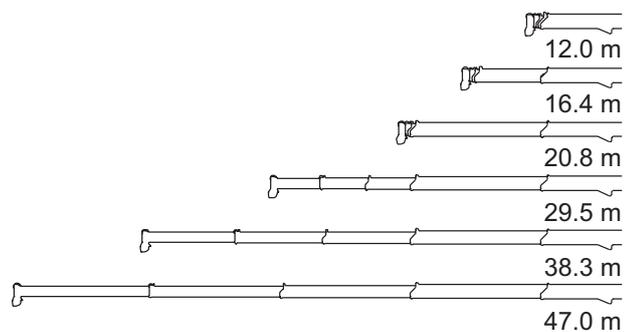


SINGLE TOP



The above lifting height and boom angle are based on a straight (unloaded) boom and machine standing level on firm supporting surface. Allowance should be made for boom deflection obtained under loaded conditions. The above working range is shown on condition with outriggers fully (7.3 m) extended.

Boom Length



80t
GR-800EX

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

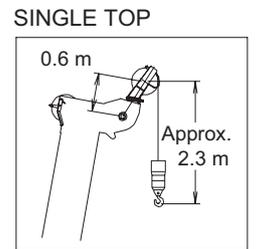
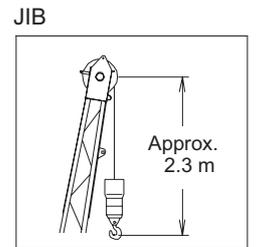
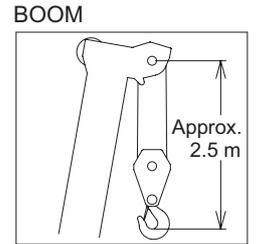
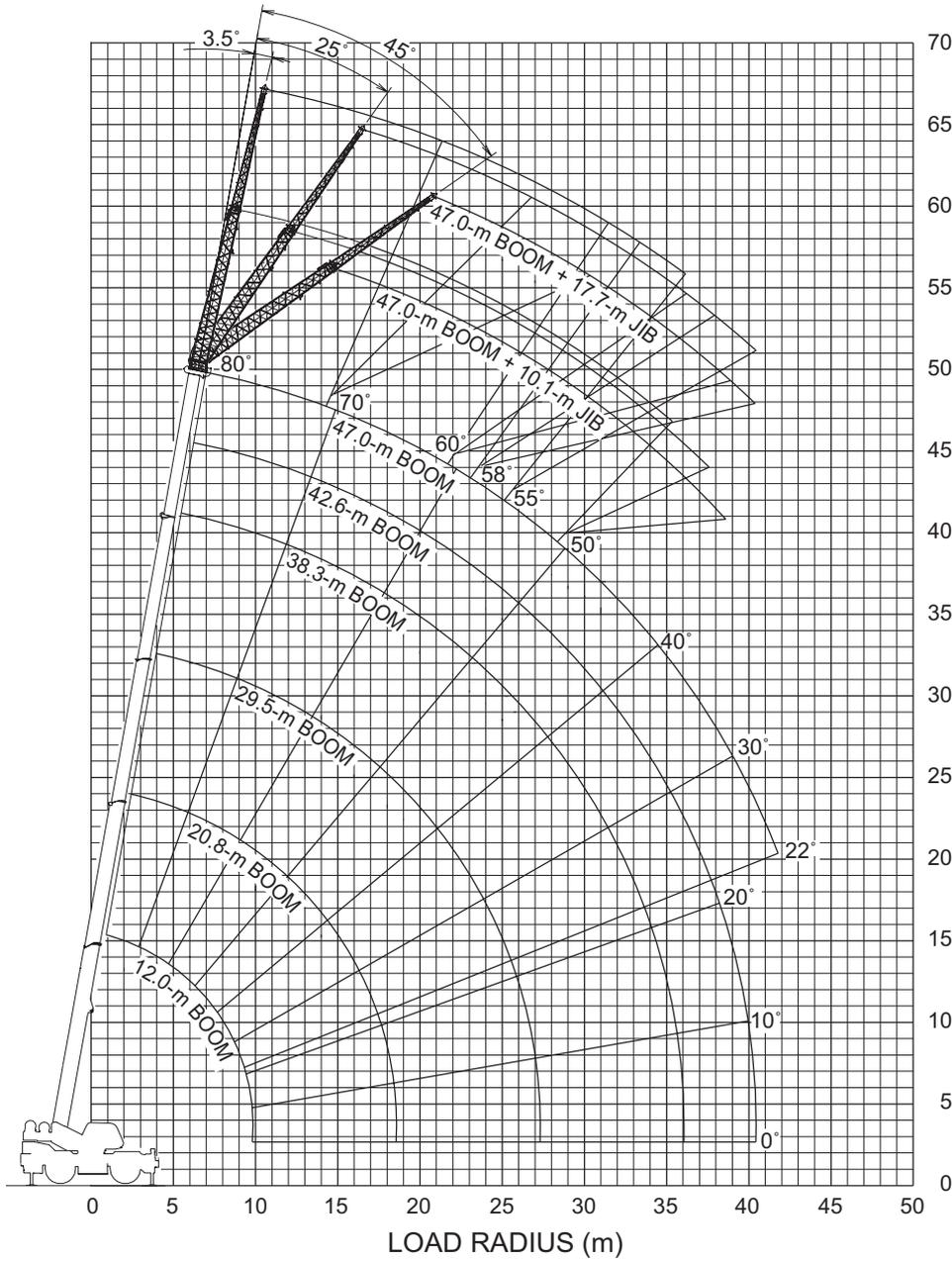
Vibro Roller

Baby Roller

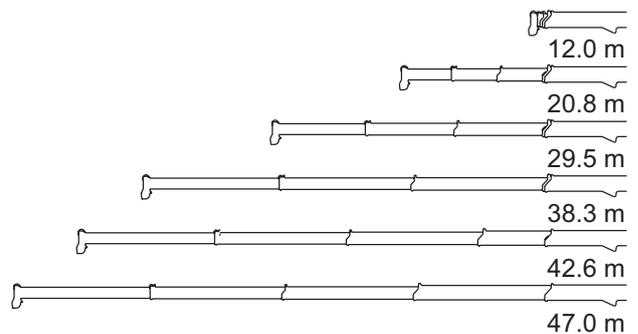
Motor Grader

Working Range Chart

Telescoping mode II



Boom Length



The above lifting height and boom angle are based on a straight (unloaded) boom and machine standing level on firm supporting surface. Allowance should be made for boom deflection obtained under loaded conditions. The above working range is shown on condition with outriggers fully (7.3 m) extended.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

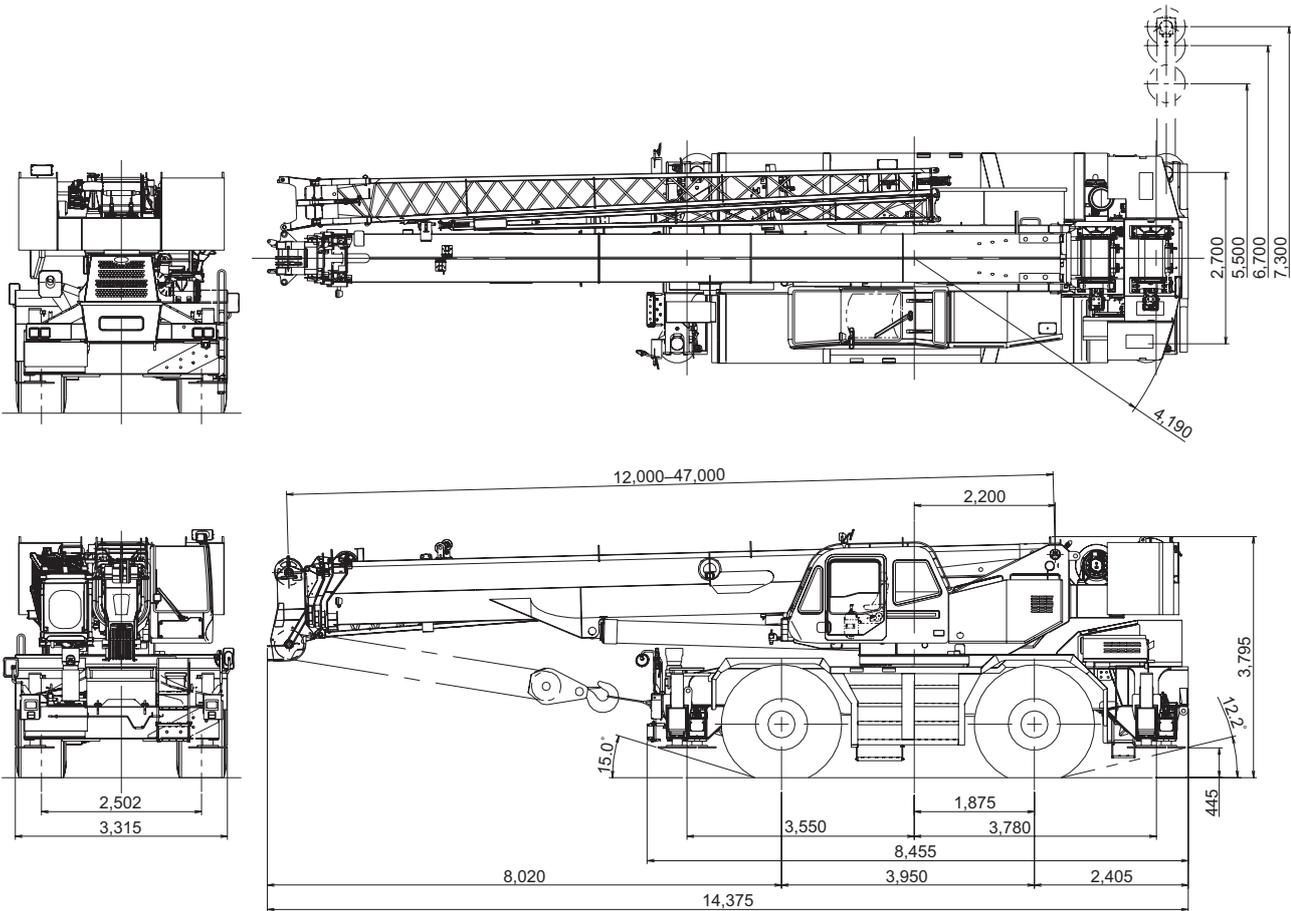
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Dimensions

80t
GR-800EX



Note : Dimension is with boom angle at -1.5 degree.

GENERAL DIMENSIONS

Turning radius (29.5 - 25 Tires)	
4 wheel steer	6.8 m
2 wheel steer	11.9 m

Overall length	approx. 14,375 mm
Overall width	approx. 3,315 mm
Overall height	approx. 3,795 mm

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

All Terrain Crane 160t ATF160G-5

Manual PDF

All Terrain Crane
160t ATF-160G-5
(TADANO)



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

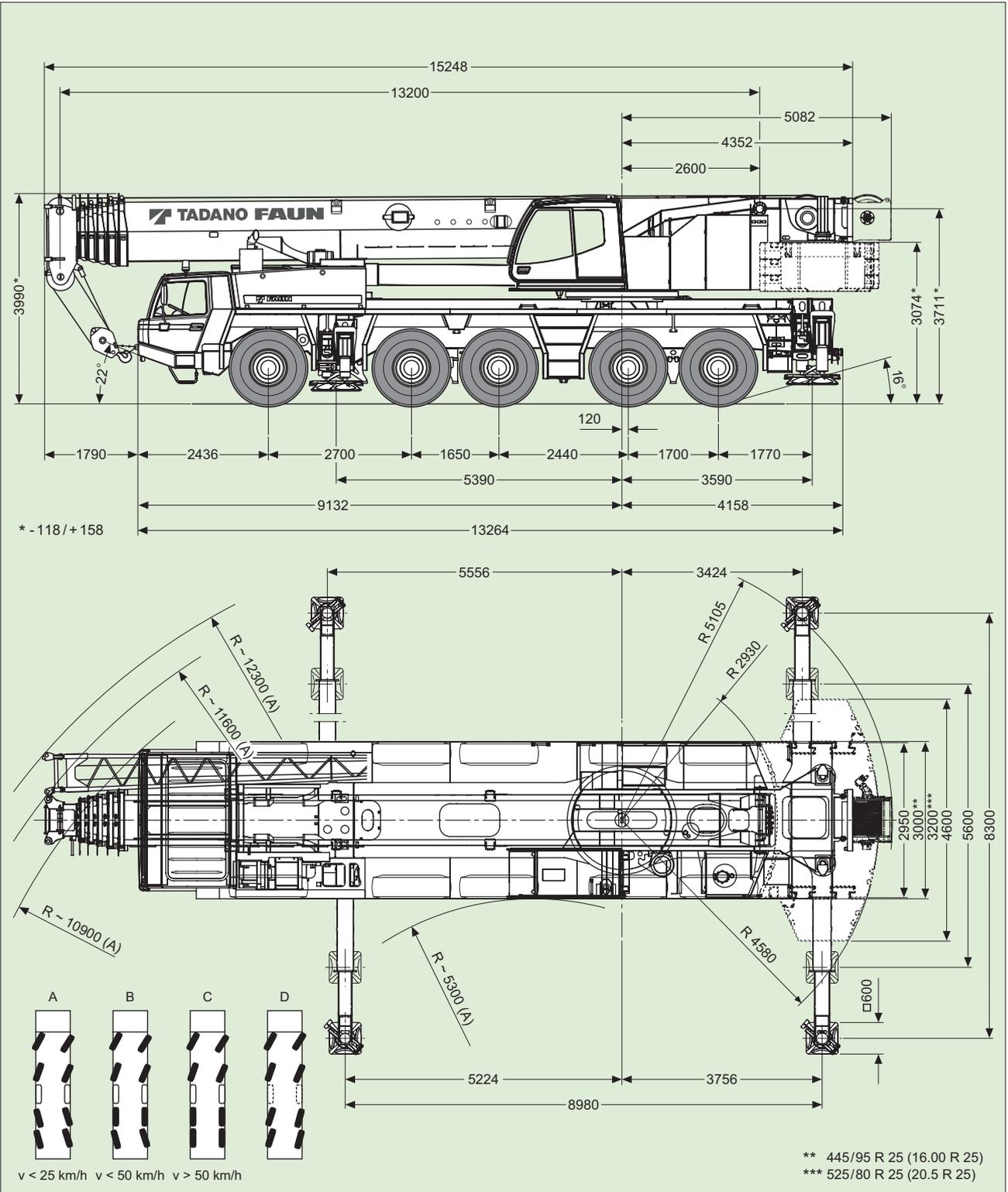
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Dimensions

445/95 R 25
(16.00 R 25)



Crawler Crane

- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2

Rough Terrain Crane

- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL
- 60t GR-600EX
- 80t GR-800EX

All Terrain Crane

- 160t ATF160G-5
- 200t LTM1200-5.1
- 220t ATF220G-5

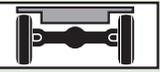
Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Weights / Working Speeds

	Achse / Axle Essieu / Eje	1	2	3	4	5	Gesamtgewicht / Total weight Poids total / Peso total
	(t)	12	12	12	12	12	60*

* Incl. 1 t Gegengewicht, 5,4 m / 13,2 m Auslegerverlängerung, 25 t Unterflasche, 10 t Hakengeschirr, Antrieb 10 x 8, Bereifung 445/95 R 25 (16.00 R 25).

* Incl. 1 t counterweight, 5.4 m / 13.2 m boom extension, 25 t hook block, 10 t swivel hook, drive 10 x 8, tyres 445/95 R 25 (16.00 R 25).

* Incl. de 1 t contrepoids, 5,4 m / 13,2 m flèche, 25 t moufle, 10 t élingues, entraînement 10 x 8, pneus 445/95 R 25 (16.00 R 25).

* Incl. contrapeso de 1 t, 5,4 m / 13,2 m plumín, 25 t gancho, 10 t gancho de bola, tracción 10 x 8, neumáticos 445/95 R 25 (16.00 R 25).

	Traglast / Lifting capacity / Force de levage / Capacidad de elevación	Rollen / Sheaves Pulies / Poleas	Stränge / Parts of line Brins / Ramales de cable	Gewicht / Weight Poid / Peso
		160 t*	9	19
	125 t*	7	15	1200 kg
	80 t*	5	11	800 kg
	63 t*	3	7	600 kg
	63 t	3	7	600 kg
	25 t	1	3	300 kg
	10 t	-	1	300 kg

* Doppelhaken

* Rams horn

* Moufle avec crochet marin

* Gancho doble



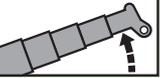
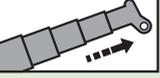
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	R1	R2	
	445/95 (16.00) km/h	3	3	4	4	5	7	8	9	11	14	17	20	24	30	35	42	3	
	6	7	8	10	12	15	18	21	26	31	38	46	56	68	80	85	6	7	47%

* Mit Geländeübersetzung

* Off road range

* Avec mode tout terrain

* Con transmisión todo terreno

V+ 	Stufenlos Infinitely variable Progressivement variable Infinitamente variable	Seil Rope Câble Cable	Max. Seilzug Max. single line pull Effort maxi au brin simple Trio máximo por ramal
	0- 130 m/min für einfachen Strang single line au brin simple ramal simple	21 mm / 310 m	85 kN
	0-130 m/min für einfachen Strang single line au brin simple ramal simple	21 mm / 250 m	85 kN
	0-1.8 min ⁻¹		
	-1.5– +84	ca. 50 s approx. 50 s env. 50 s aproximadamente 50 s	
	13.2 m –60.0 m	ca. 400 s approx. 400 s env. 400 s aproximadamente 400 s	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
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180t
CKE1800

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CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

Excavator

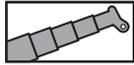
Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

Lifting Capacities



51 t

DIN / ISO / EN

→ m	13.2 m*	13.2 m	17.6 m	21.9 m	26.3 m	30.6 m	35.0 m	39.3 m	43.7 m	48.0 m	52.4 m	56.7 m	60.0 m
3.0	160.0**	140.7**	120.0**	115.6**	89.1								
3.5	149.8**	129.6**	120.0**	115.6**	89.1	74.2							
4.0	138.7**	120.0**	120.0**	115.6**	89.1	73.1							
4.5	129.1**	111.6**	111.8**	111.5**	89.1	68.9	55.1						
5.0	120.5**	101.1	101.3	101.0	89.1	65.1	55.1						
6.0	99.7	88.8	89.0	88.6	89.1	58.6	53.5	41.4	33.4				
7.0	83.9	78.4	78.6	79.0	79.1	53.2	48.7	41.4	33.4	26.9			
8.0	72.1	70.0	70.2	72.0	71.4	48.6	45.1	41.4	33.4	26.9	21.6		
9.0	62.9	62.9	63.1	63.6	63.0	44.7	43.6	38.4	33.4	26.9	21.6	17.0	
10.0	50.6	50.6	55.7	56.8	56.2	41.4	41.6	35.7	32.3	26.9	21.6	17.0	14.0
11.0			50.6	51.2	50.6	38.6	39.6	33.4	30.3	26.0	21.2	17.0	14.0
12.0			46.0	46.5	46.0	35.8	37.6	31.2	28.3	25.1	20.9	17.0	14.0
14.0			38.6	39.1	38.6	32.1	34.2	27.6	25.2	22.9	19.2	16.4	14.0
16.0				32.2	31.5	29.1	31.3	24.6	22.5	21.0	17.6	15.1	14.0
18.0				26.6	26.0	26.6	27.9	22.2	20.3	19.0	16.3	14.0	13.0
20.0					21.8	24.3	23.6	20.1	18.4	17.3	15.1	13.0	12.2
22.0					20.3	21.0	20.3	18.4	16.8	15.8	14.1	12.2	11.4
24.0						18.3	17.6	16.9	15.4	14.5	13.2	11.4	10.7
26.0						16.1	15.4	14.8	14.2	13.3	12.4	10.8	9.9
28.0							13.6	13.2	12.9	12.3	11.7	10.1	9.0
30.0							12.0	12.6	11.4	11.4	11.0	9.6	8.3
32.0								11.4	10.0	10.2	10.2	9.1	7.6
34.0								10.2	8.9	9.6	9.5	8.6	7.0
36.0								9.2	8.5	9.0	8.5	8.2	6.5
38.0									8.2	8.1	7.6	7.9	6.0
40.0									7.8	7.3	7.3	7.2	5.4
42.0										6.5	6.9	6.5	5.0
44.0										6.0	6.3	5.9	4.6
46.0											5.7	5.3	4.2
48.0											5.2	4.7	3.9
50.0												4.2	3.5
52.0												3.8	3.2
54.0													2.9
56.0													2.6

* Over rear

** With additional lifting equipment

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

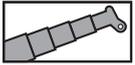
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

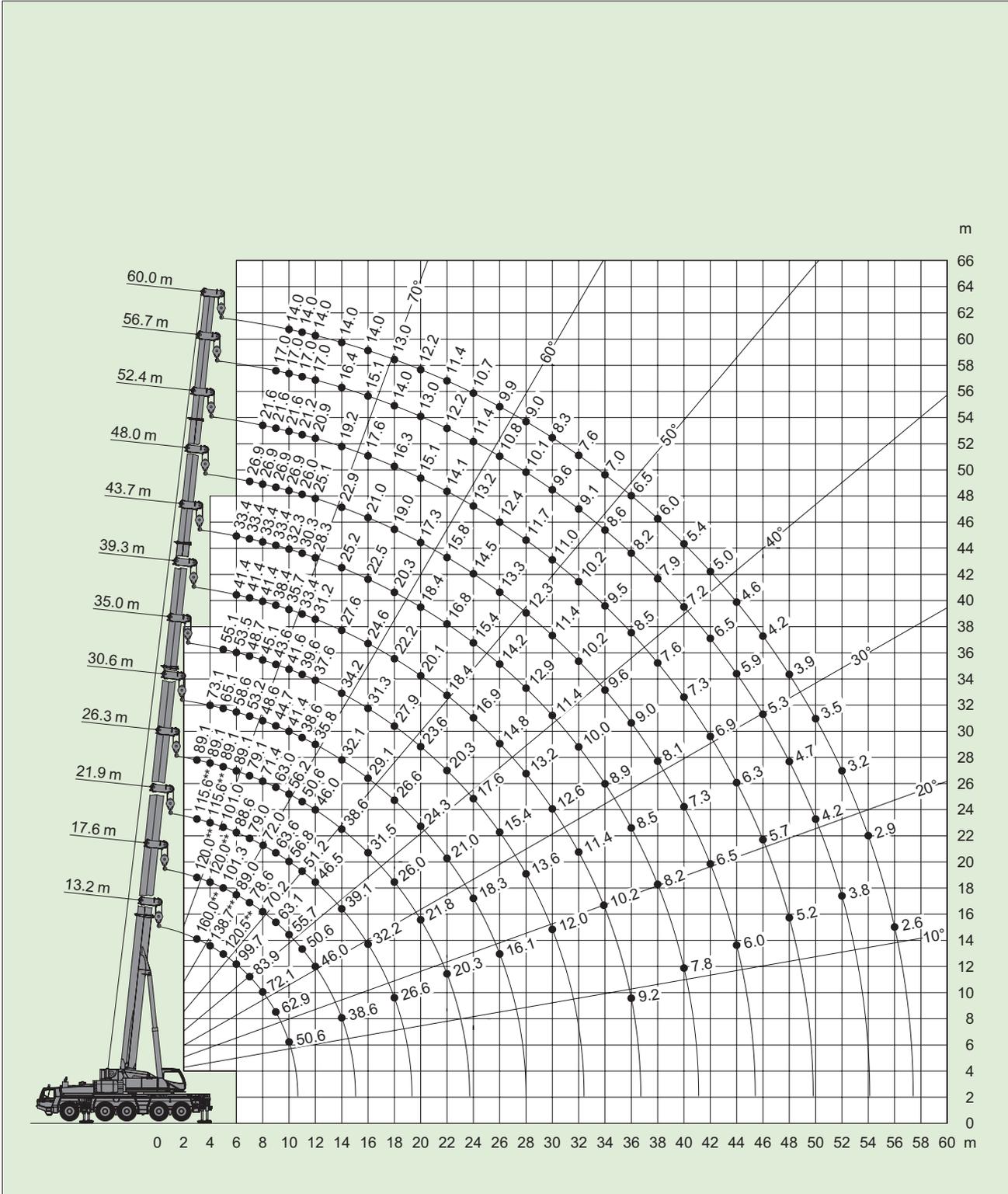
Lifting Heights



51 t

DIN / ISO / EN

160t
ATF160G-5



** With additional lifting equipment

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

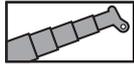
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



37 t

DIN / ISO / EN

→ m	13.2 m*	13.2 m	17.6 m	21.9 m	26.3 m	30.6 m	35.0 m	39.3 m	43.7 m	48.0 m	52.4 m	56.7 m	60.0 m
3.0	160.0**	140.0**	120.0**	115.6**	89.1								
3.5	149.8**	129.0**	120.0**	115.6**	89.1	74.2							
4.0	132.8**	119.2**	120.0**	115.6**	89.1	73.1							
4.5	121.3**	110.4**	110.8**	111.0**	89.1	68.9	55.1						
5.0	109.2	100.3**	100.5	99.8	89.1	65.1	55.1						
6.0	90.7	90.1	89.8	89.4	89.1	58.6	53.5	41.4	33.4				
7.0	77.4	77.0	77.2	77.8	77.1	53.2	48.7	41.4	33.4	26.9			
8.0	67.2	67.0	67.1	67.6	67.0	48.6	45.1	41.4	33.4	26.9	21.6		
9.0	59.3	59.3	59.1	59.7	59.1	44.7	43.6	38.4	33.4	26.9	21.6	17.0	
10.0	50.6	50.6	52.7	53.3	52.7	41.4	41.6	35.7	32.3	26.9	21.6	17.0	14.0
11.0			47.0	48.0	47.2	38.6	39.6	33.4	30.3	26.0	21.2	17.0	14.0
12.0			40.8	41.7	40.9	35.8	37.6	31.2	28.3	25.1	20.9	17.0	14.0
14.0			31.4	32.3	31.6	32.1	33.7	27.6	25.2	22.9	19.2	16.4	14.0
16.0				25.9	26.1	28.0	27.2	24.6	22.5	21.0	17.6	15.1	14.0
18.0				21.7	23.5	23.2	22.4	21.7	20.3	19.0	16.3	14.0	13.0
20.0					19.9	19.6	18.9	18.2	18.1	17.3	15.1	13.0	12.2
22.0					17.0	16.7	16.0	15.9	15.3	15.5	14.1	12.2	11.4
24.0						14.4	13.7	14.4	13.0	13.2	13.2	11.4	10.7
26.0						12.5	11.8	12.5	11.1	12.0	11.8	10.8	9.9
28.0							10.3	10.9	10.4	10.7	10.2	10.1	9.0
30.0							9.0	9.6	9.9	9.4	9.4	9.3	8.3
32.0								8.5	8.8	8.4	8.7	8.2	7.6
34.0								7.5	7.8	7.9	7.7	7.2	7.0
36.0								6.6	7.0	7.2	6.8	6.3	6.4
38.0									6.7	6.4	6.1	5.6	5.6
40.0									6.1	5.8	5.4	4.9	4.9
42.0										5.2	4.8	4.3	4.3
44.0										4.6	4.3	3.8	3.8
46.0											3.8	3.3	3.3
48.0											3.3	2.8	2.9
50.0												2.4	2.5
52.0												2.1	2.1
54.0													1.7
56.0													1.4

* Over rear

** With additional lifting equipment

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

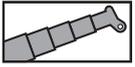
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

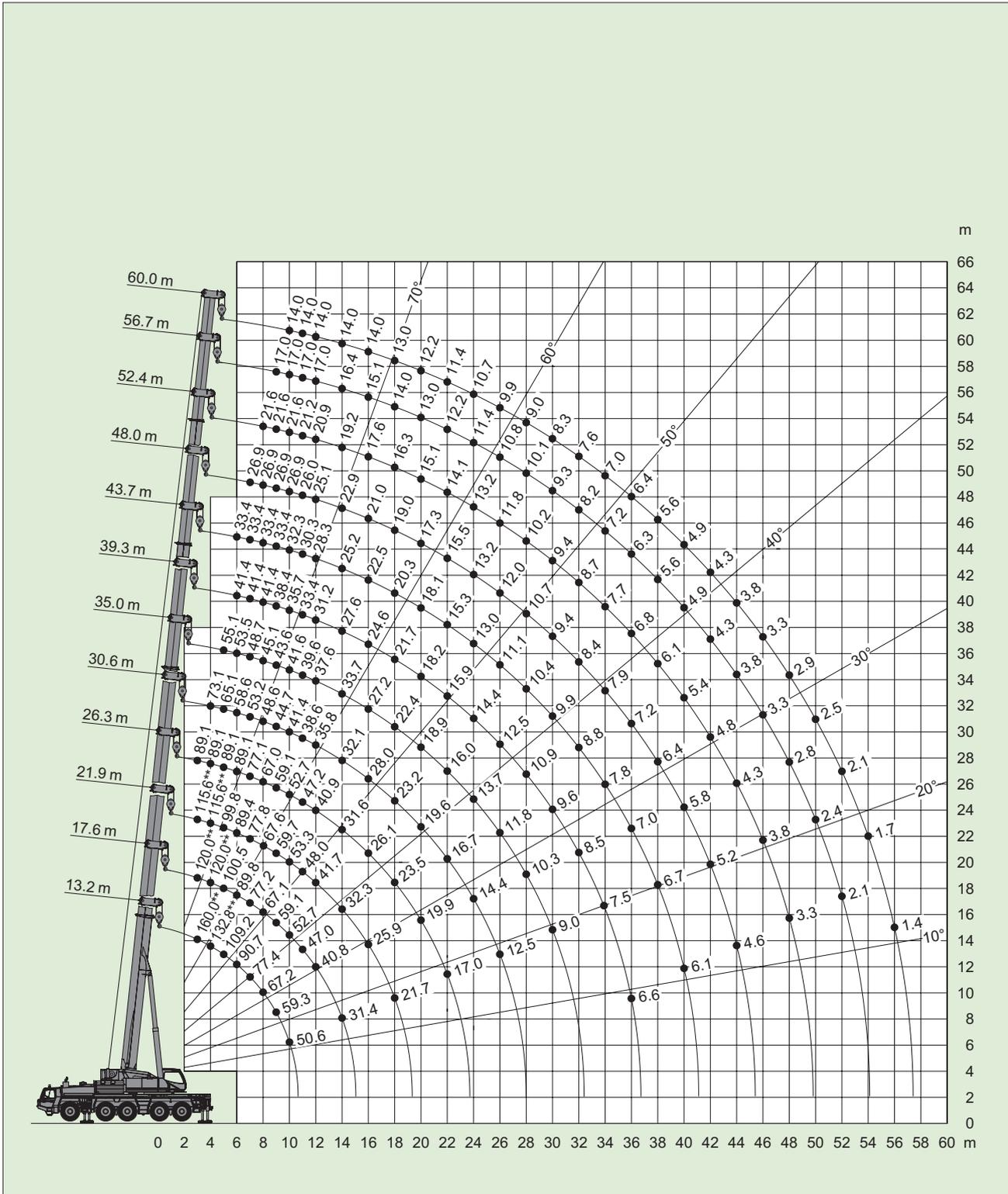
Lifting Heights



37 t

DIN / ISO / EN

160t
ATF160G-5



** With additional lifting equipment

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

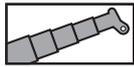
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



25t

DIN / ISO / EN

→ m	13.2 m*	13.2 m	17.6 m	21.9 m	26.3 m	30.6 m	35.0 m	39.3 m	43.7 m	48.0 m	52.4 m	56.7 m	60.0 m	
3.0	160.0**	140.0**	120.0**	115.6**	89.1									
3.5	149.8**	129.0**	120.0**	115.6**	89.1	74.2								
4.0	128.9**	119.2**	120.0**	115.6**	89.1	73.1								
4.5	114.7**	114.0**	114.5**	113.8**	89.1	68.9	55.1							
5.0	103.2	103.2	103.1	102.4	89.1	65.1	55.1							
6.0	85.8	85.8	85.6	86.2	85.5	58.6	53.5	41.4	33.4					
7.0	73.1	73.1	72.9	73.5	72.8	53.2	48.7	41.4	33.4	26.9				
8.0	63.5	63.5	63.3	63.8	63.2	48.6	45.1	41.4	33.4	26.9	21.6			
9.0	54.7	54.7	54.5	55.7	54.8	44.7	43.6	38.4	33.4	26.9	21.6	17.0		
10.0	45.0	45.0	45.0	46.0	45.2	41.4	41.6	35.7	32.3	26.9	21.6	17.0	14.0	
11.0			37.9	38.9	38.1	37.7	39.6	33.4	30.3	26.0	21.2	17.0	14.0	
12.0			32.7	33.7	32.9	35.6	35.2	31.2	28.3	25.1	20.9	17.0	14.0	
14.0			26.0	26.1	28.3	28.0	27.2	26.4	25.2	22.9	19.2	16.4	14.0	
16.0				22.5	22.7	22.3	21.6	20.8	20.7	21.0	17.6	15.1	14.0	
18.0				18.3	18.5	18.2	17.4	18.2	16.6	16.9	16.3	14.0	13.0	
20.0					15.4	15.1	14.4	15.1	13.6	14.8	14.3	13.0	12.2	
22.0					13.0	12.7	12.0	12.7	12.6	12.4	12.1	12.2	11.4	
24.0						10.8	10.1	10.8	11.2	10.8	11.0	10.5	10.5	
26.0							9.2	9.4	9.2	9.6	9.9	9.5	9.0	
28.0								8.9	8.1	8.9	8.5	8.2	7.6	7.7
30.0								8.1	7.6	7.8	7.4	7.1	6.5	6.6
32.0									7.0	6.8	6.5	6.1	5.6	5.6
34.0									6.2	6.0	5.7	5.3	4.8	4.8
36.0									5.4	5.3	4.9	4.6	4.1	4.1
38.0										4.7	4.3	3.9	3.5	3.5
40.0										4.1	3.7	3.4	2.9	2.9
42.0											3.2	2.9	2.4	2.4
44.0											2.8	2.4	2.0	2.0
46.0												2.0	1.6	1.6
48.0												1.7	1.2	1.2

* Over rear

** With additional lifting equipment

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

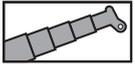
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

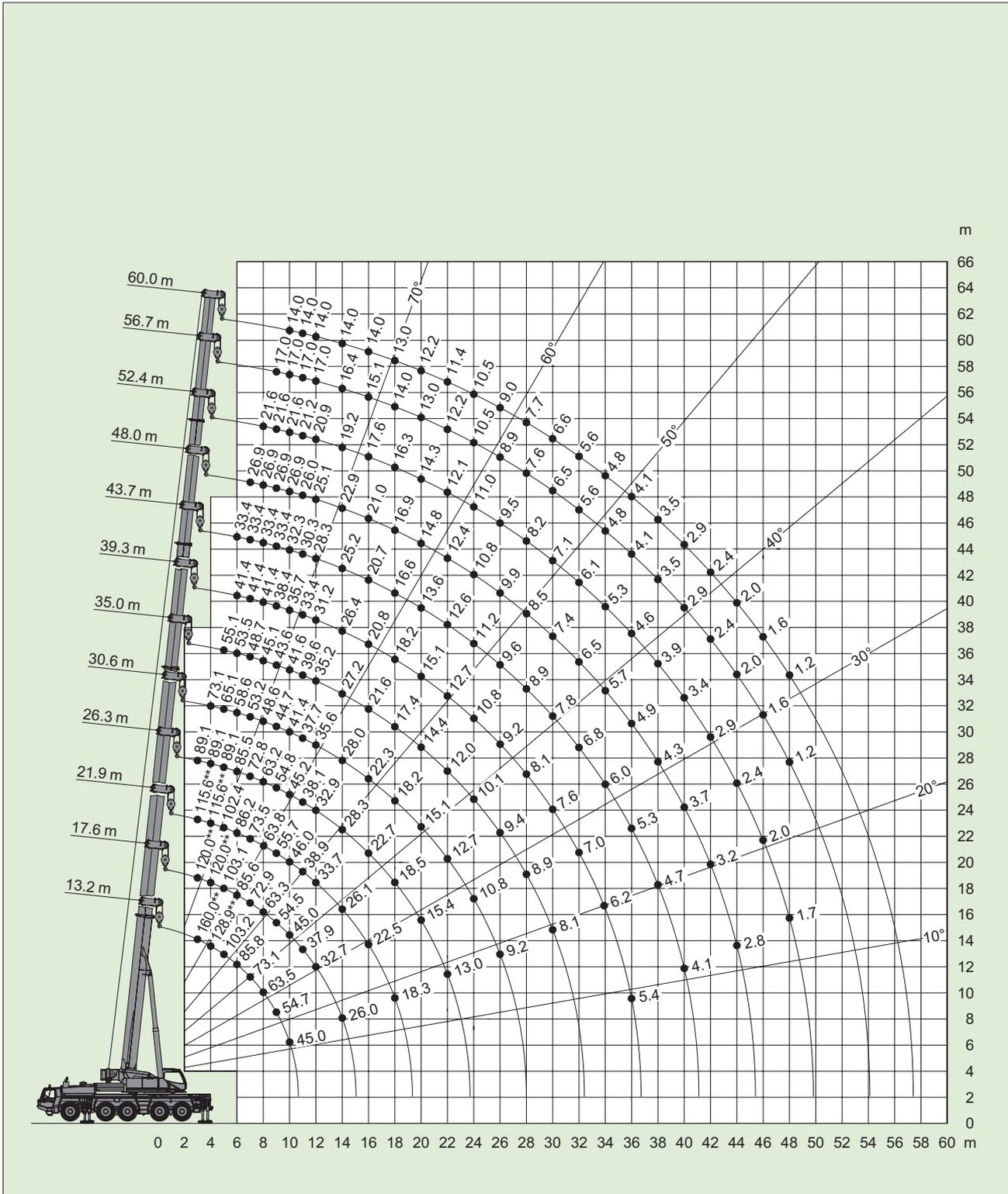
Lifting Heights



25t

DIN/ISO/EN

160t
ATF160G-5



** With additional lifting equipment

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

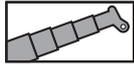
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



13t

DIN / ISO / EN

→ m	13.2 m*	13.2 m	17.6 m	21.9 m	26.3 m	30.6 m	35.0 m	39.3 m	43.7 m	48.0 m	52.4 m	56.7 m	60.0 m
3.0	160.0**	140.0**	120.0**	115.6**	89.1								
3.5	138.5**	128.6**	120.0**	115.6**	89.1	74.2							
4.0	121.6**	118.7**	120.0**	115.6**	89.1	73.1							
4.5	108.2	108.2	108.0	107.3	89.1	68.9	55.1						
5.0	97.3	97.3	97.1	96.5	89.1	65.1	55.1						
6.0	80.8	80.8	80.6	81.2	80.5	58.6	53.5	41.4	33.4				
7.0	68.8	68.8	68.6	69.2	65.5	53.2	48.7	41.4	33.4	26.9			
8.0	53.4	53.4	53.3	54.6	53.6	48.6	45.1	41.4	33.4	26.9	21.6		
9.0	42.3	42.3	42.2	43.4	42.5	42.2	43.6	38.4	33.4	26.9	21.6	17.0	
10.0	34.5	34.5	34.4	35.5	36.9	38.2	37.2	35.7	32.3	26.9	21.6	17.0	14.0
11.0			29.5	31.2	32.5	32.1	31.1	30.2	30.1	26.0	21.2	17.0	14.0
12.0			26.4	27.7	27.9	27.5	26.6	25.7	25.6	25.1	20.9	17.0	14.0
14.0			19.7	20.9	21.1	20.7	19.9	20.8	19.0	19.3	19.2	16.4	14.0
16.0				16.3	16.5	16.2	15.4	16.2	16.0	15.9	15.3	15.1	14.0
18.0				13.2	14.0	12.9	12.8	13.0	13.4	13.7	13.2	12.6	12.7
20.0					11.6	10.7	11.8	11.2	11.6	11.2	10.8	10.2	10.3
22.0					9.7	9.8	10.0	9.9	9.7	9.3	8.9	8.3	8.4
24.0						8.3	8.5	8.3	8.2	7.8	7.4	6.8	6.9
26.0						7.1	7.2	7.1	6.9	6.5	6.1	5.6	5.6
28.0							6.2	6.0	5.9	5.5	5.1	4.6	4.6
30.0							5.3	5.1	5.0	4.6	4.3	3.7	3.8
32.0								4.4	4.2	3.9	3.5	3.0	3.0
34.0								3.7	3.6	3.2	2.9	2.4	2.4
36.0								3.2	3.0	2.7	2.3	1.8	1.8
38.0									2.5	2.2	1.8	1.3	1.3
40.0									2.1	1.7	1.4		
42.0										1.3			
44.0										1.0			

* Over rear

** With additional lifting equipment

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

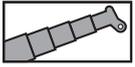
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

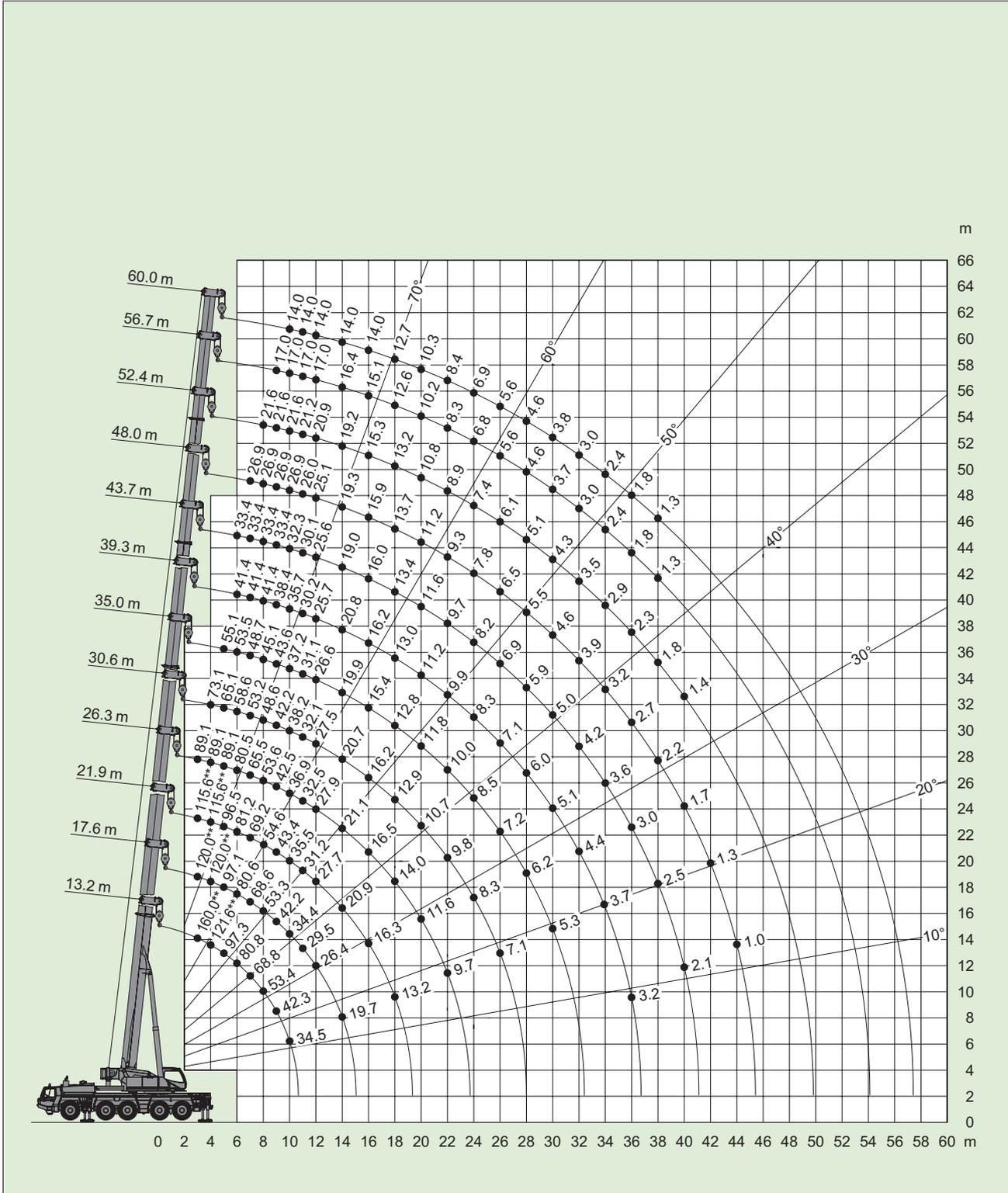
Lifting Heights



13t

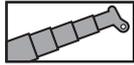
DIN/ISO/EN

160t
ATF160G-5



* With additional lifting equipment

Lifting Capacities



0 t

DIN / ISO / EN

→ m	13.2 m*	13.2 m	17.6 m	21.9 m	26.3 m	30.6 m	35.0 m	39.3 m	43.7 m	48.0 m	52.4 m	56.7 m	60.0 m
3.0	150.0**	140.0**	120.0**	115.6**	89.1								
3.5	129.4**	129.4**	120.0**	115.6**	89.1	74.2							
4.0	113.6**	113.6**	113.4**	112.6**	89.1	73.1							
4.5	101.0	101.0	100.8	100.3	89.1	68.9	55.1						
5.0	90.9	90.9	90.7	91.2	89.1	65.1	55.1						
6.0	72.9	72.9	72.8	74.6	73.1	58.6	53.5	41.4	33.4				
7.0	49.9	49.7	49.5	51.0	49.8	48.6	48.7	41.4	29.0	26.9			
8.0	37.1	36.0	35.9	38.4	41.5	40.9	39.6	38.3	24.3	23.0	21.6		
9.0	29.0	27.2	30.1	31.7	32.0	31.5	30.3	29.2	22.9	20.7	18.9	17.0	
10.0	23.2	21.2	24.0	25.4	25.6	25.2	24.1	25.2	21.6	19.0	17.6	16.1	14.0
11.0			19.6	20.9	21.1	20.7	19.7	20.8	20.4	16.6	15.4	14.0	13.6
12.0			16.4	18.2	18.9	17.5	17.4	17.5	18.0	14.6	13.5	12.3	11.9
14.0			11.7	13.0	14.0	14.3	14.4	14.2	14.0	11.5	10.6	9.5	9.3
16.0				9.8	10.7	11.0	11.1	10.9	10.7	9.2	8.4	7.5	7.3
18.0				7.5	8.4	8.6	8.8	8.6	8.4	7.4	6.7	5.8	5.7
20.0					6.6	6.8	7.0	6.8	6.6	6.0	5.4	4.5	4.4
22.0					5.3	5.5	5.6	5.5	5.3	4.9	4.3	3.5	3.4
24.0						4.4	4.5	4.4	4.2	3.8	3.4	2.6	2.5
26.0						3.5	3.6	3.5	3.3	2.9	2.5	1.9	1.8
28.0							2.9	2.7	2.6	2.2	1.8		
30.0							2.3	2.1	2.0	1.6			
32.0								1.6					

* Over rear

** With additional lifting equipment

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

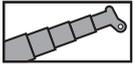
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

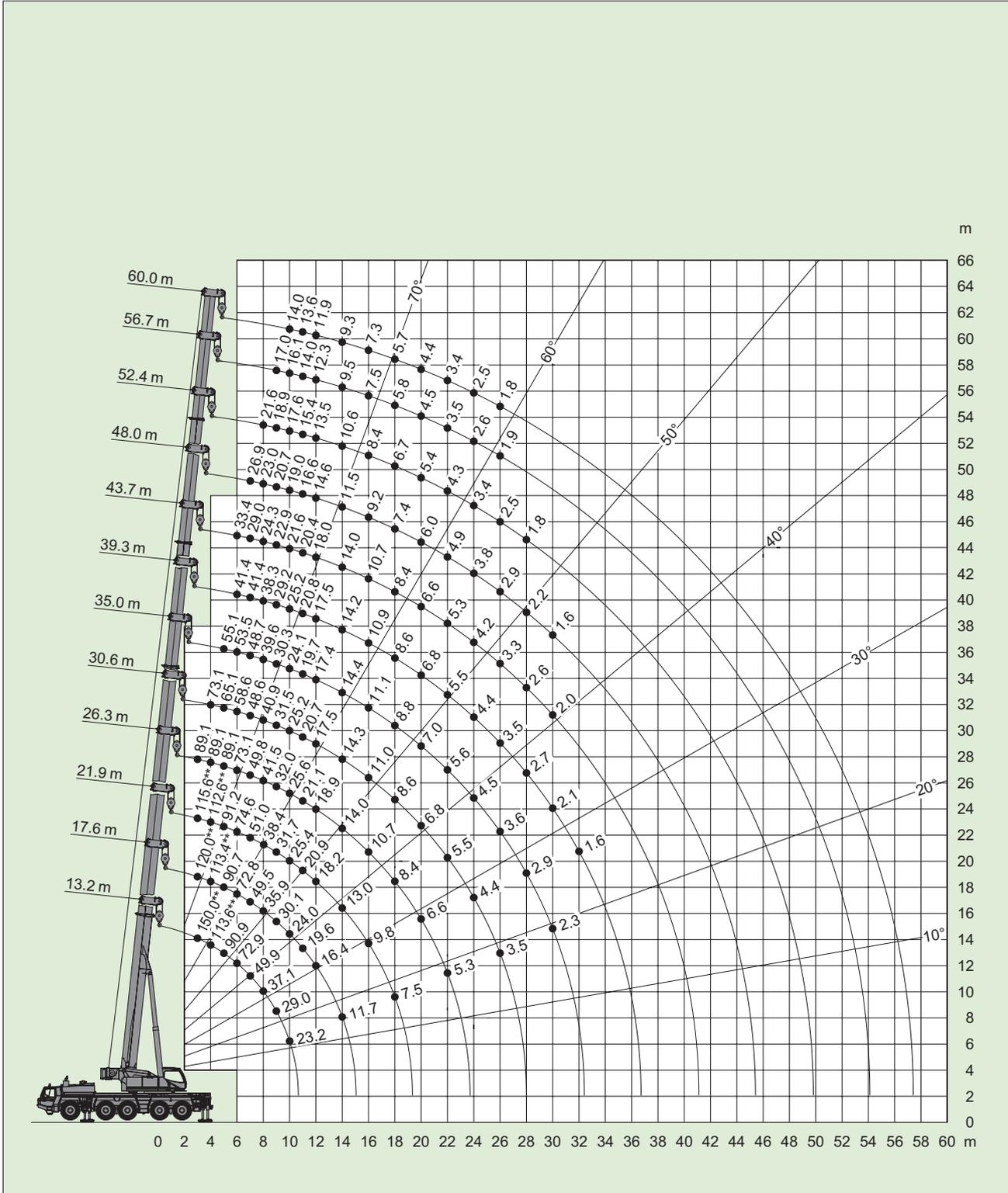
Lifting Heights



0t

DIN / ISO / EN

160t
ATF160G-5



** Mit Zusatzhubausrüstung / ** With additional lifting equipment / ** Avec équipement supplémentaire / ** Con equipo adicional

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

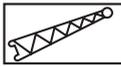
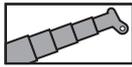
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



51t

DIN / ISO / EN

	13.2 m + 5.4 m			56.7 m + 5.4 m			60.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	33.2								
3.5	31.4	23.7							
4.0	30.6	22.5							
4.5	29.1	22.2	18.5						
5.0	28.4	21.6	18.2						
6.0	26.0	20.5	17.9						
7.0	24.5	19.8	17.5						
8.0	22.9	19.0	17.2						
9.0	21.6	18.5	16.9						
10.0	20.5	18.0	16.8	10.7					
11.0	19.6	17.5	16.8	10.3			9.6		
12.0	18.8	17.2	16.8	10.0	9.2		9.3	8.6	
14.0	17.5	16.8		9.4	8.7	8.2	8.7	8.1	7.7
16.0	16.8			8.8	8.2	7.8	8.2	7.7	7.3
18.0				8.4	7.8	7.5	7.8	7.3	7.0
20.0				7.9	7.5	7.2	7.4	7.0	6.7
22.0				7.5	7.2	6.9	7.0	6.7	6.4
24.0				7.2	6.9	6.6	6.7	6.4	6.2
26.0				6.8	6.6	6.4	6.4	6.1	6.0
28.0				6.5	6.3	6.2	6.1	5.9	5.8
30.0				6.3	6.0	5.9	5.8	5.6	5.5
32.0				6.0	5.8	5.7	5.6	5.4	5.3
34.0				5.8	5.6	5.5	5.4	5.2	5.1
36.0				5.6	5.4	5.3	5.2	5.0	5.0
38.0				5.4	5.2	5.2	5.0	4.9	4.8
40.0				5.2	5.1	5.0	4.9	4.7	4.7
44.0				4.9	4.8	4.8	4.6	4.5	4.4
48.0				4.7	4.6	4.6	4.3	4.2	4.2
52.0				3.8	3.9		3.8	3.9	3.9
56.0				3.0	2.9		3.0	3.0	
60.0							2.3	2.3	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

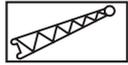
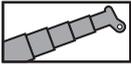
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

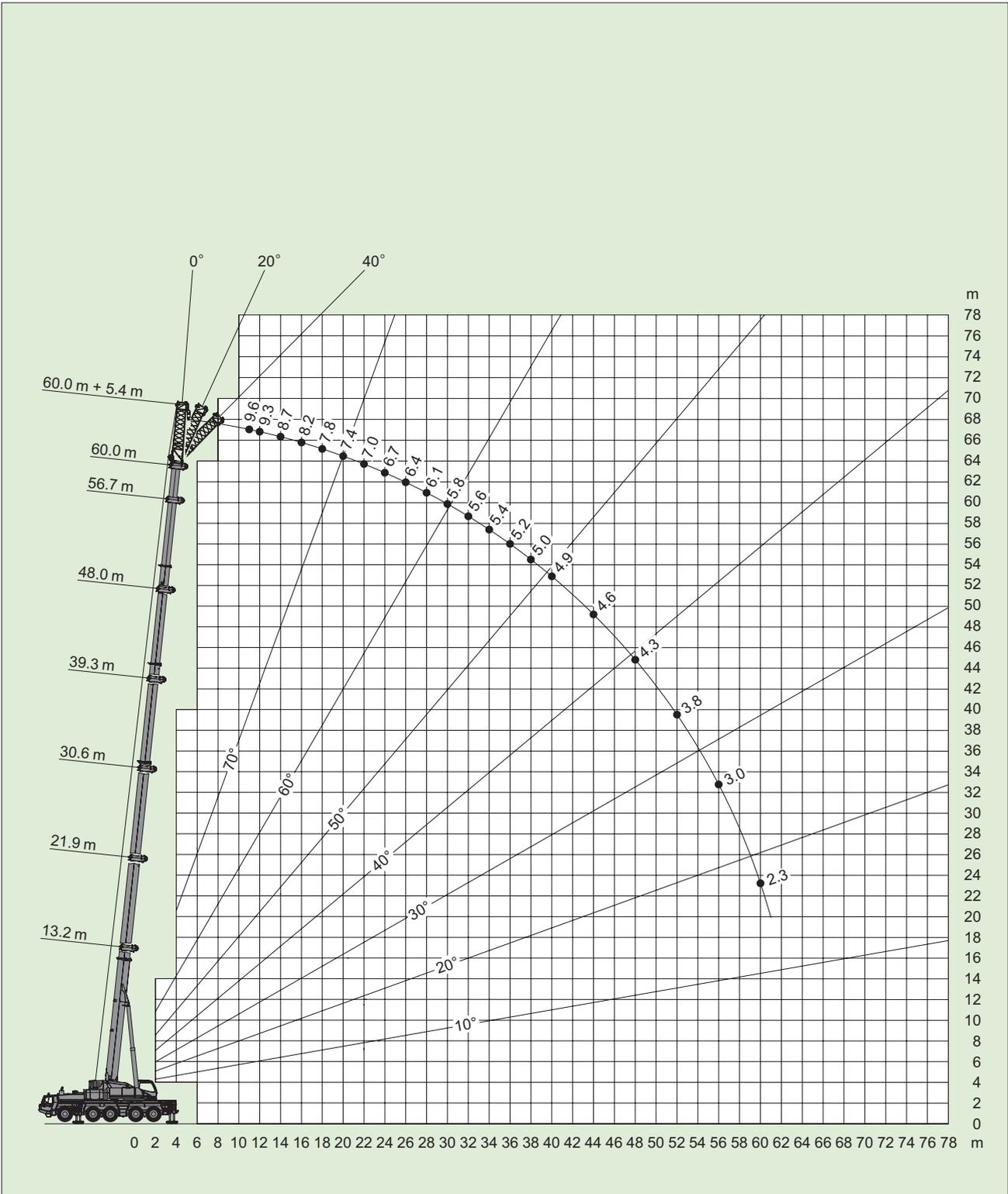
Lifting Heights



51 t

DIN/ISO/EN

160t
ATF160G-5



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

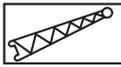
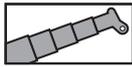
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



51t

DIN / ISO / EN

m	60.0 m + 13.2 m			60.0 m + 19.2 m			60.0 m + 25.2 m			60.0 m + 31.2 m			60.0 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
12.0	6.3			4.8											
14.0	6.3			4.8			3.6								
16.0	6.3			4.8			3.6					2.8			
18.0	6.3	5.3		4.8			3.6					2.8			2.1
20.0	6.0	5.2	4.4	4.8	4.4		3.6					2.8			2.0
22.0	5.7	5.0	4.3	4.8	4.2		3.6					2.7			1.9
24.0	5.5	4.9	4.2	4.6	4.0		3.6	3.1				2.7			1.9
26.0	5.2	4.7	4.1	4.4	3.9	3.5	3.6	3.0				2.6			1.8
28.0	5.0	4.5	4.1	4.2	3.7	3.4	3.6	2.9				2.5	2.0		1.7
30.0	4.8	4.3	4.0	4.1	3.6	3.3	3.4	2.9	2.5			2.5	2.0		1.7
32.0	4.6	4.2	3.9	3.9	3.4	3.2	3.3	2.8	2.5	2.4		2.4	1.9		1.6
34.0	4.5	4.1	3.8	3.8	3.3	3.1	3.2	2.7	2.4	2.3		2.3	1.9		1.6
36.0	4.3	3.9	3.7	3.6	3.2	3.0	3.0	2.7	2.4	2.3	1.8				1.5
38.0	4.1	3.8	3.6	3.5	3.1	2.9	2.9	2.6	2.3	2.2	1.8				1.5
40.0	4.0	3.7	3.5	3.4	3.0	2.8	2.8	2.5	2.3	2.2	1.8				1.4
44.0	3.7	3.5	3.4	3.2	2.8	2.7	2.6	2.3	2.2	2.1	1.7				1.4
48.0	3.5	3.3	3.2	3.0	2.7	2.6	2.5	2.2	2.1	2.0	1.6				1.3
52.0	3.3	3.1	3.1	2.8	2.6	2.4	2.3	2.1	2.0	1.9	1.5				1.2
56.0	3.1	3.0	2.9	2.6	2.4	2.3	2.2	2.0	1.9	1.8	1.4				1.2
60.0	2.7	2.9	2.8	2.5	2.3	2.3	2.1	1.9	1.8	1.7	1.4				1.1
64.0	2.1	2.2	2.1	2.3	2.2	2.2	1.9	1.7	1.7	1.6	1.3				1.1
68.0	1.6	1.6	1.3	1.8	1.9	1.9	1.7	1.5	1.6	1.5	1.2				1.0
72.0				1.3	1.3	1.2	1.4	1.3	1.5	1.4	1.2				
76.0							1.0	1.1	1.0	1.1	1.1				

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

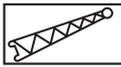
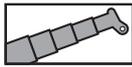
Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

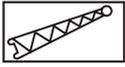
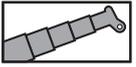


51t

DIN / ISO / EN

m	56.7 m + 13.2 m			56.7 m + 19.2 m			56.7 m + 25.2 m			56.7 m + 31.2 m			56.7 m + 37.2 m	
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°
11.0	7.5													
12.0	7.5			5.6			4.2							
14.0	7.5			5.6			4.2				3.2			
16.0	7.1	5.6		5.6			4.2				3.1			2.2
18.0	6.7	5.4		5.6			4.2				3.0			2.1
20.0	6.4	5.2	4.4	5.4	4.6		4.2				2.9			2.0
22.0	6.1	5.1	4.3	5.1	4.4		4.0				2.9			2.0
24.0	5.8	4.9	4.2	4.9	4.2		3.9	3.2			2.8			1.9
26.0	5.6	4.8	4.2	4.7	4.1	3.7	3.8	3.1			2.7			1.9
28.0	5.3	4.7	4.1	4.5	3.9	3.6	3.7	3.0			2.6	2.1		1.8
30.0	5.1	4.5	4.0	4.3	3.8	3.5	3.6	2.9	2.5		2.6	2.0		1.7
32.0	4.9	4.4	4.0	4.1	3.6	3.4	3.5	2.9	2.5	2.5	2.0			1.7
34.0	4.7	4.3	3.9	4.0	3.5	3.2	3.3	2.8	2.4	2.4	1.9			1.6
36.0	4.6	4.1	3.8	3.8	3.4	3.2	3.2	2.7	2.4	2.3	1.9	1.7		1.6
38.0	4.4	4.0	3.8	3.7	3.3	3.1	3.1	2.7	2.3	2.3	1.8	1.6		1.5
40.0	4.2	3.9	3.7	3.6	3.2	3.0	3.0	2.6	2.3	2.2	1.8	1.6		1.5
44.0	4.0	3.7	3.6	3.3	3.0	2.8	2.8	2.4	2.2	2.1	1.7	1.5		1.4
48.0	3.7	3.5	3.4	3.2	2.8	2.7	2.6	2.3	2.1	2.0	1.6	1.5		1.3
52.0	3.5	3.4	3.3	3.0	2.7	2.6	2.4	2.2	2.1	1.9	1.6	1.4		1.2
56.0	3.4	3.2	3.2	2.8	2.6	2.5	2.3	2.1	2.0	1.8	1.5	1.4		1.1
60.0	2.8	2.9	2.8	2.7	2.5	2.4	2.2	2.0	1.9	1.7	1.4	1.3		1.1
64.0	2.2	2.2	2.0	2.4	2.4	2.4	2.1	1.9	1.8	1.6	1.4	1.3		1.0
68.0				1.9	1.9	1.8	2.0	1.8	1.8	1.6	1.3	1.3		1.0
72.0				1.4	1.3		1.5	1.7	1.5	1.5	1.3	1.3		
76.0							1.1	1.1	1.1	1.2	1.3	1.3		

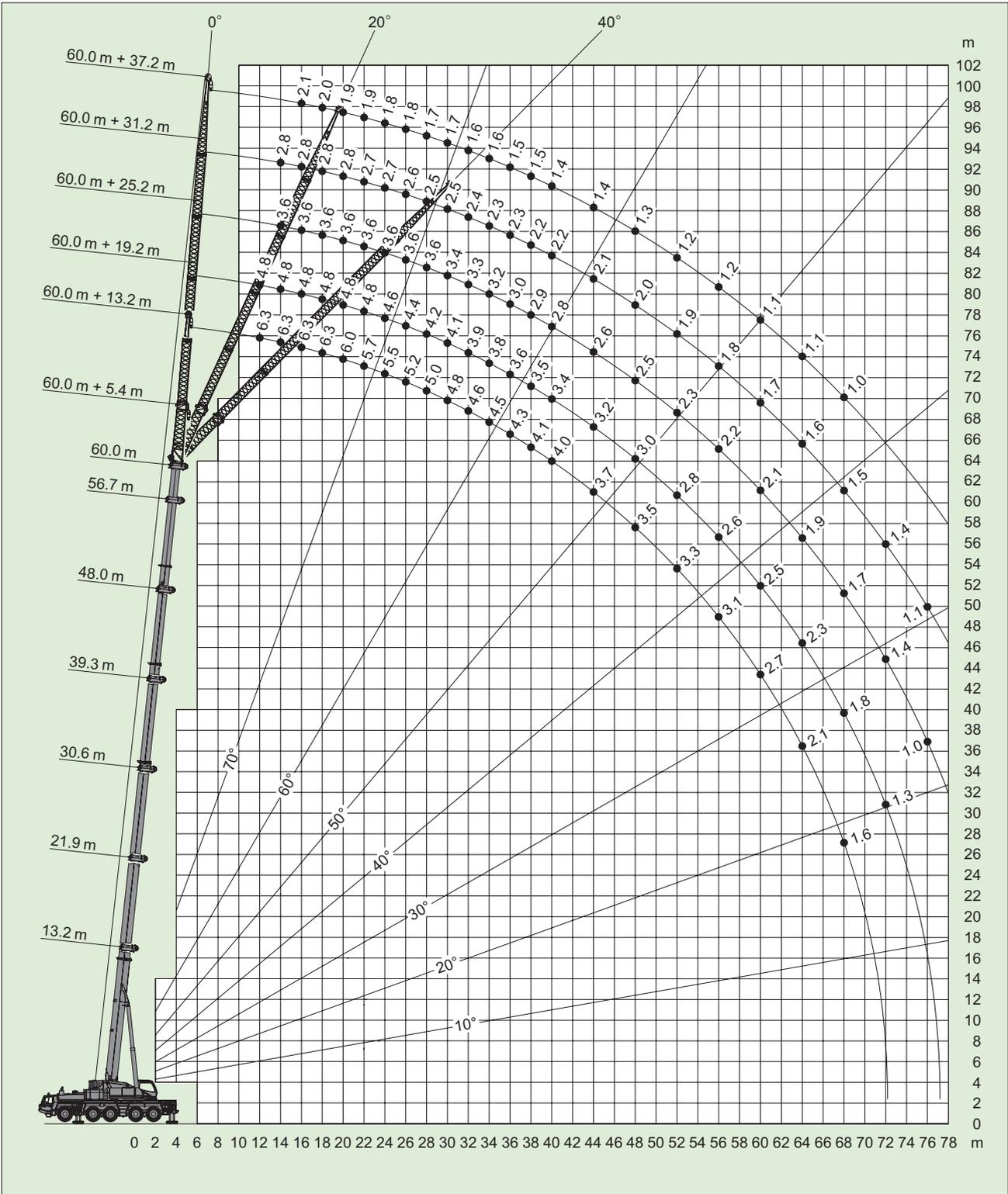
Lifting Heights



51t

DIN/ISO/EN

160t
ATF160G-5



Crawler Crane

- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2

Rough Terrain Crane

- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL
- 60t GR-600EX
- 80t GR-800EX

All Terrain Crane

- 160t ATF160G-5
- 200t LTM1200-5.1
- 220t ATF220G-5

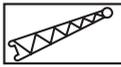
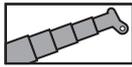
Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Lifting Capacities



37t

DIN / ISO / EN

	13.2 m + 5.4 m			56.7 m + 5.4 m			60.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	33.2								
3.5	31.4	23.7							
4.0	30.6	22.5							
4.5	29.1	22.2	18.5						
5.0	28.4	21.6	18.2						
6.0	26.0	20.5	17.9						
7.0	24.5	19.8	17.5						
8.0	22.9	19.0	17.2						
9.0	21.6	18.5	16.9						
10.0	20.5	18.0	16.8	10.7					
11.0	19.6	17.5	16.8	10.3			9.6		
12.0	18.8	17.2	16.8	10.0	9.2		9.3	8.6	
14.0	17.5	16.8		9.4	8.7	8.2	8.7	8.1	7.7
16.0	16.8			8.8	8.2	7.8	8.2	7.7	7.3
18.0				8.4	7.8	7.5	7.8	7.3	7.0
20.0				7.9	7.5	7.2	7.4	7.0	6.7
22.0				7.5	7.2	6.9	7.0	6.7	6.4
24.0				7.2	6.9	6.6	6.7	6.4	6.2
26.0				6.8	6.6	6.4	6.4	6.1	6.0
28.0				6.5	6.3	6.2	6.1	5.9	5.8
30.0				6.3	6.0	5.9	5.8	5.6	5.5
32.0				6.0	5.8	5.7	5.6	5.4	5.3
34.0				5.8	5.6	5.5	5.4	5.2	5.1
36.0				5.6	5.4	5.3	5.2	5.0	5.0
38.0				5.4	5.2	5.2	5.0	4.9	4.8
40.0				5.0	5.1	5.0	4.9	4.7	4.7
44.0				3.8	3.9	4.0	3.8	3.9	4.0
48.0				2.9	3.0	3.0	2.8	3.0	3.0
52.0				2.1	2.1		2.1	2.1	2.1
56.0				1.4	1.4		1.4	1.4	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

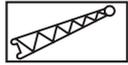
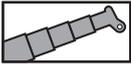
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

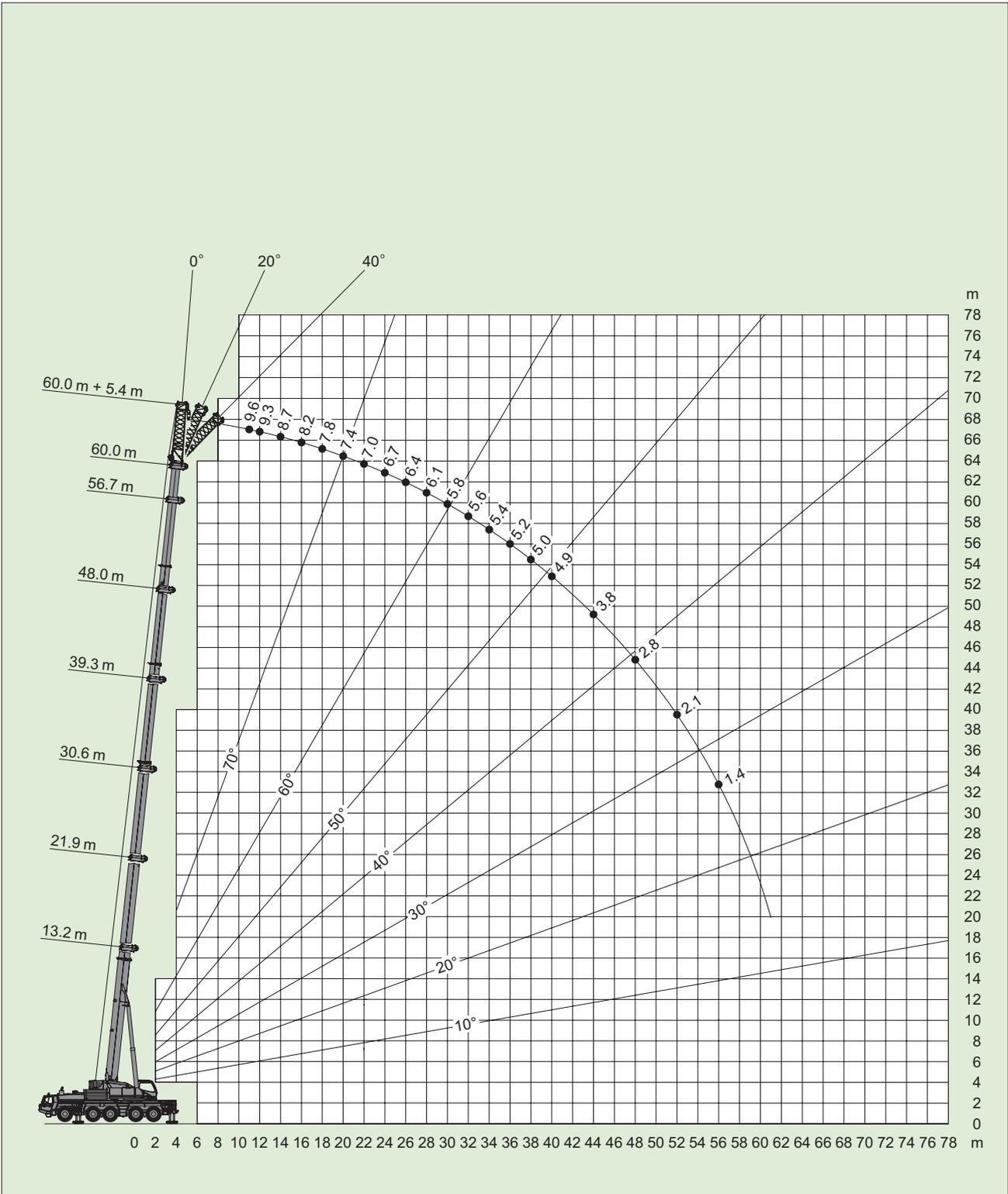
Lifting Heights



37 t

DIN/ISO/EN

160t
ATF160G-5



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

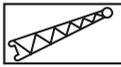
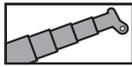
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



37t

DIN / ISO / EN

m	60.0 m + 13.2 m			60.0 m + 19.2 m			60.0 m + 25.2 m			60.0 m + 31.2 m			60.0 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
12.0	6.3			4.8											
14.0	6.3			4.8			3.6			2.8					
16.0	6.3			4.8			3.6			2.8			2.1		
18.0	6.3	5.3		4.8			3.6			2.8			2.0		
20.0	6.0	5.2	4.4	4.8	4.4		3.6			2.8			1.9		
22.0	5.7	5.0	4.3	4.8	4.2		3.6			2.7			1.9		
24.0	5.5	4.9	4.2	4.6	4.0		3.6	3.1		2.7			1.8		
26.0	5.2	4.7	4.1	4.4	3.9	3.5	3.6	3.0		2.6			1.8		
28.0	5.0	4.5	4.1	4.2	3.7	3.4	3.6	2.9		2.5	2.0		1.7		
30.0	4.8	4.3	4.0	4.1	3.6	3.3	3.4	2.9	2.5	2.5	2.0		1.7		
32.0	4.6	4.2	3.9	3.9	3.4	3.2	3.3	2.8	2.5	2.4	1.9		1.6		
34.0	4.5	4.1	3.8	3.8	3.3	3.1	3.2	2.7	2.4	2.3	1.9		1.6		
36.0	4.3	3.9	3.7	3.6	3.2	3.0	3.0	2.7	2.4	2.3	1.8		1.5		
38.0	4.1	3.8	3.6	3.5	3.1	2.9	2.9	2.6	2.3	2.2	1.8		1.5		
40.0	4.0	3.7	3.5	3.4	3.0	2.8	2.8	2.5	2.3	2.2	1.8		1.4		
44.0	3.7	3.5	3.4	3.2	2.8	2.7	2.6	2.3	2.2	2.1	1.7		1.4		
48.0	3.3	3.3	3.2	3.0	2.7	2.6	2.5	2.2	2.1	2.0	1.6		1.3		
52.0	2.5	2.8	2.9	2.7	2.6	2.4	2.3	2.1	2.0	1.9	1.5		1.2		
56.0	1.8	2.0	2.1	2.0	2.4	2.3	2.1	2.0	1.9	1.8	1.4		1.2		
60.0	1.3	1.4	1.4	1.4	1.7	1.9	1.6	1.9	1.8	1.6	1.4		1.1		
64.0					1.2	1.2	1.1	1.4	1.6	1.1	1.3		1.1		
68.0								1.0		1.1					

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

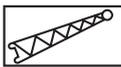
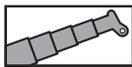
Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

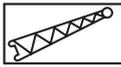
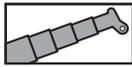


37t

DIN / ISO / EN

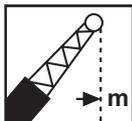
m	56.7 m + 13.2 m			56.7 m + 19.2 m			56.7 m + 25.2 m			56.7 m + 31.2 m			56.7 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
11.0	7.5														
12.0	7.5			5.6			4.2								
14.0	7.5			5.6			4.2			3.2					
16.0	7.1	5.6		5.6			4.2			3.1			2.2		
18.0	6.7	5.4		5.6			4.2			3.0			2.1		
20.0	6.4	5.2	4.4	5.4	4.6		4.2			2.9			2.0		
22.0	6.1	5.1	4.3	5.1	4.4		4.0			2.9			2.0		
24.0	5.8	4.9	4.2	4.9	4.2		3.9	3.2		2.8			1.9		
26.0	5.6	4.8	4.2	4.7	4.1	3.7	3.8	3.1		2.7			1.9		
28.0	5.3	4.7	4.1	4.5	3.9	3.6	3.7	3.0		2.6	2.1		1.8		
30.0	5.1	4.5	4.0	4.3	3.8	3.5	3.6	2.9	2.5	2.6	2.0		1.7		
32.0	4.9	4.4	4.0	4.1	3.6	3.4	3.5	2.9	2.5	2.5	2.0		1.7	1.3	
34.0	4.7	4.3	3.9	4.0	3.5	3.2	3.3	2.8	2.4	2.4	1.9		1.6	1.3	
36.0	4.6	4.1	3.8	3.8	3.4	3.2	3.2	2.7	2.4	2.3	1.9	1.7	1.6	1.2	
38.0	4.4	4.0	3.8	3.7	3.3	3.1	3.1	2.7	2.3	2.3	1.8	1.6	1.5	1.2	
40.0	4.2	3.9	3.7	3.6	3.2	3.0	3.0	2.6	2.3	2.2	1.8	1.6	1.5	1.1	
44.0	4.0	3.7	3.6	3.3	3.0	2.8	2.8	2.4	2.2	2.1	1.7	1.5	1.4	1.1	
48.0	3.3	3.5	3.4	3.2	2.8	2.7	2.6	2.3	2.1	2.0	1.6	1.5	1.3	1.0	
52.0	2.6	2.8	2.9	2.8	2.7	2.6	2.4	2.2	2.1	1.9	1.6	1.4	1.2	1.0	
56.0	1.9	2.1	2.1	2.1	2.4	2.5	2.2	2.1	2.0	1.8	1.5	1.4	1.1		
60.0	1.3	1.4	1.3	1.5	1.8	1.8	1.6	2.0	1.9	1.7	1.4	1.3	1.1		
64.0				1.0	1.2	1.1	1.1	1.5	1.6	1.2	1.4	1.3	1.0		
68.0										1.2	1.2	1.3			

Lifting Capacities



25t

DIN / ISO / EN

	13.2 m + 5.4 m			56.7 m + 5.4 m			60.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	33.2								
3.5	31.4	23.7							
4.0	30.6	22.5							
4.5	29.1	22.2	18.5						
5.0	28.4	21.6	18.2						
6.0	26.0	20.5	17.9						
7.0	24.5	19.8	17.5						
8.0	22.9	19.0	17.2						
9.0	21.6	18.5	16.9						
10.0	20.5	18.0	16.8	10.7					
11.0	19.6	17.5	16.8	10.3			9.6		
12.0	18.8	17.2	16.8	10.0	9.2		9.3	8.6	
14.0	17.5	16.8		9.4	8.7	8.2	8.7	8.1	7.7
16.0	16.8			8.8	8.2	7.8	8.2	7.7	7.3
18.0				8.4	7.8	7.5	7.8	7.3	7.0
20.0				7.9	7.5	7.2	7.4	7.0	6.7
22.0				7.5	7.2	6.9	7.0	6.7	6.4
24.0				7.2	6.9	6.6	6.7	6.4	6.2
26.0				6.8	6.6	6.4	6.4	6.1	6.0
28.0				6.5	6.3	6.2	6.1	5.9	5.8
30.0				6.3	6.0	5.9	5.8	5.6	5.5
32.0				5.6	5.8	5.7	5.6	5.4	5.3
34.0				4.8	5.1	5.2	4.8	5.1	5.1
36.0				4.1	4.3	4.5	4.1	4.3	4.5
38.0				3.5	3.7	3.8	3.5	3.7	3.8
40.0				2.9	3.1	3.2	2.9	3.1	3.2
44.0				2.0	2.1	2.2	2.0	2.1	2.2
48.0				1.2	1.3	1.3	1.2	1.3	1.4

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

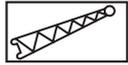
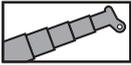
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

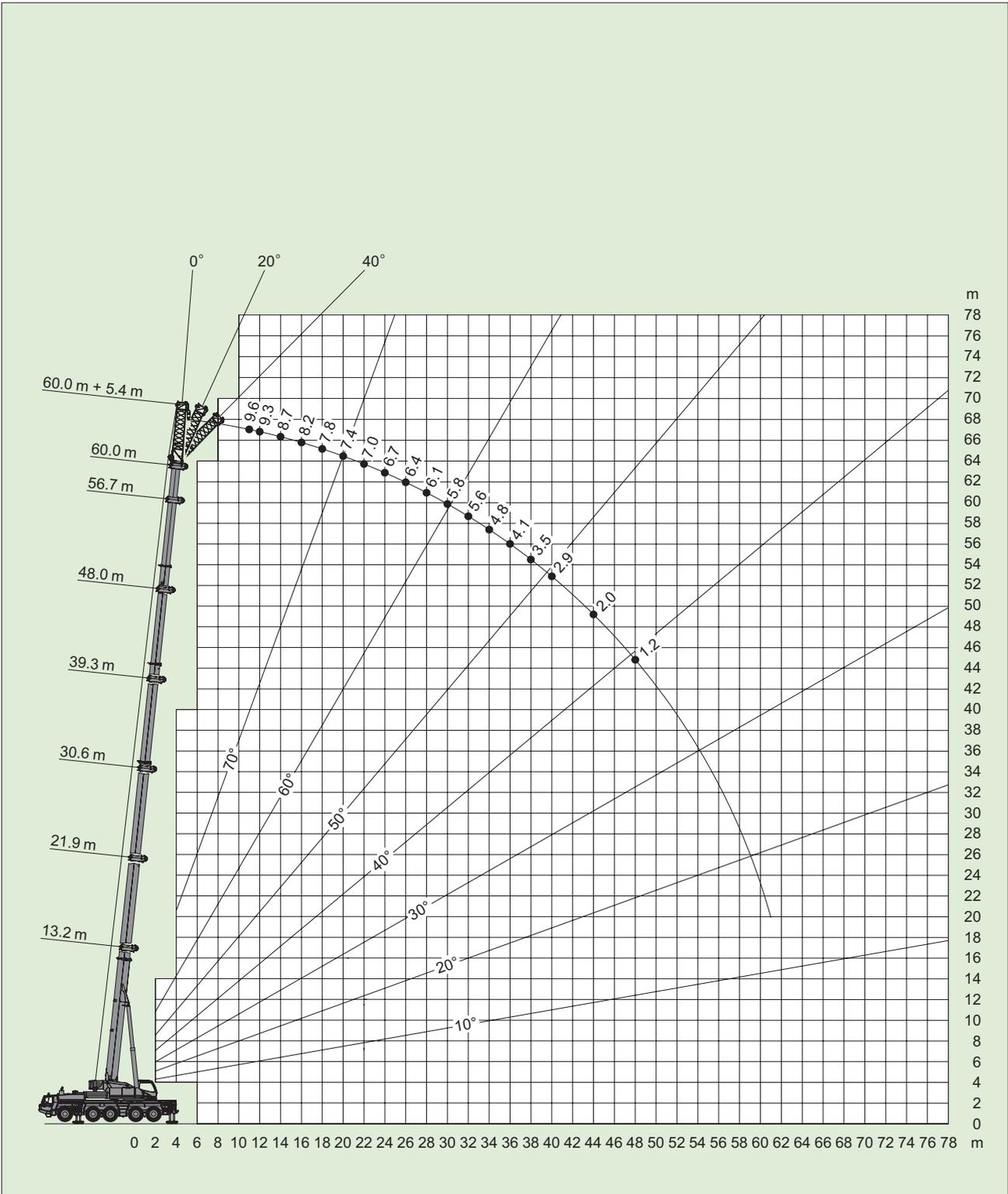
Lifting Heights



25t

DIN/ISO/EN

160t
ATF160G-5



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

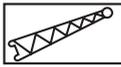
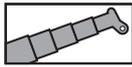
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



25t

DIN / ISO / EN

m	60.0 m + 13.2 m			60.0 m + 19.2 m			60.0 m + 25.2 m			60.0 m + 31.2 m			60.0 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
12.0	6.3			4.8											
14.0	6.3			4.8			3.6								
16.0	6.3			4.8			3.6								
18.0	6.3	5.3		4.8			3.6						2.1		
20.0	6.0	5.2	4.4	4.8	4.4		3.6						2.0		
22.0	5.7	5.0	4.3	4.8	4.2		3.6						1.9		
24.0	5.5	4.9	4.2	4.6	4.0		3.6	3.1					1.9		
26.0	5.2	4.7	4.1	4.4	3.9	3.5	3.6	3.0					1.8		
28.0	5.0	4.5	4.1	4.2	3.7	3.4	3.6	2.9					1.7		
30.0	4.8	4.3	4.0	4.1	3.6	3.3	3.4	2.9	2.5				1.7		
32.0	4.6	4.2	3.9	3.9	3.4	3.2	3.3	2.8	2.5	2.4			1.6		
34.0	4.5	4.1	3.8	3.8	3.3	3.1	3.2	2.7	2.4	2.3			1.6		
36.0	4.3	3.9	3.7	3.6	3.2	3.0	3.0	2.7	2.4	2.3	1.8		1.5		
38.0	4.0	3.8	3.6	3.5	3.1	2.9	2.9	2.6	2.3	2.2	1.8		1.5		
40.0	3.4	3.7	3.5	3.4	3.0	2.8	2.8	2.5	2.3	2.2	1.8		1.4		
44.0	2.4	2.9	3.1	2.6	2.8	2.7	2.6	2.3	2.2	2.1	1.7		1.4		
48.0	1.7	2.0	2.2	1.8	2.4	2.6	2.0	2.2	2.1	2.0	1.6		1.3		
52.0	1.0	1.3	1.4	1.2	1.6	1.9	1.3	1.9	2.0	1.4	1.5		1.2		
56.0					1.0	1.2		1.3	1.6		1.4				
60.0								1.0	1.0		1.0				

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

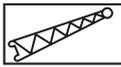
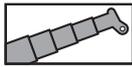
Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

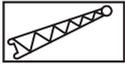
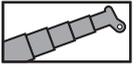


25t

DIN / ISO / EN

m	56.7 m + 13.2 m			56.7 m + 19.2 m			56.7 m + 25.2 m			56.7 m + 31.2 m			56.7 m + 37.2 m	
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°
11.0	7.5													
12.0	7.5			5.6			4.2							
14.0	7.5			5.6			4.2			3.2				
16.0	7.1	5.6		5.6			4.2			3.1			2.2	
18.0	6.7	5.4		5.6			4.2			3.0			2.1	
20.0	6.4	5.2	4.4	5.4	4.6		4.2			2.9			2.0	
22.0	6.1	5.1	4.3	5.1	4.4		4.0			2.9			2.0	
24.0	5.8	4.9	4.2	4.9	4.2		3.9	3.2		2.8			1.9	
26.0	5.6	4.8	4.2	4.7	4.1	3.7	3.8	3.1		2.7			1.9	
28.0	5.3	4.7	4.1	4.5	3.9	3.6	3.7	3.0		2.6	2.1		1.8	
30.0	5.1	4.5	4.0	4.3	3.8	3.5	3.6	2.9	2.5	2.6	2.0		1.7	
32.0	4.9	4.4	4.0	4.1	3.6	3.4	3.5	2.9	2.5	2.5	2.0		1.7	1.3
34.0	4.7	4.3	3.9	4.0	3.5	3.2	3.3	2.8	2.4	2.4	1.9		1.6	1.3
36.0	4.6	4.1	3.8	3.8	3.4	3.2	3.2	2.7	2.4	2.3	1.9	1.7	1.6	1.2
38.0	4.0	4.0	3.8	3.7	3.3	3.1	3.1	2.7	2.3	2.3	1.8	1.6	1.5	1.2
40.0	3.5	3.9	3.7	3.6	3.2	3.0	3.0	2.6	2.3	2.2	1.8	1.6	1.5	1.1
44.0	2.5	2.9	3.1	2.7	3.0	2.8	2.8	2.4	2.2	2.1	1.7	1.5	1.4	1.1
48.0	1.7	2.0	2.2	1.9	2.4	2.7	2.1	2.3	2.1	2.0	1.6	1.5	1.3	1.0
52.0	1.0	1.3	1.4	1.2	1.7	1.9	1.4	2.0	2.1	1.5	1.6	1.4	1.2	1.0
56.0					1.0	1.2		1.3	1.6		1.5	1.4	1.0	
60.0								1.0	1.0		1.0	1.3		

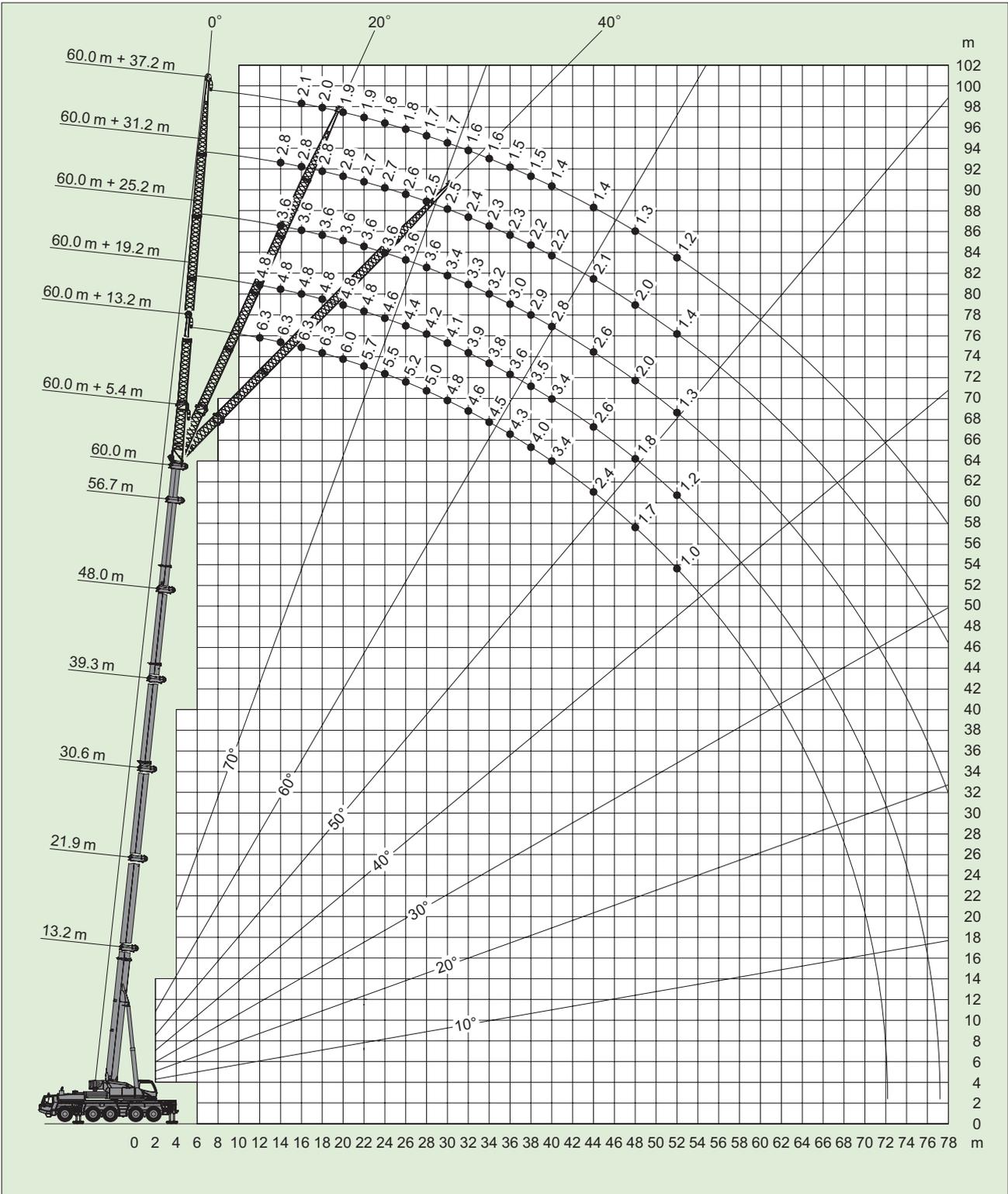
Lifting Heights



25t

DIN/ISO/EN

160t
ATF160G-5



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

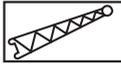
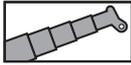
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



13t

DIN / ISO / EN

m	13.2 m + 5.4 m			56.7 m + 5.4 m			60.0 m + 5.4 m			56.7 m + 13.2 m			60.0 m + 13.2 m		
	0°	20	40	0	20	40	0	20	40	0	20	40	0	20	40
3.0	33.2														
3.5	31.4	23.7													
4.0	30.6	22.5													
4.5	29.1	22.2	18.5												
5.0	28.4	21.6	18.2												
6.0	26.0	20.5	17.9												
7.0	24.5	19.8	17.5												
8.0	22.9	19.0	17.2												
9.0	21.6	18.5	16.9												
10.0	20.5	18.0	16.8	10.7											
11.0	19.6	17.5	16.8	10.3			9.6			7.5					
12.0	18.8	17.2	16.8	10.0	9.2		9.3	8.6		7.5			6.3		
14.0	17.5	16.8		9.4	8.7	8.2	8.7	8.1	7.7	7.5			6.3		
16.0	16.4			8.8	8.2	7.8	8.2	7.7	7.3	7.1	5.6		6.3		
18.0				8.4	7.8	7.5	7.8	7.3	7.0	6.7	5.4		6.3	5.3	
20.0				7.9	7.5	7.2	7.4	7.0	6.7	6.4	5.2	4.4	6.0	5.2	4.4
22.0				7.5	7.2	6.9	7.0	6.7	6.4	6.1	5.1	4.3	5.7	5.0	4.3
24.0				6.9	6.9	6.6	6.7	6.4	6.2	5.8	4.9	4.2	5.5	4.9	4.2
26.0				5.7	6.1	6.4	5.7	6.1	6.0	5.6	4.8	4.2	5.2	4.7	4.1
28.0				4.7	5.0	5.3	4.7	5.0	5.3	5.2	4.7	4.1	5.0	4.5	4.1
30.0				3.8	4.1	4.3	3.8	4.1	4.3	4.4	4.5	4.0	4.3	4.3	4.0
32.0				3.1	3.3	3.5	3.0	3.3	3.5	3.6	4.3	4.0	3.6	4.2	3.9
34.0				2.4	2.7	2.8	2.4	2.7	2.8	2.9	3.6	3.9	2.9	3.5	3.8
36.0				1.8	2.1	2.2	1.8	2.1	2.2	2.4	2.9	3.4	2.3	2.9	3.3
38.0				1.3	1.5	1.7	1.3	1.5	1.7	1.9	2.4	2.8	1.8	2.4	2.7
40.0					1.1	1.2		1.1	1.2	1.4	1.9	2.2	1.4	1.9	2.2
44.0											1.1	1.3			1.3

Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Remarks relating to the rating charts

The lifting capacities in the structural area are based on DIN 15018 part 3 / F.E.M. / EN 13000.

The lifting capacities in the stability area are based on DIN 15019 part 2 / ISO 4305 / EN 13000.

The maximum permissible wind speed for crane operation is 10m/sec.

The lifting capacities are shown in metric tons.

The weight of load handling devices such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.

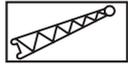
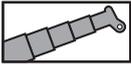
The lifting capacities for the telescopic boom apply to a crane with no boom extensions being stowed or mounted on the crane.

The working radius is the horizontal distance from the centre of rotation to the centre of the freely suspended non-oscillating load.

The lifting capacities are subject to change without prior notice.

The above remarks are for basic information only and the operator's manual must be consulted before operating this crane. All data and performances refer to the standard crane. The addition of optional and other equipment may affect the performance of the crane.

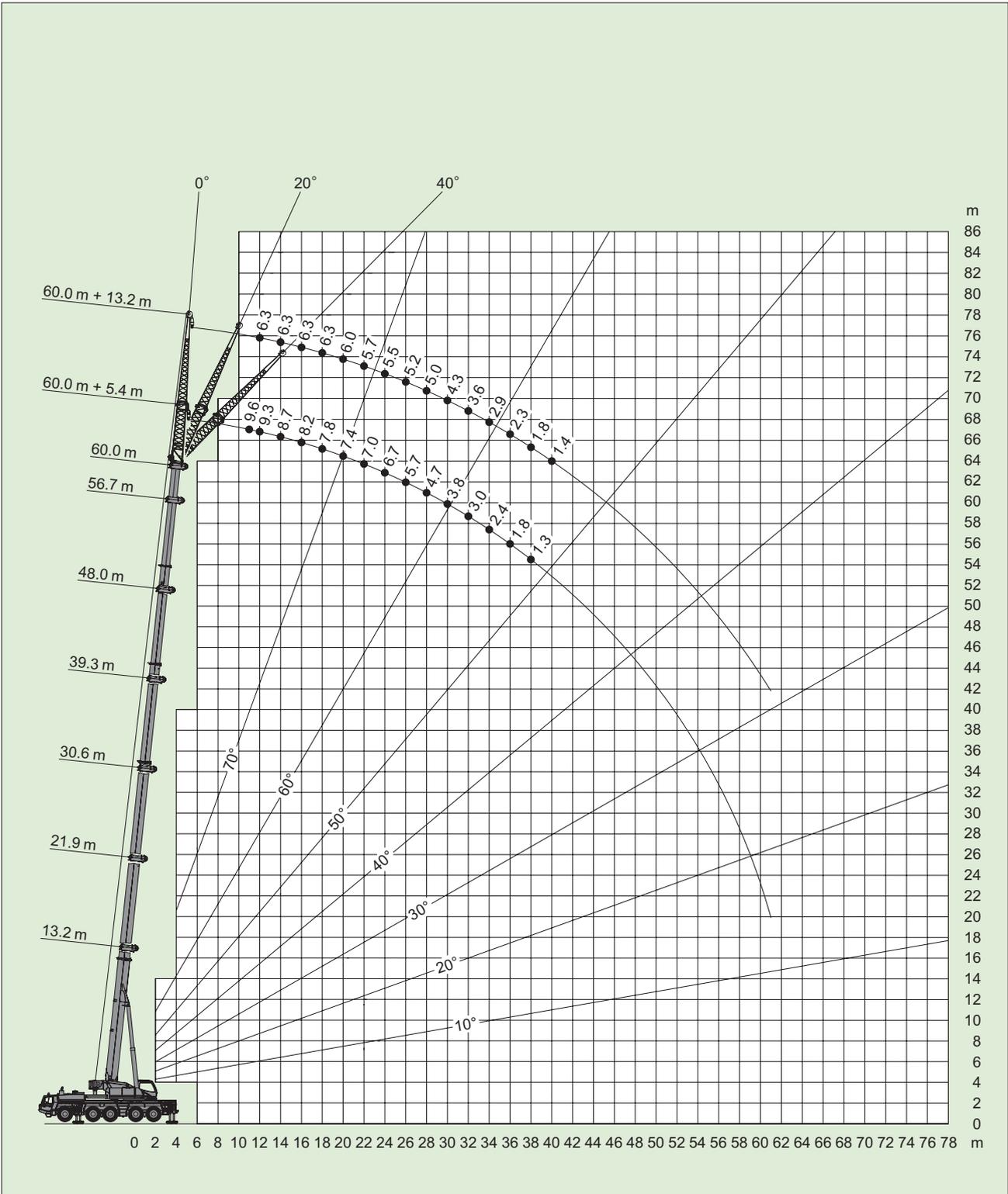
Lifting Heights



13t

DIN/ISO/EN

160t
ATF160G-5



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

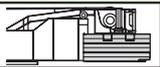
Excavator

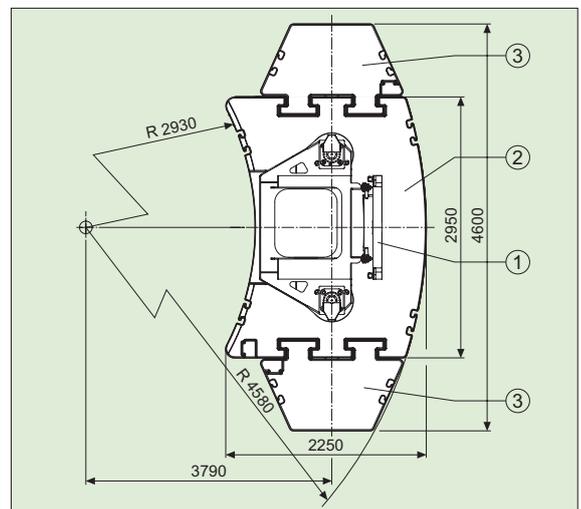
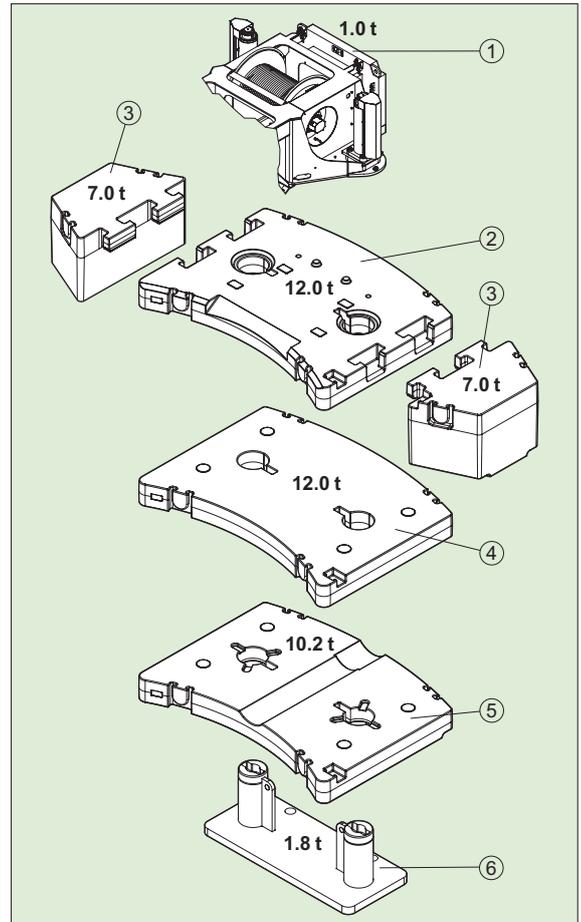
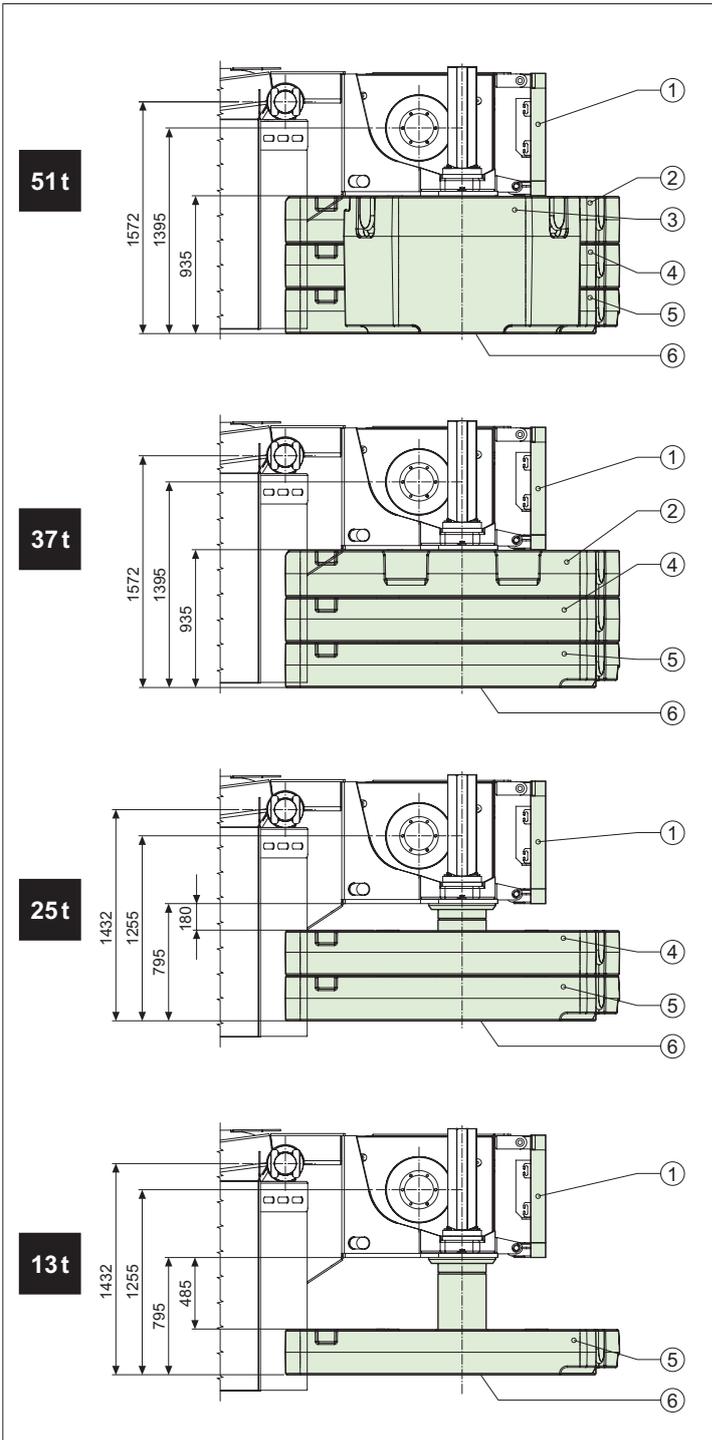
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Counterweight Versions

	Gegengewicht / Counterweight Contrepoids / Contrapeso	1x	1x	2x	1x	1x	1x
	(t)	①	②	③	④	⑤	⑥
		1.0	12.0	7.0	12.0	10.2	1.8



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

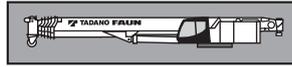
Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Specifications



Frame Torsion resistant, welded construction made from high strength, fine-grained steel. Central lubricating system.

Outriggers 4 point, double telescopic hydraulic outriggers with controls on both sides of carrier and in superstructure cab. Outrigger base 8.3 m (5.6 m mid extension) x 8.98 m.

Carrier engine Mercedes-Benz 8 cylinder model OM 502 LA (Euromot III A/EPA III), water-cooled diesel engine. Rated at 390 kW (530 HP) at 1800 min⁻¹. Torque 2400 Nm (245 kpm) at 1300 min⁻¹. Engine rating according to 80/1269/EWG. Fuel tank 530 l.

Transmission ZF-AS-Tronic 16 AS 2602 mechanical transmission with electro-pneumatically operated dry-type clutch and automatic gear shifting with 16 forward gears and 2 reverse gears.

Transfer Case Two stage.

Drive 10 x 8

Axles

1st axle: steered, driven.
2nd axle: steered, driven.
3rd axle: not steered, not driven, lift axle.
4th axle: steered, driven, with longitudinal differential lock.
5th axle: steered, driven.
All driven axles with transverse differential locks.

Suspension Hydro-pneumatic with levelling adjustment.

Brake system Service brakes: dual circuit compressed air system. Parking brake: spring loaded type acting on 2nd, 4th and 5th axles. Auxiliary brakes: Intarder/Bremsomat function, engine exhaust brake and constant throttle engine brake system

Tyres (10) 445/95 R 25 (16.00 R 25).

Steering system ZF-Servocom, dual circuit hydraulic steering with emergency steering pump, mechanical hydraulically-assisted steering of front two axles and automatic steering of the 4th axle up to a travel speed of 25 km/h and of the 5th axle up to 50 km/h.

Carrier cab Two man full width cab of composite (steel sheet metal and fibre-glass) structure, with safety glass, air-cushioned adjustable seats, engine dependent hot-water heater. Complete controls and instrumentation for road travel. Speed control.

Electrical system 24 volt DC system, 2 batteries, CAN-Bus system with Faun CSS integrated self-diagnosis system, outrigger area lighting. Electrical system conforms with EEC regulations.

Optional Equipment (at extra charge)

Towing attachment, additional heater, engine pre-heat, air conditioning, ABS, 525/80 R 25 (20.5 R 25) tyres, spare wheel and tyre, special painting and lettering. Further optional equipment available upon request.

Frame Torsion-resistant, all-welded structure of high strength steel. Connected to carrier by single-row ball-bearing slewing ring with external gearing for 360° continuous rotation. Central lubricating system.

Superstructure engine Mercedes-Benz 6 cylinder model OM 906 LA (Euromot III A/EPA III), water cooled, diesel engine. PRM infinitely variable via foot pedal, rating 138 kW (188 HP) at 1800 min⁻¹. Torque 750 Nm (76 kpm) at 1200 - 1600 min⁻¹. Engine rating according to DIN 6270B/DIN 6271. Fuel tank 250 l.

Hydraulic system Three circuit diesel hydraulic system with 1 double axial piston pump and 1 axial piston pump.

Controls Electrical, 2 joy-stick levers for simultaneous operation of crane motions.

Telescopic boom 6 sections, made of high tensile, fine-grained steel, consisting of 1 base section and 5 telescoping sections extended by means of a single telescopic cylinder. All telescope sections extendable under partial load. 13.2 m to 60.0 m long.

Derricking system 1 double acting hydraulic cylinder with integral brake and holding valve.

Main winch Axial piston motor, winch drum with integrated planetary reduction and with hydraulically controlled spring-loaded, multiple disc brake and with integrated free rotation (no sagging of load when hoisting). Hoist cable with 'Super-Stop' easy reeving system.

Slewing system Axial piston motor with three-stage planetary reduction with a foot actuated or automatic service and a parking brake, open circuit with free slewing function. Speed infinitely variable 0 - 1.8 min⁻¹.

Counterweight Total 51 t divisible, assembled and disassembled by hydraulic cylinders controlled from superstructure cab.

Superstructure cab Spacious panoramic cab of composite structure with safety (tinted) glass windows, tiltable cockpit with hydraulically cushioned adjustable seat, one engine dependent hot water heater and one engine independent hot-water heater (with engine pre-heat). Complete controls and instrumentation plus LCD graphic display for crane operation.

Electrical system 24 volt DC system, 2 batteries.

Safety devices 'Lift Adjuster', load moment device (LMD), anemometer, working area limiter, hoist limit switch, lower limit switch and drum turn indicator, safety valves against pipe and hose rupture, holding valves on hydraulic cylinders.

Optional Equipment (at extra charge)

Boom extensions 13.2 m to 37.2 m, heavy duty jib 5.4 m, counterweight variations 13 t/25 t/37 t, selection of hook blocks 10 t - 160 t, air conditioning, auxiliary winch (same as main winch), special painting and lettering, outrigger load display.

Further optional equipment available upon request.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

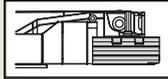
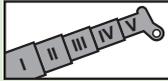
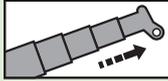
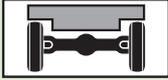
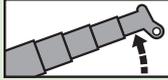
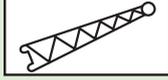
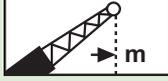
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Symbols

DIN/ISO/EN			Counterweight versions
	Outriggers		Telescopic boom
	Transmission / Gear		Boom telescoping
	Axle load		Derricking system
 445/95 (16.00)	Tyres / Size		Radius
	Off road		Boom extension
	On road		Radius
V+	Speeds		Main winch
	Gradeability		Auxiliary winch
	Slewing system		Hook block / Swivel hook
51t	Counterweight		

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

All Terrain Crane 200t LTM1200-5.1

Manual PDF

All Terrain Crane
200t LTM1200-5.1
(LIEBHERR)



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Weights



Axle Essieu	1	2	3	4	5	Total weight lbs Poids total lbs
lbs	26400	26400	26400	26400	26400	132000



Load (kips) Forces de levage kips	No. of sheaves Poulies	No. of lines Brins	Weight lbs Poids lbs
332.9	9	16	4409
315.3	7	15	3306
238	5	11	2866
156.5	3	7	2292
69	1	3	1851
23.1	–	1	1102

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ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Working speeds



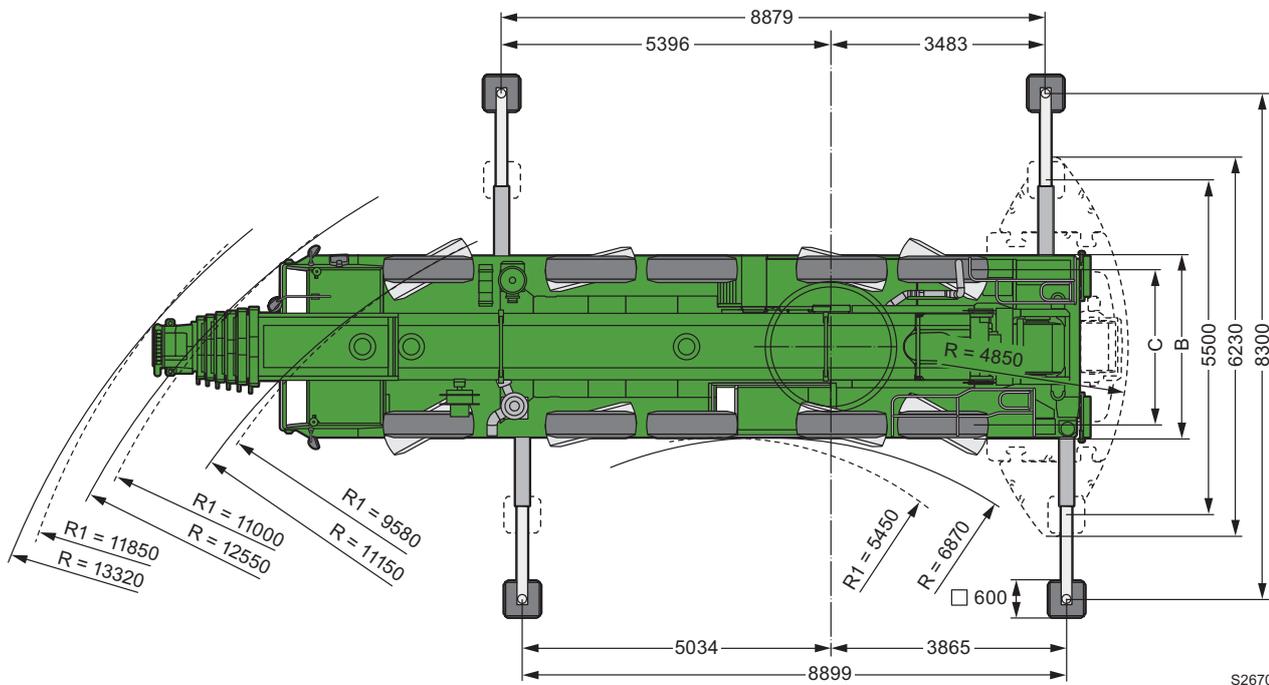
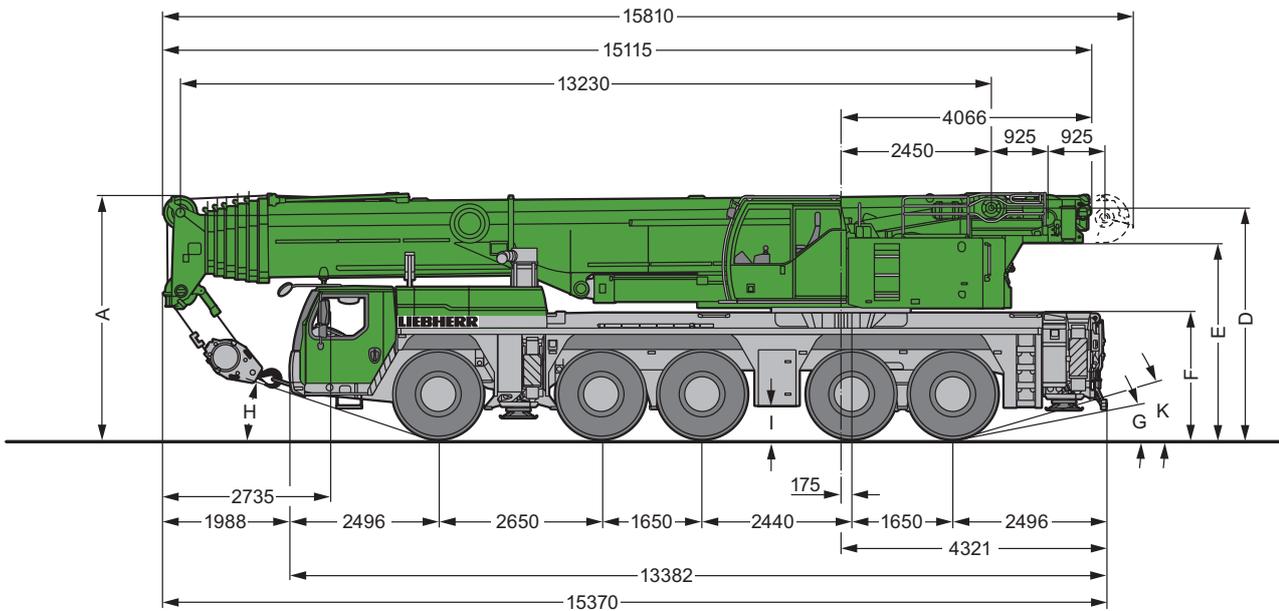
		1	2	3	4	5	6	7	8	9	10	11	12	R 1	R 2	
16.00 R 25 20.5 R 25		3,54	4,54	5,84	7,52	9,51	12,24	16,10	20,63	26,60	34,18	43,37	49,71	3,79	4,91	43 %
		1,55	1,99	2,55	3,29	4,16	5,34	7,02	9,01	11,62	14,85	18,89	24,23	1,68	2,11	55 %



Drive Mécanismes	infinitely variable en continu	Rope diameter / Rope length Diamètre du câble / Longueur du câble	Max. single line pull Effort au brin maxi.
	0 – 427 ft/min single line ft/min au brin simple	0.8" / 920 ft	23605 lbs
	0 – 427 ft/min single line ft/min au brin simple	0.8" / 920 ft	23605 lbs
	0 – 1.3 rpm		
	approx. 50 seconds to reach 82° boom angle env. 50 s jusqu'à 82°		
	approx. 580 seconds for boom extension from 43 ft – 236 ft env. 580 s pour passer de 43 ft – 236 ft		

Dimensions

200t
LTM1200-5.1



R₁ = All-wheel steering

	Dimensions mm											
	A	A	B	C	D	E	F	G	H	I	K	
385/95 R 25 (14.00 R 25)	3950	3800	3000	2563	3704	3139	2000	10°	15°	377	15°	
445/95 R 25 (16.00 R 25)	4000	3850	3000	2551	3754	3189	2050	11°	17°	427	16°	
525/80 R 25 (20.5 R 25)	4000	3850	3100	2573	3754	3189	2050	11°	17°	427	16°	

* lowered

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

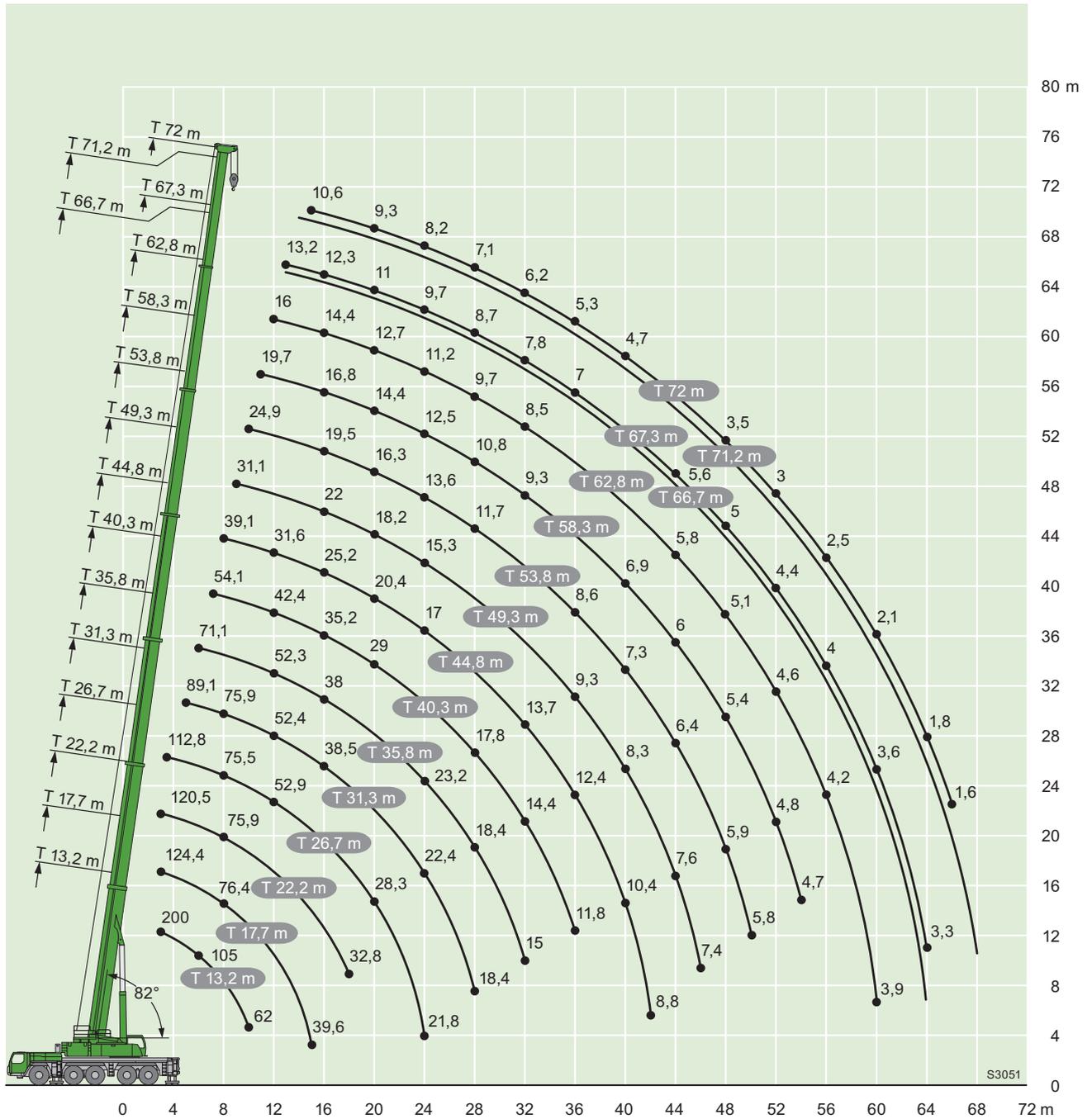
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Heights



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
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All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1

- 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

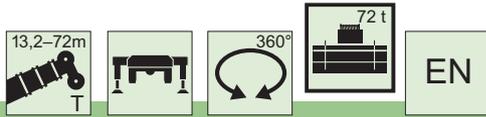
Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

S3051

Lifting Capacities

200t
LTM1200-5.1



	13,2 m	17,7 m	22,2 m	26,7 m	31,3 m	35,8 m	40,3 m	44,8 m	49,3 m	53,8 m	58,3 m	62,8 m	66,7 m	67,3 m	71,2 m	72 m		
m	*																m	
3	200	133,8	124,4	120,5													3	
3,5	142	131,3	125,5	120,7													3,5	
4	133	123,6	123,6	119	112,8												4	
4,5	125	115,4	115,3	115,1	111,4												4,5	
5	117	107,7	107,8	107,6	107,2	89,1											5	
6	105	94,8	95,4	94,7	94,4	87,1	71,1										6	
7	93	84,5	85,1	84,4	84	82,9	69,5	54,1									7	
8	82	75,9	76,4	75,9	75,5	75,9	66,5	52	39,1								8	
9	73	68,7	69,3	68,7	69,2	68,7	62,5	49,7	37,3	31,1							9	
10	62	62,6	63,2	62,6	63,1	62,7	58,6	47,3	35,4	29,7	24,9						10	
11			57,7	57,1	57,7	57,2	55,2	44,8	33,5	28,4	24	19,7					11	
12			53	52,3	52,9	52,4	52,3	42,4	31,6	27,1	23,2	19,1	16				12	
13			48,5	48,6	48,5	48	48,6	40,4	29,7	25,8	22,3	18,5	15,6	12,1	13,2		13	
14			44,7	44,8	44,6	44	44,8	38,7	27,8	24,5	21,4	18	15,2	11,8	12,9	11	14	
15			39,6	41,2	40,9	41,1	41,2	37	26,5	23,2	20,5	17,4	14,8	11,5	12,6	10,8	10,6	15
16				38,1	37,8	38,5	38	35,2	25,2	22	19,5	16,8	14,4	11,2	12,3	10,5	10,4	16
18				32,8	32,4	33,2	32,6	32,4	22,5	20,1	17,8	15,5	13,6	10,5	11,7	9,9	9,8	18
20					28,3	28,9	28,3	29	20,4	18,2	16,3	14,4	12,7	9,9	11	9,4	9,3	20
22					25,7	25,4	25,9	25,5	18,7	16,5	15	13,4	11,9	9,2	10,4	8,9	8,7	22
24					21,8	22,4	23,2	22,6	17	15,3	13,6	12,5	11,2	8,6	9,7	8,4	8,2	24
26						19,8	20,6	19,9	15,9	14,1	12,7	11,6	10,5	8,1	9,2	7,9	7,6	26
28						18,4	18,4	17,8	15,2	12,9	11,7	10,8	9,7	7,6	8,7	7,5	7,1	28
30							16,6	15,9	14,4	11,8	10,8	10	9,1	7,1	8,2	7,1	6,6	30
32							15	14,4	13,7	11	9,9	9,3	8,5	6,6	7,8	6,6	6,2	32
34								13	13,1	10,1	9,2	8,5	8	6,3	7,4	6,2	5,7	34
36								11,8	12,4	9,3	8,6	7,9	7,4	5,9	7	5,9	5,3	36
38									11,3	8,8	7,9	7,4	6,9	5,5	6,6	5,6	5	38
40									10,4	8,3	7,3	6,9	6,5	5,2	6,2	5,3	4,7	40
42									8,8	7,9	6,9	6,5	6,1	4,9	5,9	5	4,3	42
44										7,6	6,4	6	5,8	4,6	5,6	4,7	4	44
46										7,4	6,1	5,7	5,4	4,4	5,3	4,5	3,7	46
48											5,9	5,4	5,1	4,1	5	4,3	3,5	48
50											5,8	5,1	4,8	3,9	4,7	4,1	3,2	50
52												4,8	4,6	3,7	4,4	3,8	3	52
54												4,7	4,3	3,5	4,2	3,6	2,7	54
56													4,2	3,3	4	3,5	2,5	56
58													4	3,1	3,8	3,3	2,3	58
60													3,9	3	3,6	3,1	2,1	60
62														2,8	3,4	3	1,9	62
64															2,8	3,3	2,9	64
66																2,8	1,6	66
68																	2,7	68

* over rear

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Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

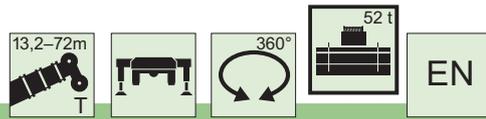
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



	13,2 m	17,7 m	22,2 m	26,7 m	31,3 m	35,8 m	40,3 m	44,8 m	49,3 m	53,8 m	58,3 m	62,8 m	66,7 m	67,3 m	71,2 m	72 m	
m																	m
3	133,8	124,4	120,5														3
3,5	131,3	125,5	120,7														3,5
4	123,1	123,1	119	112,8													4
4,5	114,4	114,4	114,2	111													4,5
5	106,9	106,9	106,7	106,3	89,1												5
6	93,9	94,5	93,8	93,4	87,1	71,1											6
7	83,4	84	83,3	82,9	82,5	69,5	54,1										7
8	74,6	75,2	74,6	75,1	74,6	66,5	52	39,1									8
9	66,7	67,4	66,7	67,4	66,9	62,5	49,7	37,3	31,1								9
10	59,6	60,3	60,4	60,2	59,7	58,6	47,3	35,4	29,7	24,9							10
11		53,9	54,1	53,9	53,4	53,5	44,8	33,5	28,4	24	19,7						11
12		48,4	48,7	48,3	48,8	48	42,4	31,6	27,1	23,2	19,1	16					12
13		44,2	43,9	43,6	44,5	43,3	40,4	29,7	25,8	22,3	18,5	15,6	12,1	13,2			13
14		39,9	39,6	39,3	40,2	39,3	38,5	27,8	24,5	21,4	18	15,2	11,8	12,9	11		14
15		35,7	35,5	36,5	36,1	35,5	35,8	26,5	23,2	20,5	17,4	14,8	11,5	12,6	10,8	10,6	15
16			32	33	32,6	33,1	32,8	25,2	22	19,5	16,8	14,4	11,2	12,3	10,5	10,4	16
18			27,5	27,5	27,7	28	27,4	22,5	20,1	17,8	15,5	13,6	10,5	11,7	9,9	9,8	18
20				23,3	24,2	23,8	23,1	20,4	18,2	16,3	14,4	12,7	9,9	11	9,4	9,3	20
22				20,2	20,9	20,6	19,9	18,7	16,5	15	13,4	11,9	9,2	10,4	8,9	8,7	22
24				18,5	18,3	17,9	17,3	17	15,3	13,6	12,5	11,2	8,6	9,7	8,4	8,2	24
26					16,2	15,8	15,1	15,8	14,1	12,7	11,6	10,5	8,1	9,2	7,9	7,6	26
28					14,5	14	13,4	14	12,7	11,7	10,8	9,7	7,6	8,7	7,5	7,1	28
30						12,5	11,9	12,5	11,5	10,8	10	9,1	7,1	8,2	7,1	6,6	30
32						12	10,6	11,2	10,5	9,9	9,3	8,5	6,6	7,8	6,6	6,2	32
34							9,4	10,1	9,6	8,8	8,5	8	6,3	7,4	6,2	5,7	34
36							8,4	9	9,1	8,2	7,9	7,4	5,9	7	5,9	5,3	36
38								8,1	8,5	7,5	7,1	6,9	5,5	6,6	5,6	5	38
40								7,7	7,7	6,8	6,6	6,5	5,2	6,2	5,3	4,7	40
42								7,5	6,9	6,6	6,2	5,9	4,9	5,9	5	4,3	42
44									6,3	6,3	5,7	5,5	4,6	5,5	4,7	4	44
46									5,8	5,8	5,1	5,2	4,4	5	4,5	3,7	46
48										5,3	4,6	4,9	4,1	4,4	4,3	3,5	48
50										4,8	4,4	4,4	3,9	3,9	4	3,2	50
52											4,2	4	3,7	3,4	3,5	3	52
54											3,9	3,5	3,5	3	3,1	2,7	54
56												3,1	3,2	2,6	2,7	2,5	56
58												2,8	2,8	2,3	2,4	2,3	58
60												2,5	2,5	2	2	1,9	60
62													2,2	1,7	1,7	1,6	62
64														2			64

t_210_00012_01_000

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

	13,2-72m	13,2 m	17,7 m	22,2 m	26,7 m	31,3 m	35,8 m	40,3 m	44,8 m	49,3 m	53,8 m	58,3 m	62,8 m	66,7 m	67,3 m	71,2 m	72 m	
3		133,8	124,4	120,5														3
3,5		130,9	125,5	120,7														3,5
4		122,5	122,5	119	112,8													4
4,5		113,8	113,8	113,6	110,8													4,5
5		106,2	106,3	106,1	105,7	89,1												5
6		93,1	93,7	93	92,6	87,1	71,1											6
7		82,4	83	82,3	82	81,9	69,5	54,1										7
8		72,7	73,4	72,9	73,4	72,2	66,5	52	39,1									8
9		63,8	64,6	64,7	64,7	62	60,3	49,7	37,3	31,1								9
10		56,1	57	57,2	57	55,4	52,7	47,3	35,4	29,7	24,9							10
11			50,9	50,6	50,4	49,6	46,5	44,8	33,5	28,4	24	19,7						11
12			44,6	44,4	45	44,2	41,5	41,1	31,6	27,1	23,2	19,1	16					12
13			39,1	38,8	40	39,4	39	37,2	29,7	25,8	22,3	18,5	15,6	12,1	13,2			13
14			34,6	35,4	35,4	35,1	35,8	33,7	27,8	24,5	21,4	18	15,2	11,8	12,9	11		14
15			30,9	31,7	31,7	32,4	32,3	30,8	26,5	23,2	20,5	17,4	14,8	11,5	12,6	10,8	10,6	15
16				28,6	28,6	29,5	29,2	28,3	25,2	22	19,5	16,8	14,4	11,2	12,3	10,5	10,4	16
18				23,8	24,4	24,6	24,2	23,6	22,5	20,1	17,8	15,5	13,6	10,5	11,7	9,9	9,8	18
20					21	20,9	20,5	19,8	19,4	18,2	16,3	14,4	12,7	9,9	11	9,4	9,3	20
22					18,1	18	17,6	16,9	17,6	16,1	15	13,4	11,9	9,2	10,4	8,9	8,7	22
24					15,9	15,6	15,2	14,6	15,3	14,3	13,5	12,5	11,2	8,6	9,7	8,4	8,2	24
26						13,7	13,9	12,7	13,3	12,7	11,8	11,6	10,5	8,1	9,2	7,9	7,6	26
28						12,2	12,8	11,1	11,7	11,5	10,9	10,3	9,7	7,6	8,7	7,5	7,1	28
30							11,4	9,7	10,3	10,7	9,8	9,1	9	7,1	8,2	7,1	6,6	30
32								10,3	8,6	9,4	9,5	8,6	8,5	8	6,6	7,8	6,6	32
34									8,1	8,9	8,5	8	7,8	7,3	6,3	7,2	6,2	34
36										7,7	8,2	7,5	7,6	7	6,9	5,9	6,4	36
38											7,4	6,8	6,9	6,1	6,4	5,5	5,7	38
40												6,6	6,5	6,1	5,8	5,2	5,1	40
42													6	6,1	5,6	5,4	4,9	42
44														5,5	5,3	4,9	4,5	44
46															5	4,8	4,4	46
48																4,3	3,9	48
50																	3,9	50
52																		52
54																		54
56																		56
58																		58

t_210_00013_01_000

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

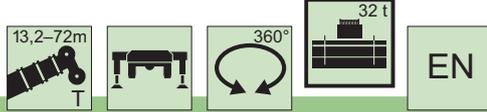
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



	13,2 m	17,7 m	22,2 m	26,7 m	31,3 m	35,8 m	40,3 m	44,8 m	49,3 m	53,8 m	58,3 m	62,8 m	66,7 m	67,3 m	71,2 m	72 m	
3	133,8	124,4	120,5														3
3,5	130,4	125,5	120,7														3,5
4	121,9	121,8	119	112,8													4
4,5	113,1	113,1	112,9	110,5													4,5
5	105,4	105,5	105,2	104,8	89,1												5
6	92,2	92,8	92,1	91,6	87,1	71,1											6
7	80,3	81,1	80,3	80,9	74,8	68,7	54,1										7
8	69,2	70	70,3	67,2	64,7	60	52	39,1									8
9	59,6	60,6	60,6	56,9	55,2	51,5	49,6	37,3	31,1								9
10	50,4	52,4	51,9	50,7	48,1	46	44,1	35,4	29,7	24,9							10
11		44,3	43,9	44,7	42,2	41,6	39	33,5	28,4	24	19,7						11
12		38,1	39	38,9	38,3	37,2	34,8	31,6	27,1	23,2	19,1	16					12
13		33,2	34,1	34,1	34,9	33,5	31,4	29,4	25,8	22,3	18,5	15,6	12,1	13,2			13
14		29,3	30,1	30,5	31,2	30,3	28,4	26,7	24,5	21,4	18	15,2	11,8	12,9	11		14
15		26,6	27,6	28	27,9	27,4	25,7	24,2	23	20,5	17,4	14,8	11,5	12,6	10,8	10,6	15
16			24,9	25,3	25,1	24,8	23,4	22,6	21,1	19,5	16,8	14,4	11,2	12,3	10,5	10,4	16
18			20,6	20,9	20,8	20,4	19,6	20	18,2	17,2	15,5	13,6	10,5	11,7	9,9	9,8	18
20				17,6	17,4	17,1	16,3	17,1	15,7	14,8	14	12,7	9,9	11	9,4	9,3	20
22				15	14,8	15,6	13,8	14,5	13,8	13,1	12,1	11,8	9,2	10,4	8,9	8,7	22
24				13	12,8	13,5	11,7	12,4	12,7	11,3	11,2	10,3	8,6	9,7	8,4	8,2	24
26					11,1	11,8	10,7	11,5	11,1	10,2	9,8	9,5	8,1	8,9	7,9	7,6	26
28					9,7	10,4	9,8	10,3	9,7	9,6	8,6	8,7	7,6	7,8	7,4	7,1	28
30						9,2	9,2	9,1	8,4	8,6	8,1	7,6	7,1	6,8	6,6	6,4	30
32						8,2	8,4	8	8	7,6	7,4	6,7	6,5	5,9	5,8	5,6	32
34							7,5	7,1	7,2	7	6,6	5,9	5,8	5,2	5	4,9	34
36							6,7	6,6	6,4	6,2	5,8	5,2	5,1	4,5	4,4	4,2	36
38								6	5,7	5,5	5,1	4,6	4,5	3,9	3,8	3,7	38
40								5,4	5,1	4,9	4,4	4	3,9	3,3	3,2	3,1	40
42								4,9	4,5	4,3	3,9	3,5	3,4	2,8	2,8	2,6	42
44									4	3,8	3,4	3	3	2,4	2,3	2,2	44
46									3,6	3,3	2,9	2,5	2,6	2	1,9	1,8	46
48										2,9	2,5	2,1	2,2	1,6	1,5		48
50											2,5	2,1	1,7	1,8			50
52												1,7					52

t_210_00014_01_000

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

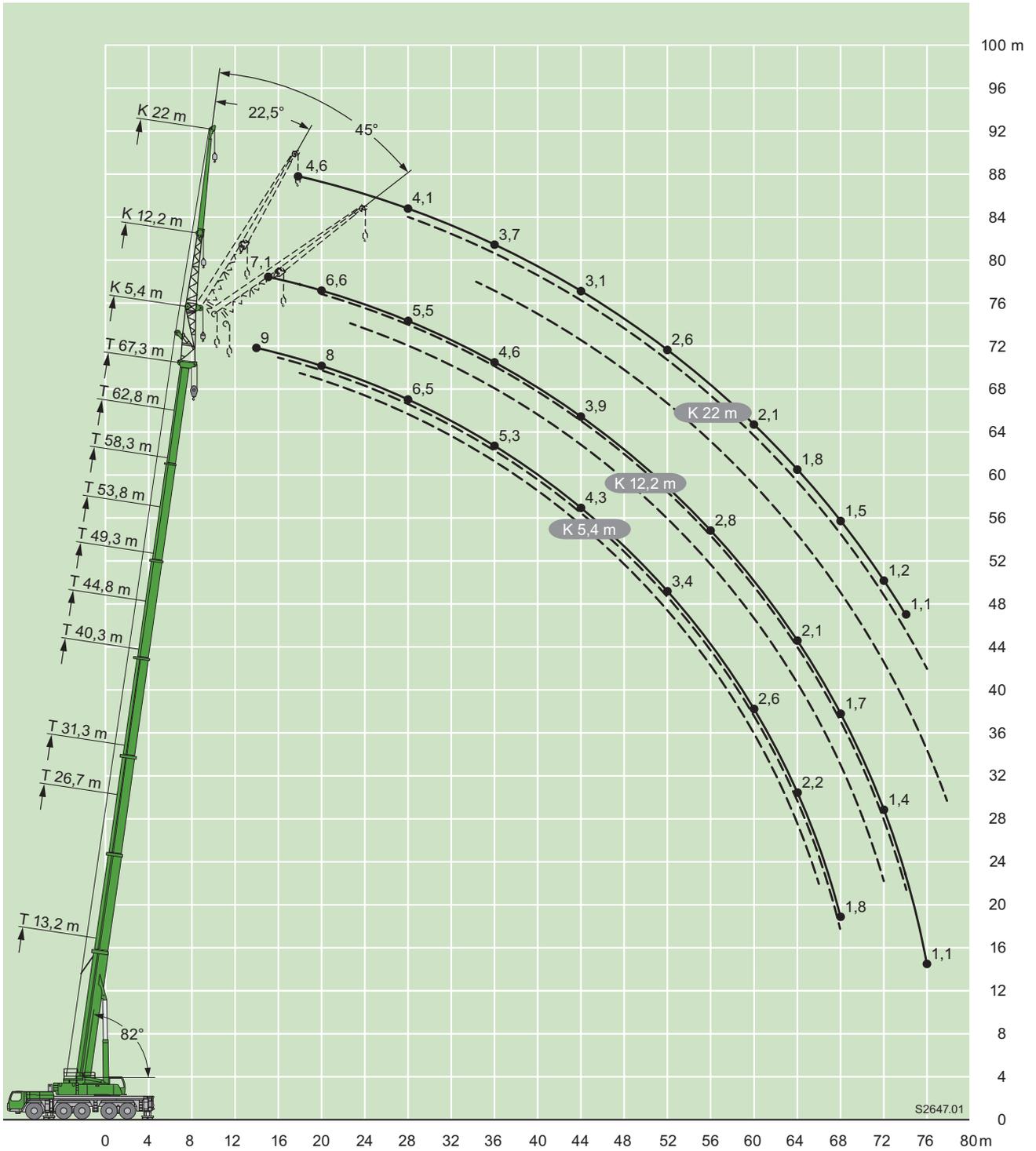
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Heights



Crawler Crane

- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2

Rough Terrain Crane

- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL
- 60t GR-600EX
- 80t GR-800EX

All Terrain Crane

- 160t ATF160G-5
- 200t LTM1200-5.1
- 220t ATF220G-5

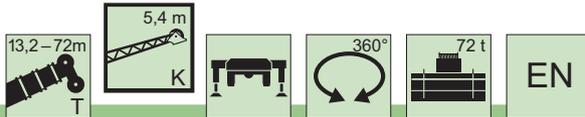
Aerial Platform

- Boom Lift
- Scissors Lift
- Others
- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

S2647.01

Lifting Capacities

200t
LTM1200-5.1



m	13,2 m			26,7 m			31,3 m			40,3 m			44,8 m			49,3 m			m
	5,4 m			5,4 m			5,4 m			5,4 m			5,4 m			5,4 m			
	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	
3	58,9																		3
3,5	57,3	44,6																	3,5
4	55,7	43,2																	4
4,5	53,8	42	35,6	58,5															4,5
5	51,9	40,8	34,7	57,3															5
6	48,1	38,3	32,8	54,8	41,9			38											6
7	44,5	35,6	31,2	52,5	39,8	32,4	35,7	29,6											7
8	41	33,4	29,6	50,2	38	31,3	33,5	27,9	24,6	33,9									8
9	37,5	31,4	28,5	48	36,5	30,5	31,4	26,5	23,4	32,4	27,4		30						9
10	34,7	29,6	27,4	45,2	35	29,6	29,4	25,2	22,5	31	26,2	20,9	29,3			24,1			10
11	32,2	28,1	26,5	42,3	33,8	28,8	27,8	23,9	21,6	29,7	25,1	20,9	28,5	24,8	20,9	23,4			11
12	29,9	26,7	25,9	39,6	32,6	28,2	26,4	22,8	20,7	28,3	24,2	20,7	27,4	23,8	20,9	22,6	22,5		12
13	28,1	25,6	25,4	37,3	31,6	27,5	25	21,8	20	27	23,2	20,4	26,1	23	20,9	21,8	21,6	20,3	13
14	26,3	24,7	14,2	35,2	30,6	26,9	23,6	20,9	19,3	25,8	22,3	20,1	24,8	22,3	20,5	20,9	20,8	19,9	14
15	24,9	24	5,8	33,1	29,6	26,5	22,5	20	18,6	24,8	21,5	19,8	23,5	21,6	20	20	19,9	19,4	15
16	23,7	8,2		31,3	28,7	26	21,6	19,2	18	23,9	20,9	19,4	22,3	20,9	19,4	19,2	19	18,7	16
17				29,7	27,8	25,6	20,7	18,6	17,5	22,9	20,2	18,9	21,2	20,2	18,9	18,2	18,2	18	17
18				28,2	26,9	25,1	19,8	18	17	22	19,5	18,4	20,2	19,4	18,4	17,5	17,3	17,2	18
19				26,7	25,9	24,3	18,9	17,3	16,5	21,2	18,9	17,9	19,2	18,7	17,9	16,7	16,5	16,5	19
20				25,4	24,9	23,5	18,1	16,7	16	20,5	18,3	17,5	18,3	17,9	17,4	16	15,8	15,8	20
21				24,3	24	22,7	17,5	16,1	15,6	19,9	17,9	17,1	17,4	17,2	16,9	15,3	15,2	15,2	21
22				23,2	23	21,9	16,9	15,7	15,2	19,3	17,4	16,7	16,5	16,4	16,4	14,6	14,5	14,6	22
23				22,2	22	21,2	16,3	15,3	14,9	18,6	17	16,4	15,9	15,8	15,8	13,9	13,9	14	23
24				21,2	21,1	20,4	15,7	14,8	14,6	18	16,5	16	15,3	15,2	15,3	13,2	13,3	13,4	24
26				19,6	19,5	9,4	14,7	14,1	14	16,9	15,6	15,3	14	14	14,1	12,3	12,2	12,3	26
28				18	17,4		13,9	13,5	13,6	16	15	14,8	12,8	12,8	13	11,3	11,3	11,4	28
30							13,2	13	9,1	15,2	14,4	14,3	11,7	11,8	11,9	10,4	10,4	10,5	30
32							12,7	12,7	5,1	14,1	13,8	13,9	10,8	10,9	11	9,4	9,5	9,6	32
34							11,7			12,7	12,9	13	10	10	10,1	8,7	8,8	8,9	34
36										11,5	11,7	11,7	9,1	9,1	9,3	8,1	8,1	8,2	36
38										10,4	10,6	8,6	8,5	8,5	8,6	7,4	7,5	7,6	38
40										9,4	9,5	5,5	7,9	7,9	8	6,8	6,9	6,9	40
42										8,6			7,3	7,3	7,4	6,4	6,4	6,5	42
44													6,8	6,8	5,6	5,9	6	6	44
46													6,3	6,4		5,5	5,6	5,6	46
48																5,2	5,2	5,2	48
50																4,8	4,8		50
52																3,7			52

t_210_11011_01_000 / 11211_01_000 / 11411_01_000

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

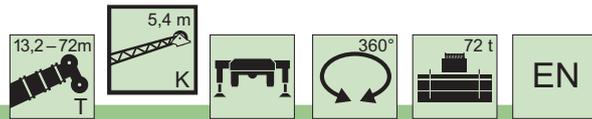
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



m	53.8 m			58.3 m			62.8 m			67.3 m			72 m			m
	5.4 m			5.4 m			5.4 m			5.4 m			5.4 m			
	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	0°	22.5°	45°	
11	19															11
12	18,6			15,2												12
13	18,1	17,9		14,9			12,3									13
14	17,6	17,3	17,2	14,6	14,4		12			9						14
15	17,1	16,7	16,6	14,2	14	13,8	11,8	11,7		8,9			7,3			15
16	16,4	16,1	16	13,9	13,6	13,4	11,5	11,3	11,3	8,7	8,6		7,2			16
17	15,8	15,5	15,4	13,4	13,1	13	11,2	11	10,9	8,6	8,4	8,4	7	7		17
18	15,2	15	14,8	13	12,7	12,6	10,9	10,6	10,6	8,4	8,2	8,2	6,9	6,9	6,8	18
19	14,6	14,4	14,3	12,6	12,3	12,2	10,6	10,3	10,2	8,2	8	8	6,8	6,8	6,7	19
20	14	13,8	13,8	12,1	12	11,8	10,2	10	9,9	8	7,8	7,8	6,7	6,6	6,6	20
21	13,5	13,3	13,3	11,7	11,6	11,4	9,9	9,7	9,6	7,8	7,6	7,6	6,5	6,5	6,4	21
22	13	12,8	12,8	11,3	11,2	11	9,6	9,4	9,3	7,6	7,5	7,4	6,4	6,3	6,3	22
23	12,5	12,3	12,3	10,9	10,8	10,6	9,2	9,1	9	7,4	7,3	7,2	6,2	6,2	6,2	23
24	12	11,8	11,8	10,5	10,4	10,2	8,9	8,8	8,7	7,2	7,1	7,1	6,1	6	6	24
26	11	10,9	10,9	9,7	9,7	9,6	8,4	8,2	8,2	6,8	6,7	6,7	5,8	5,8	5,8	26
28	10,2	10	10	9	9	8,9	7,8	7,8	7,7	6,5	6,4	6,4	5,5	5,5	5,5	28
30	9,4	9,3	9,3	8,3	8,3	8,3	7,3	7,3	7,3	6,2	6,1	6,1	5,2	5,2	5,2	30
32	8,6	8,6	8,6	7,7	7,7	7,7	6,8	6,8	6,8	5,9	5,8	5,8	4,8	4,9	4,9	32
34	7,9	7,9	8	7,2	7,2	7,2	6,4	6,4	6,4	5,6	5,5	5,6	4,5	4,5	4,6	34
36	7,2	7,2	7,3	6,6	6,7	6,7	6,1	6,1	6,1	5,3	5,3	5,3	4,1	4,2	4,3	36
38	6,7	6,8	6,8	6,1	6,2	6,2	5,7	5,7	5,7	5,1	5	5	3,8	3,9	4	38
40	6,3	6,3	6,3	5,7	5,7	5,8	5,3	5,3	5,4	4,8	4,8	4,8	3,5	3,6	3,7	40
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46	5	5,1	5,1	4,6	4,7	4,7	4,3	4,4	4,4	4,1	4,1	4,1	2,6	2,7	2,8	46
48	4,7	4,7	4,7	4,3	4,3	4,3	4	4,1	4,1	3,8	3,9	3,9	2,4	2,4	2,5	48
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52	4	4,1	4,1	3,7	3,8	3,8	3,5	3,5	3,5	3,4	3,4	3,4	1,9	1,9	2	52
54	3,8	3,8		3,5	3,5	3,5	3,3	3,3	3,3	3,2	3,2	3,2	1,7	1,7	1,7	54
56	3,3			3,2	3,2	3,2	3	3,1	3,1	2,9	3	3	1,4	1,5	1,5	56
58				3	3		2,8	2,8	2,8	2,8	2,8	2,8	1,2	1,3	1,3	58
60				2,6			2,6	2,6	2,6	2,6	2,6	2,6				60
62							2,5	2,5		2,4	2,4	2,4				62
64							2,4			2,2	2,2	2,2				64
66										2	2,1	2				66
68										1,8	1,8					68

t_210_11011_01_000 / 11211_01_000 / 11411_01_000

Crawler Crane

55t
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Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

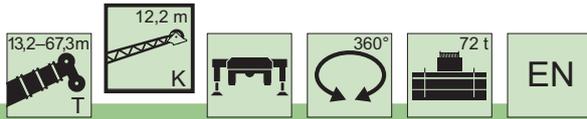
Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader



m	13,2 m			26,7 m			31,3 m			40,3 m			44,8 m			49,3 m			m
	12,2 m			12,2 m			12,2 m			12,2 m			12,2 m			12,2 m			
	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	
3	20,9																		3
3,5	20,9																		3,5
4	20,9																		4
4,5	20,9			20,9															4,5
5	20,9			20,9															5
6	20,8			20,9			20,9												6
7	20,6	14,5		20,9			20,9												7
8	20,4	13,6		20,9			20,8			20,9									8
9	19,2	12,7		20,9	14,4		20,5			20,9			19,8						9
10	17,7	12	10,1	20,7	13,7		20,2	13,7		20,8			19,7			17,3			10
11	16,1	11,4	9,7	20,1	13,2		20	13,1		20,4			19,7			17,3			11
12	14,6	10,8	9,3	19,5	12,7	10	19,6	12,6		19,8	13,1		19,5			17,2			12
13	13,5	10,3	9	18,8	12,2	9,8	18,7	12,2	9,7	19,2	12,7		19	12,6		17,2			13
14	12,7	9,7	8,8	18,2	11,7	9,5	17,7	11,8	9,5	18,6	12,3		18,4	12,2		17			14
15	11,8	9,2	8,5	17,4	11,3	9,3	16,8	11,5	9,3	18	11,9	9,5	17,7	11,9		16,6	11,7		15
16	11	8,8	8,4	16,6	10,9	9,1	15,9	11,1	9,1	17,3	11,6	9,3	17,1	11,6	9,3	16,1	11,5		16
17	10,3	8,5	8,2	15,8	10,4	9	15	10,8	9	16,7	11,3	9,1	16,5	11,4	9,2	15,6	11,2		17
18	9,7	8,2	8,1	15	10,1	8,8	14,4	10,5	8,8	16	11	9	16	11,1	9	15,2	11	9	18
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23	7,3			11,7	8,8	8,2	11,7	9,2	8,3	13,2	9,9	8,5	13,4	9,9	8,5	12,8	10	8,5	23
24				11,2	8,6	8,1	11,3	8,9	8,2	12,8	9,7	8,4	13	9,7	8,4	12,3	9,8	8,4	24
26				10,2	8,2	8	10,5	8,5	8	12	9,2	8,2	12,2	9,3	8,3	11,3	9,4	8,2	26
28				9,5	7,8	8	9,7	8,2	7,9	11,1	8,8	8,1	11,5	8,9	8,1	10,5	9	8,1	28
30				8,8	7,6	8	9	7,9	7,8	10,4	8,5	8	10,8	8,6	8	9,8	8,6	8	30
32				8,2	7,4	7	8,5	7,6	7,7	9,9	8,2	7,9	10,1	8,4	8	9	8,3	7,8	32
34				7,7	7,4	3	8	7,4	7,5	9,3	8	7,8	9,4	8,1	7,9	8,3	7,9	7,6	34
36				7,4	6,8		7,5	7,1	5,8	8,8	7,7	7,7	8,8	7,9	7,8	7,6	7,6	7,4	36
38							7,2	6,9	3,1	8,4	7,5	7,5	8,2	7,7	7,6	7,1	7,1	7,2	38
40							6,9			8	7,3	7,4	7,6	7,5	7,5	6,7	6,7	6,8	40
42										7,7	7,1	7,3	7	7,1	7,3	6,2	6,3	6,4	42
44										7,3	7	5,3	6,6	6,7	6,8	5,8	5,9	6	44
46										7,1	6,8	3,2	6,2	6,3	6,4	5,4	5,5	5,6	46
48										6,9	2,8		5,8	5,9	5,1	5,1	5,2	5,3	48
50										3,8			5,5	5,6	3,3	4,8	4,9	4,9	50
52													5,2	5,2	2,1	4,4	4,5	4,6	52
54													4,3			4,2	4,2	3,3	54
56																3,9	4	2,3	56
58																3,5	2,9		58

t_210_12011_01_000 / 12211_01_000 / 12411_01_000

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
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60t
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All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

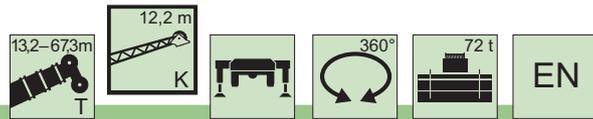
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



m	53,8 m			58,3 m			62,8 m			67,3 m			m
	12,2 m			12,2 m			12,2 m			12,2 m			
	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	
12	14,5												12
13	14,4			11,9									13
14	14,2			11,7			8,9						14
15	14			11,5			8,8			7,1			15
16	13,8	10,5		11,4			8,7			7			16
17	13,4	10,5		11,2	10,1		8,6			6,9			17
18	13	10,5		10,9	9,9		8,5	7,9		6,8			18
19	12,6	10,5	8,7	10,6	9,6		8,3	7,8		6,7			19
20	12,2	10,4	8,6	10,3	9,3	8,4	8,1	7,6		6,6	6,3		20
21	11,8	10,2	8,5	10	9,1	8,3	7,9	7,4		6,5	6,2		21
22	11,4	10,1	8,4	9,6	8,8	8,3	7,7	7,2	7	6,4	6		22
23	11,1	9,9	8,4	9,3	8,6	8,2	7,5	7	6,8	6,2	5,9	5,7	23
24	10,7	9,8	8,3	9	8,3	8,1	7,3	6,9	6,7	6,1	5,8	5,6	24
26	9,9	9,4	8,2	8,5	7,9	7,7	6,8	6,6	6,4	5,8	5,6	5,4	26
28	9,2	8,9	8	7,9	7,4	7,3	6,5	6,3	6,1	5,5	5,3	5,2	28
30	8,5	8,3	7,8	7,4	7,1	7	6,2	6	5,9	5,3	5,1	5	30
32	7,9	7,8	7,5	6,9	6,7	6,6	5,9	5,8	5,7	5,1	4,9	4,8	32
34	7,4	7,3	7,3	6,5	6,4	6,3	5,6	5,5	5,4	4,8	4,7	4,6	34
36	6,9	6,9	6,9	6,1	6	6	5,3	5,2	5,2	4,6	4,5	4,5	36
38	6,3	6,5	6,5	5,7	5,7	5,8	5,1	5	5	4,4	4,3	4,3	38
40	5,8	6	6,1	5,4	5,4	5,5	4,8	4,7	4,8	4,2	4,2	4,1	40
42	5,5	5,6	5,7	5	5,1	5,2	4,6	4,5	4,6	4	4	4	42
44	5,2	5,3	5,4	4,7	4,8	4,9	4,3	4,3	4,4	3,9	3,8	3,8	44
46	4,8	5	5,1	4,4	4,5	4,6	4,1	4,1	4,2	3,7	3,7	3,7	46
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52	4	4,1	4,1	3,6	3,7	3,8	3,4	3,5	3,5	3,1	3,2	3,2	52
54	3,7	3,8	3,9	3,3	3,5	3,5	3,2	3,2	3,3	2,9	3	3	54
56	3,4	3,6	3,6	3,1	3,2	3,3	2,9	3	3,1	2,8	2,8	2,9	56
58	3,2	3,3	3,3	2,9	3	3,1	2,7	2,8	2,9	2,6	2,7	2,7	58
60	3	3,1	2,4	2,7	2,8	2,8	2,5	2,6	2,7	2,4	2,5	2,5	60
62	2,6	2,7		2,5	2,6	2,6	2,4	2,4	2,5	2,2	2,3	2,4	62
64				2,3	2,4	2,4	2,2	2,3	2,3	2,1	2,1	2,2	64
66				2	2,1		2	2,1	2,1	1,9	2	2	66
68				1,3			1,9	1,9	1,9	1,7	1,8	1,8	68
70							1,8	1,8		1,6	1,6	1,6	70
72							1,7			1,4	1,5	1,5	72
74										1,3	1,4		74
76										1,1			76

t_210_12011_01_000 / 12211_01_000 / 12411_01_000

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
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Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

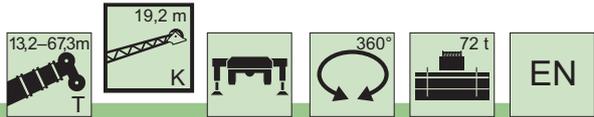
Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader



m	13,2 m			26,7 m			31,3 m			40,3 m			44,8 m			49,3 m			m
	19,2 m																		
	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	
3,5	18,8																		3,5
4	19																		4
4,5	19,2																		4,5
5	19,3																		5
6	18,6			16,5															6
7	17,9			16,8			14,3												7
8	17,2			17			14,4												8
9	16,3			16,6			14,6			13,1									9
10	15,3			16,3			14,5			13,2			12,1						10
11	14,2	10,8		15,9			14,1			13,2			12,1			10,3			11
12	13	10,3		15,5			13,7			13,3			12,2			10,4			12
13	12,1	9,8		15			13,2			13,1			12,3			10,4			13
14	11,1	9,3		14,4	10,5		12,8			12,8			12,2			10,5			14
15	10,3	8,9		13,9	10,5		12,4	9,3		12,5			12			10,5			15
16	9,6	8,5	7,5	13,3	10,3		11,8	8,9		12,2			11,8			10,4			16
17	9	8,2	7,3	12,7	9,9		11,3	8,6		11,9	8,8		11,5			10,3			17
18	8,4	7,9	7,1	12,2	9,5		10,8	8,3		11,6	8,6		11,3	8,5		10,2			18
19	7,9	7,6	6,9	11,7	9,2	7,2	10,3	8		11,2	8,3		11,1	8,3		10,1	8,1		19
20	7,4	7,3	6,8	11,2	9	7,1	9,8	7,8	6,5	10,8	8,1		10,8	8,1		10	7,9		20
21	7	7,1	6,6	10,6	8,7	7	9,4	7,5	6,3	10,4	7,9		10,5	7,9		9,9	7,7		21
22	6,6	6,8	6,5	10,1	8,5	6,9	9	7,3	6,2	10	7,7	6,3	10,1	7,7		9,7	7,5		22
23	6,2	6,6	6,4	9,6	8,2	6,8	8,7	7,1	6,1	9,6	7,4	6,2	9,8	7,5	6,2	9,6	7,4		23
24	5,9	6,5	6,3	9,1	8	6,7	8,4	6,9	6	9,2	7,3	6,1	9,5	7,3	6,1	9,4	7,2	6	24
26	5,4	6,1	6,1	8,3	7,6	6,5	7,7	6,6	5,8	8,6	6,9	5,9	8,8	7	5,9	8,9	6,9	5,9	26
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30	4,7			7,1	6,9	6,3	6,7	6	5,4	7,6	6,3	5,6	7,8	6,4	5,6	7,9	6,4	5,6	30
32				6,6	6,6	6,2	6,3	5,7	5,3	7,1	6,1	5,4	7,4	6,2	5,5	7,5	6,2	5,5	32
34				6,1	6,4	6,1	5,9	5,5	5,1	6,7	5,9	5,3	7	6	5,4	7,1	6	5,3	34
36				5,7	6,1	6,1	5,6	5,2	5	6,4	5,6	5,2	6,6	5,8	5,2	6,8	5,8	5,2	36
38				5,3	5,9	6,1	5,4	5	4,9	6,1	5,4	5,1	6,3	5,6	5,1	6,4	5,6	5,1	38
40				5	5,8	4,1	5,1	4,9	4,8	5,8	5,3	5	6	5,4	5,1	6,1	5,4	5,1	40
42				4,8	5,8		4,9	4,7	4,8	5,5	5,1	4,9	5,8	5,2	5	5,8	5,3	5	42
44							4,7	4,6	4	5,3	4,9	4,8	5,6	5,1	4,9	5,5	5,1	4,9	44
46							4,5	4,5		5,1	4,8	4,8	5,3	4,9	4,8	5,2	4,9	4,8	46
48							4,5			4,9	4,7	4,8	5,1	4,8	4,8	4,9	4,8	4,7	48
50										4,7	4,6	4,8	4,9	4,7	4,8	4,5	4,6	4,6	50
52										4,6	4,5	3,9	4,8	4,6	4,8	4,3	4,4	4,5	52
54										4,5	4,5		4,6	4,5	4,7	4	4,2	4,2	54
56										4,4	4,5		4,4	4,4	3,9	3,8	3,9	4	56
58													4,1	4,2	2,2	3,5	3,7	3,7	58
60													3,8	3,9		3,3	3,4	3,4	60
62																3,1	3,2	2,4	62
64																2,7	2,9		64
66																1,4			66

t_210_13011_01_000 / 13211_01_000 / 13411_01_000

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

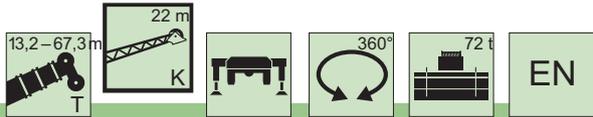
Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader



m	13,2 m			26,7 m			31,3 m			40,3 m			44,8 m			49,3 m			m
	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	
3,5	12,1																		3,5
4	12,2																		4
4,5	12,2																		4,5
5	12,3																		5
6	12			11,2															6
7	11,7			11,3			9,5												7
8	11,4			11,3			9,6												8
9	11,1			11,2			9,7			8,9									9
10	10,6			11			9,7			9			8,4						10
11	10,1			10,8			9,6			9,1			8,5			7,8			11
12	9,7	7,8		10,6			9,5			9,1			8,6			7,9			12
13	9,2	7,6		10,4			9,4			9,1			8,6			8			13
14	8,9	7,3		10,1			9,3			9			8,6			8			14
15	8,5	7,1		9,8	7,4		9,2			8,9			8,6			8,1			15
16	8,1	6,8		9,5	7,2		9	7,1		8,8			8,5			8			16
17	7,7	6,6		9,2	7,1		8,8	6,9		8,8			8,4			8			17
18	7,3	6,4	5,5	8,9	6,9		8,6	6,8		8,7	6,8		8,3			7,9			18
19	6,9	6,2	5,4	8,6	6,7		8,4	6,6		8,5	6,7		8,3	6,6		7,8			19
20	6,5	6	5,3	8,3	6,6		8,2	6,5		8,4	6,6		8,2	6,5		7,7	6,4		20
21	6,2	5,9	5,2	8,1	6,5	5,4	8	6,4		8,2	6,5		8,1	6,4		7,7	6,3		21
22	5,9	5,7	5,2	7,8	6,3	5,3	7,8	6,3	5,3	8	6,4		7,9	6,3		7,6	6,2		22
23	5,6	5,6	5,1	7,6	6,2	5,3	7,6	6,2	5,2	7,9	6,3		7,8	6,2		7,5	6,1		23
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26	4,9	5,3	4,9	6,9	5,9	5,1	7,1	5,8	5,1	7,4	6	5,1	7,4	6	5,1	7,2	5,9	5	26
28	4,5	5,1	4,9	6,5	5,7	5	6,7	5,6	5	7,1	5,8	5	7,1	5,8	5	7	5,8	5	28
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32	3,9	5		5,8	5,3	4,9	6	5,2	4,7	6,5	5,5	4,8	6,6	5,5	4,9	6,5	5,5	4,8	32
34				5,4	5,2	4,9	5,7	5	4,6	6,2	5,3	4,7	6,3	5,4	4,8	6,3	5,3	4,7	34
36				5	5,1	4,9	5,4	4,8	4,5	6	5,1	4,6	6,1	5,2	4,7	6,1	5,2	4,7	36
38				4,7	5	4,9	5,1	4,6	4,4	5,7	5	4,6	5,9	5	4,6	5,9	5	4,6	38
40				4,5	4,9	4,9	4,9	4,5	4,4	5,5	4,8	4,5	5,6	4,9	4,5	5,7	4,9	4,5	40
42				4,2	4,9	4,9	4,6	4,3	4,3	5,2	4,7	4,4	5,4	4,7	4,4	5,5	4,8	4,4	42
44				4	4,9		4,4	4,2	4,3	5	4,5	4,3	5,2	4,6	4,4	5,3	4,7	4,4	44
46				3,9			4,3	4,1	4,3	4,8	4,4	4,3	5	4,5	4,3	5	4,5	4,3	46
48							4,1	4,1		4,6	4,3	4,3	4,8	4,4	4,3	4,8	4,4	4,3	48
50							3,9	4,1		4,5	4,2	4,2	4,7	4,3	4,2	4,5	4,3	4,2	50
52										4,3	4,1	4,2	4,5	4,2	4,2	4,3	4,2	4,2	52
54										4,2	4	4,2	4,4	4,1	4,2	4	4,1	4,2	54
56										4,1	4	2,5	4,2	4,1	4,2	3,8	3,9	4	56
58										4	4		4,1	4	4,2	3,6	3,7	3,8	58
60													3,9	3,9	2,7	3,4	3,5	3,6	60
62													3,7	3,8		3,2	3,3	3,3	62
64													2,6			3	3,1	2,8	64
66																2,7	2,8		66
68																2,3			68

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Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

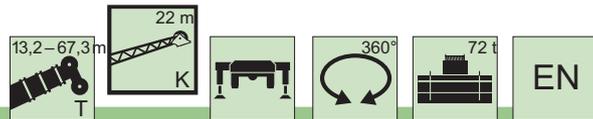
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



m	53,8 m			58,3 m			62,8 m			67,3 m			m
	22 m			22 m			22 m			22 m			
	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	0°	22,5°	45°	
13	7,2												13
14	7,2			6,4									14
15	7,3			6,4			5,5						15
16	7,3			6,4			5,5						16
17	7,4			6,4			5,5			4,6			17
18	7,3			6,4			5,4			4,5			18
19	7,3			6,5			5,4			4,5			19
20	7,2			6,4			5,4			4,4			20
21	7,1			6,4			5,3			4,4			21
22	7,1	6		6,3			5,3			4,4			22
23	7	6		6,3	5,7		5,2			4,3			23
24	6,9	5,9		6,2	5,6		5,2			4,3			24
26	6,8	5,8		6,2	5,5		5,1	5		4,2			26
28	6,6	5,6	4,9	6	5,4		5	4,8		4,1	3,9		28
30	6,4	5,5	4,9	5,9	5,3	4,8	4,9	4,6		4	3,8		30
32	6,3	5,4	4,8	5,6	5,2	4,7	4,7	4,4	4,4	3,9	3,6		32
34	6,1	5,3	4,7	5,4	5,1	4,6	4,5	4,3	4,2	3,8	3,5	3,4	34
36	5,9	5,1	4,6	5,1	4,9	4,5	4,3	4,1	4,1	3,7	3,4	3,3	36
38	5,6	5	4,5	4,9	4,8	4,5	4,2	4	3,9	3,5	3,3	3,2	38
40	5,3	4,9	4,5	4,6	4,6	4,4	4	3,8	3,8	3,4	3,2	3,1	40
42	5	4,7	4,4	4,4	4,4	4,3	3,8	3,7	3,6	3,2	3,1	3	42
44	4,8	4,6	4,3	4,2	4,2	4,2	3,6	3,5	3,5	3,1	3	2,9	44
46	4,5	4,4	4,3	4	4	4,1	3,5	3,4	3,4	3	2,9	2,8	46
48	4,2	4,3	4,2	3,8	3,8	3,9	3,3	3,3	3,3	2,8	2,8	2,8	48
50	4	4,2	4,2	3,6	3,7	3,7	3,1	3,1	3,2	2,7	2,7	2,7	50
52	3,8	4	4,1	3,4	3,5	3,6	3	3	3,1	2,6	2,6	2,6	52
54	3,5	3,7	3,8	3,2	3,3	3,4	2,8	2,9	2,9	2,5	2,5	2,5	54
56	3,3	3,5	3,6	3	3,1	3,2	2,6	2,8	2,8	2,3	2,4	2,4	56
58	3,1	3,3	3,4	2,8	2,9	3,1	2,5	2,6	2,7	2,2	2,3	2,3	58
60	2,9	3,1	3,2	2,6	2,7	2,9	2,3	2,5	2,6	2,1	2,2	2,3	60
62	2,7	2,9	2,9	2,4	2,6	2,7	2,1	2,3	2,4	1,9	2,1	2,2	62
64	2,6	2,7	2,7	2,2	2,4	2,5	2	2,1	2,2	1,8	1,9	2,1	64
66	2,4	2,5	2,5	2,1	2,2	2,2	1,8	2	2,1	1,6	1,8	2	66
68	2,2	2,3	2,3	1,9	2	2	1,6	1,8	1,9	1,5	1,7	1,8	68
70	1,9	2,1		1,7	1,9	1,8	1,5	1,6	1,7	1,3	1,5	1,7	70
72	1,7	1,7		1,6	1,7	1,6	1,4	1,5	1,5	1,2	1,4	1,5	72
74				1,4	1,5		1,2	1,3	1,3	1,1	1,2	1,3	74
76				1,1	1,2		1,1	1,2	1,2		1,1	1,2	76
78							1	1,1	1,1			1	78

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Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

**Vibro Roller
Baby Roller**

Motor Grader

Features

Crane carrier	
Frame	Self-manufactured, weight-optimized and torsion resistant box-type design of high-tensile structural steel.
Outriggers	4-point supporting system, hydraulically telescopic into horizontal and vertical direction. Operation with remote control, automatic support leveling, electronic inclination display.
Engine	6-cylinder Diesel, make Liebherr, watercooled, output 370 kW (503 h.p.), max. torque 2355 Nm. Exhaust emissions acc. to 97/68/EG and EPA/CARB. Fuel reservoir: 474 l.
Transmission	ZF 12-speed gear box with automatic control system AS-TRONIC. ZF-intarder fitted directly to the gear. Two-stage transfer case with lockable transfer differential.
Axles	Low maintenance carrier axles, all 5 axles steered. Axle 2, 4 and 5 are equipped with planetary gears, all driven axles with transverse differential locks, axle 4 with longitudinal differential lock.
Suspension	All axles are mounted on hydropneumatic suspension – “Niveaumatik suspension” and are lockable hydraulically.
Tyres	10 tyres, size: 385/95 R 25 (14.00 R 25).
Steering	2-circuit system with hydraulic servo steering. Active speed depending rear axle steering, special steering programs for various driving situations.
Brakes	Service brake: all-wheel servo-air brake, all axles are equipped with disc brakes, dual circuit. Parking brake: Spring brake actuator, acting on the wheels of the 2 nd to 5 th axle. Sustained-action brakes: Engine brake as exhaust retarder with Liebherr additional brake system ZBS. Intarder on gear.
Driver's cab	Spacious and comfortable sheet steel cab mounted on rubber shock absorbers, safety glass windows.
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.

Crane superstructure	
Frame	Liebherr-manufactured, torsionally rigid steel construction made from high-tensile fine-grain steel. Triple-roller slewing rim.
Crane engine	4-cylinder Diesel, make Liebherr, watercooled, output 145 kW (197 h.p.), max. torque 920 Nm. Exhaust emissions acc. to 97/68/EG and EPA/CARB. Fuel reservoir: 250 l.
Crane drive	Diesel-hydraulic, with 5 axial piston variable displacement pumps, with servo-control and capacity control.
Control	Electronic control by the LICCON computer system (PLC control), 2 selfcentering hand control levers (joy-stick type), with winch and slewing gear signal devices. Infinitely variable crane motions.
Hoist gear	Axial piston variable displacement motor, Liebherr hoist drum with integrated planetary gear and spring-loaded static brake. Actuation by closed regulated oil circuit.
Luffing gear	1 differential ram with nonreturn valve.
Slewing gear	Axial piston fixed displacement motor, planetary gear, spring-loaded static brake.
Crane cab	Large screen area, compound glass, comfort furnishing, cabin tiltable 20° to rear.
Safety devices	LICCON2 safe load indicator, test system, hoist limit switch, safety valves to prevent pipe and hose ruptures.
Telescopic boom	1 base section and 6 telescopic sections. All telescopic sections extendable individually by means of the rapid-cycle telescoping system TELEMATIK. Boom length 13.2 m to 72 m.
Counterweight	72 t
Electrical system	Modern data bus technique, 24 Volt DC, 2 batteries of 170 Ah each.

Additional equipment	
Swing-away jib K/NZK	12.2 m – 36 m long, mountable to the telescopic boom at 0°, 22.5° or 45°, integrated erection jib of 5.4 m. Hydraulic ram for operating the swing-away jib from 0° – 45° (option).
Telescopic boom extension V	7 m long lattice section, thus 7 m higher pinning point for swing-away jib.
2 nd hoist gear	For two-hook operation or for operation with swing-away jib if the hoist rope shall remain reeved.
Tyres	10 tyres, size 445/95 R 25 (16.00 R 25) and 525/80 R 25 (20.5 R 25).
Drive 10 x 8	Additional drive of the 1 st axle.

Other items of equipment available on request.

200t
LTM1200-5.1

Crawler Crane

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Rough Terrain Crane

25t
GR-250N-2

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GR-300EX

50t
GR-500EXL

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GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

General Symbols

	Outriggers		Driving speed
	Axle		Driving speed – Crawl speed
	Radius		Gear
	Boom length		Hookblock / Capacity
	Boom position		Hoist gear
	Counterweight		Crane carrier
	Tyres		Crane superstructure
	Slewing gear / Working area		Gradability
	Standard		

Crawler Crane

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Rough Terrain Crane

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All Terrain Crane

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ATF160G-5

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Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

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Motor Grader

Crane Specific Symbols

	Telescopic boom		Telescopic boom extension
	Mechanical swing away jib		Hydraulic swing away jib

All Terrain Crane 220t ATF220G-5

Manual PDF

**All Terrain Crane
220t ATF220G-5
(TADANO)**



Crawler Crane

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7055

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All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

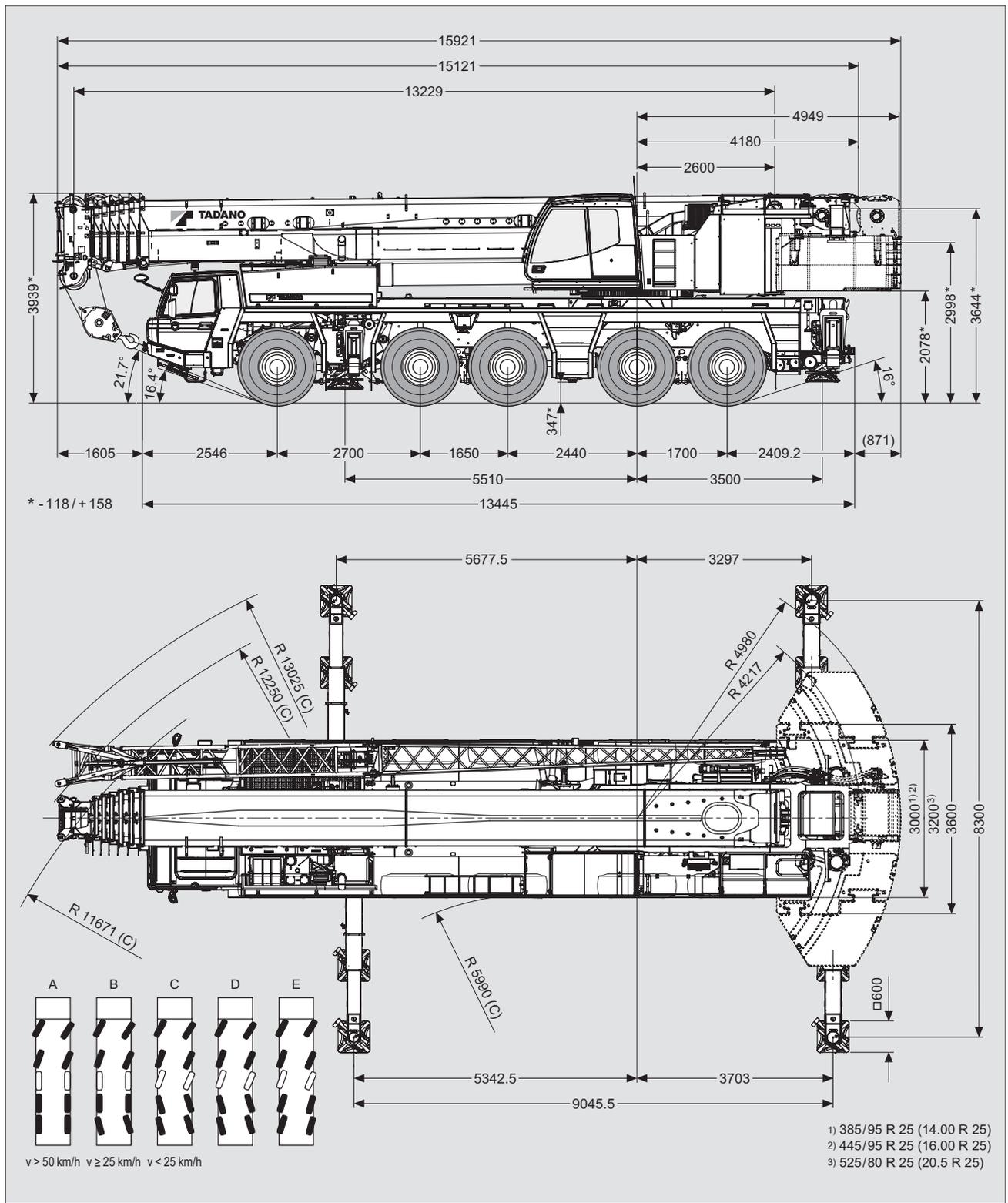
Vibro Roller
Baby Roller

Motor Grader

Dimensions

385/95 R 25
(14.00 R 25)

DIN/ISO/EN



Crawler Crane

- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2

Rough Terrain Crane

- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL
- 60t GR-600EX
- 80t GR-800EX

All Terrain Crane

- 160t ATF160G-5
- 200t LTM1200-5.1
- 220t ATF220G-5

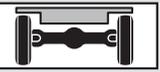
Aerial Platform

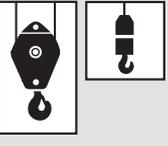
- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Weights / Working Speeds

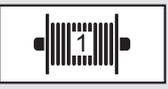
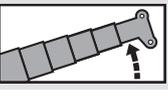
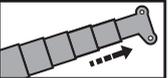
	Achse /Axle Essieu / Eje	1	2	3	4	5	Gesamtgewicht / Total weight Poids total / Peso total
	(t)	12	12	12	12	12	60

	Traglast / Lifting capacity / Force de levage / Capacidad de elevación	Rollen / Sheaves Pulies / Poleas	Stränge / Parts of line Brins / Ramales de cable	Gewicht / Weight Poid / Peso
	* Doppelhaken * Rams horn * Moufle avec crochet marin * Gancho doble	151.1 t (Typ / Type / Typo 160)*	9	16
	123.9 t (Typ / Type / Typo 125)*	7	13	1350 kg
	77.4 t (Typ / Type / Typo 80)*	5	8	1150 kg
	58.4 t (Typ / Type / Typo 63)*	3	6	850 kg
	58.4 t (Typ / Type / Typo 63)	3	6	850 kg
	29.4 t (Typ / Type / Typo 32)	1	3	450 kg
	10 t (Typ / Type / Typo 10)	–	1	300 kg



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	R1	R2	
	385/95 R 25 (14.00 R 25) km/h	2	3	3	4	5	6	7	8	10	13	15	19	22	27	32	39	3	
	5	6	8	9	11	14	16	20	24	29	35	43	52	62	74	85	6	7	52%
445/95 R 25 (16.00 R 25) km/h	3	3	4	4	5	7	8	9	11	14	17	20	24	30	35	42	3	3	61%*
	6	7	8	10	12	15	18	21	26	31	38	46	56	68	80	85	6	7	47%

* Mit Geländeübersetzung * Avec mode tout terrain
* Off road range * Con transmisión todo terreno

V+ 	Stufenlos Infinitely variable Progressivement variable Infinitamente variable	Seil Rope Câble Cable	Max. Seilzug Max. single line pull Effort maxi au brin simple Trio máximo por ramal
	0 - 128 m/min für einfachen Strang single line au brin simple ramal simple	21 mm / 320 m	98 kN
	0 - 128 m/min für einfachen Strang single line au brin simple ramal simple	21 mm / 320 m	98 kN
	0 - 1.2 min ⁻¹		
	-1.5° – +84° ca. 50 s approx. 50 s env. 50 s aproximadamente 50 s		
	13.2 m – 68.0 m ca. 500 s approx. 500 s env. 500 s aproximadamente 500 s		

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

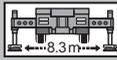
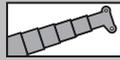
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Heights



71t

DIN/ISO/EN

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1

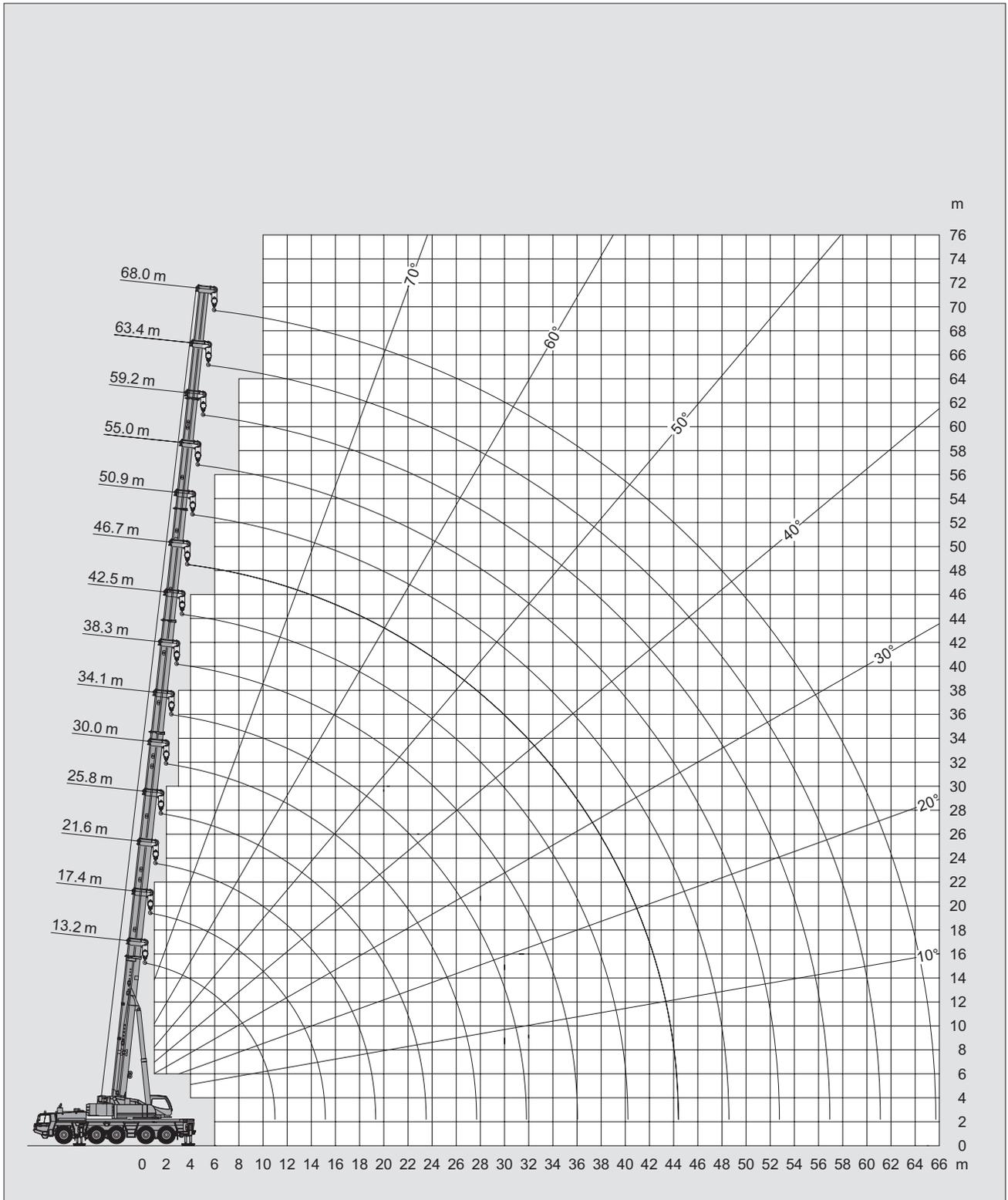
**220t
ATF220G-5**

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader



Lifting Capacities

220t
ATF220G-5

71t

DIN/ISO/EN

	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
2.5	220.0**														
3.0	180.0**	176.5**	140.0**	140.0**	114.0**										
3.5	169.5**	160.0**	140.0**	140.0**	114.0**	90.5									
4.0	160.0**	150.5**	140.0**	140.0**	108.5	90.5									
4.5	150.5**	138.0**	137.5**	136.5**	103.5	90.5	70.0								
5.0	135.5**	127.0**	126.5**	126.0**	103.0	87.0	70.0	54.5							
6.0	112.5	109.0	109.0	108.0	103.0	79.8	70.0	54.5	43.5						
7.0	96.3	95.5	95.1	94.2	94.9	77.5	66.2	54.5	43.5	34.5					
8.0	83.6	83.6	83.2	82.4	83.0	77.5	61.2	54.5	43.5	34.5	28.5				
9.0	73.5	73.5	73.1	72.2	72.8	73.6	58.0	52.0	43.4	34.5	28.5	23.0			
10.0	65.4	65.4	64.9	64.0	64.6	65.4	58.0	48.9	41.4	34.5	28.5	23.0	18.8		
11.0			58.2	57.4	57.9	58.6	56.7	45.7	39.4	34.1	28.5	23.0	18.8	15.0	
12.0			52.6	51.8	52.3	53.0	54.0	42.8	37.6	32.6	28.3	23.0	18.8	15.0	13.8
14.0			43.9	43.1	43.6	44.3	45.1	40.0	35.6	30.0	26.8	22.8	18.8	15.0	13.8
16.0				36.6	37.0	37.7	38.5	37.3	32.4	28.5	24.9	21.8	18.8	15.0	13.8
18.0				31.6	31.9	32.6	33.4	34.1	29.3	26.4	23.1	20.4	18.3	15.0	13.4
20.0					27.5	28.3	30.4	30.0	26.8	24.5	21.5	19.1	17.2	15.0	13.1
22.0					23.7	26.2	27.0	26.2	24.6	22.9	20.1	17.8	16.2	14.8	12.8
24.0						24.1	23.7	22.9	22.1	21.2	18.8	16.7	15.2	14.0	12.5
26.0						21.5	21.0	20.2	19.4	19.2	17.6	15.7	14.4	13.3	12.2
28.0							18.7	17.9	17.2	17.0	16.6	14.8	13.6	12.6	11.4
30.0							16.8	16.0	16.2	15.1	15.2	14.0	12.8	11.9	10.6
32.0								14.4	15.0	13.4	13.6	13.2	12.1	11.3	9.9
34.0								13.0	13.6	12.0	12.5	12.5	11.5	10.8	9.3
36.0									12.4	11.5	12.0	11.2	10.9	10.2	8.7
38.0									11.3	11.0	10.9	10.1	10.4	9.8	8.2
40.0										10.6	9.9	9.3	9.4	9.3	7.7
42.0										9.8	9.0	8.7	8.6	8.5	7.3
44.0										8.1	8.3	8.2	7.9	8.0	6.8
46.0											7.6	7.6	7.5	7.5	6.4
48.0											7.0	7.0	7.1	6.8	6.1
50.0												6.4	6.7	6.2	5.7
52.0												5.9	6.2	5.7	5.4
54.0													5.7	5.2	5.1
56.0													5.3	4.7	4.7
58.0														4.3	4.2
60.0														3.9	3.9
62.0															3.5
64.0															3.2

* Over rear
** With additional lifting equipment

47t

DIN/ISO/EN

	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
3.0	180.0**	174.5**	140.0**	140.0**	114.0**										
3.5	169.5**	157.0**	140.0**	140.0**	114.0**	90.5									
4.0	154.0**	142.5**	140.0**	140.0**	108.5	90.5									
4.5	137.0**	130.0**	130.0**	129.0**	103.5	90.5	70.0								
5.0	123.0**	119.5**	119.5**	118.5**	103.0	87.0	70.0	54.5							
6.0	102.0	102.0	102.0	101.0	101.5	79.8	70.0	54.5	43.5						
7.0	86.6	86.6	86.2	85.4	86.0	77.5	66.2	54.5	43.5	34.5					
8.0	74.7	74.7	74.3	73.5	74.1	74.9	61.2	54.5	43.5	34.5	28.5				
9.0	65.5	65.5	65.1	64.3	64.9	65.6	58.0	52.0	43.4	34.5	28.5	23.0			
10.0	58.2	58.2	57.7	56.9	57.5	58.2	58.0	48.9	41.4	34.5	28.5	23.0	18.8		
11.0			51.7	50.8	51.4	52.1	52.7	45.7	39.4	34.1	28.5	23.0	18.8	15.0	
12.0			46.5	45.4	46.2	47.0	47.2	42.8	37.6	32.6	28.3	23.0	18.8	15.0	13.8
14.0			36.0	34.8	35.6	36.5	38.7	38.6	35.6	30.0	26.8	22.8	18.8	15.0	13.8
16.0				28.3	30.2	32.5	32.2	31.4	30.6	28.5	24.9	21.8	18.8	15.0	13.8
18.0				26.2	27.4	27.1	26.8	26.0	25.2	25.0	23.1	20.4	18.3	15.0	13.4
20.0					23.3	23.1	22.7	21.9	21.4	20.9	21.1	19.1	17.2	15.0	13.1
22.0					20.2	19.9	19.5	18.7	19.4	17.7	17.9	17.8	16.2	14.8	12.8
24.0						17.4	16.9	16.1	16.8	15.4	15.9	15.7	15.2	14.0	12.5
26.0						15.3	14.8	14.0	14.7	14.6	14.4	14.2	14.0	13.3	12.2
28.0							13.1	12.3	13.0	13.4	12.6	12.8	12.4	12.6	11.4
30.0							11.6	10.8	11.5	11.9	11.2	11.4	11.7	11.1	10.6
32.0								9.6	10.2	10.6	10.5	10.8	10.4	9.8	9.8
34.0								8.8	9.6	9.7	9.8	9.7	9.3	8.7	8.7
36.0									9.1	9.1	9.2	8.8	8.3	7.7	7.7
38.0									8.7	8.5	8.3	7.9	7.4	6.9	6.8
40.0										7.8	7.5	7.1	6.6	6.1	6.1
42.0										7.1	6.8	6.4	6.0	5.4	5.4
44.0										6.6	6.2	5.8	5.3	4.8	4.8
46.0											5.7	5.2	4.8	4.2	4.2
48.0											5.2	4.7	4.3	3.7	3.7
50.0												4.3	3.8	3.3	3.2
52.0												3.9	3.4	2.8	2.8
54.0													3.0	2.5	2.4
56.0													2.7	2.1	2.1
58.0														1.8	1.7
60.0														1.5	1.4
62.0															1.2
64.0															0.9

* Over rear
** With additional lifting equipment

Crawler Crane

- 55t**
7055
- 80t**
CKS800
- 90t**
CKS900
- 135t**
CKS1350
- 180t**
CKE1800
- 250t**
CKE2500-2

Rough Terrain Crane

- 25t**
GR-250N-2
- 30t**
GR-300EX

50t

- GR-500EXL
- 60t**
GR-600EX
- 80t**
GR-800EX

All Terrain Crane

- 160t**
ATF160G-5
- 200t**
LTM1200-5.1

220t

- ATF220G-5

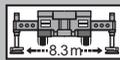
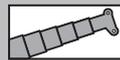
Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Lifting Capacities



35t

DIN/ISO/EN

→ m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
3.0	180.0**	169.5**	140.0**	140.0	114.0**										
3.5	166.5**	152.5**	140.0**	140.0**	114.0**	90.5									
4.0	146.0**	138.0**	138.0**	137.0**	108.5	90.5									
4.5	130.0**	126.0**	125.5**	124.5**	103.5	90.5	70.0								
5.0	117.0**	115.5**	115.0**	114.0**	103.0	87.0	70.0	54.5							
6.0	96.4	96.4	96.0	95.1	95.8	79.8	70.0	54.5	43.5						
7.0	81.4	81.4	81.0	80.2	80.8	77.5	66.2	54.5	43.5	34.5					
8.0	70.2	70.2	69.8	68.9	69.5	68.1	61.2	54.5	43.5	34.5	28.5				
9.0	61.5	61.5	61.0	60.2	59.9	58.2	57.0	52.0	43.4	34.5	28.5	23.0			
10.0	53.9	53.9	53.1	51.8	51.7	50.6	49.8	46.8	41.4	34.5	28.5	23.0	18.8		
11.0			44.8	43.5	44.4	44.5	44.0	43.5	39.4	34.1	28.5	23.0	18.8	15.0	
12.0			38.4	37.2	38.0	39.9	41.5	39.1	36.8	32.6	28.3	23.0	18.8	15.0	13.8
14.0			29.7	31.2	33.4	33.3	33.0	32.1	30.2	29.1	26.8	22.8	18.8	15.0	13.8
16.0				26.9	27.2	26.9	26.6	25.7	24.9	24.4	23.9	21.8	18.8	15.0	13.8
18.0					22.4	22.5	22.3	21.9	21.1	21.9	20.3	20.2	18.3	15.0	13.4
20.0						19.1	18.8	18.4	17.6	18.4	17.4	17.7	17.3	15.0	13.1
22.0							16.1	15.7	14.9	15.6	16.1	15.3	15.5	14.9	12.8
24.0								13.9	13.5	12.7	13.4	13.9	13.5	13.7	12.5
26.0									12.2	11.9	11.3	12.2	12.8	12.6	11.3
28.0										11.2	10.5	11.4	11.5	11.2	10.3
30.0										10.7	9.9	10.4	10.2	9.9	9.0
32.0											9.3	9.0	8.8	8.4	7.9
34.0												8.5	8.4	8.1	7.4
36.0													7.5	7.2	6.5
38.0														6.8	6.5
40.0															5.8
42.0															5.5
44.0															5.1
46.0															4.8
48.0															5.0
50.0															4.4
52.0															3.9
54.0															3.5
56.0															2.7
															2.3
															1.8
															1.5
															1.3

* Over rear
** With additional lifting equipment

Crawler Crane

**55t
7055**

**80t
CKS800**

**90t
CKS900**

**135t
CKS1350**

**180t
CKE1800**

**250t
CKE2500-2**

Rough Terrain Crane

**25t
GR-250N-2**

**30t
GR-300EX**

**50t
GR-500EXL**

**60t
GR-600EX**

**80t
GR-800EX**

All Terrain Crane

**160t
ATF160G-5**

**200t
LTM1200-5.1**

**220t
ATF220G-5**

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

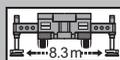
Tele handler

Excavator

Bull Dozer

**Vibro Roller
Baby Roller**

Motor Grader

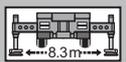
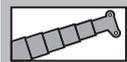


23.5t

DIN/ISO/EN

→ m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
3.0	180.0**	164.5**	140.0**	140.0**	114.0**										
3.5	158.0**	147.5**	140.0**	140.0**	114.0**	90.5									
4.0	138.5**	133.5**	133.0**	132.0**	108.5	90.5									
4.5	123.0**	121.5**	121.0**	120.0**	103.5	90.5	70.0								
5.0	110.0	110.0	110.0	109.0	103.0	87.0	70.0	54.5							
6.0	90.5	90.5	90.2	88.8	83.1	77.5	70.0	54.5	43.5						
7.0	76.4	76.4	76.0	69.9	66.3	63.5	58.7	54.5	43.5	34.5					
8.0	65.6	65.6	62.6	57.0	54.6	52.8	51.6	47.9	43.5	34.5	28.5				
9.0	53.0	53.0	52.2	47.7	46.0	45.5	46.6	43.5	39.2	34.5	28.5	23.0			
10.0	43.5	43.5	42.7	40.6	41.6	43.0	40.7	38.0	35.5	33.9	28.5	23.0	18.8		
11.0			35.8	36.9	39.7	37.9	36.0	33.6	31.4	30.0	28.5	23.0	18.8	15.0	
12.0			32.0	34.8	35.1	33.8	32.1	30.0	28.4	26.8	26.0	23.0	18.8	15.0	13.8
14.0			25.8	26.9	27.1	26.9	26.1	24.3	24.4	21.7	21.4	20.9	18.8	15.0	13.8
16.0				21.5	21.8	21.5	21.2	20.0	20.3	19.9	18.8	18.4	17.2	15.0	13.8
18.0				17.7	17.9	17.6	17.3	16.4	17.1	17.4	16.9	16.6	15.0	14.6	13.4
20.0					15.6	14.6	14.7	14.3	15.3	15.7	15.1	14.3	13.4	12.4	12.0
22.0						13.3	12.3	13.6	13.1	13.6	13.3	13.1	12.3	11.5	10.3
24.0							11.4	11.8	11.8	11.6	11.4	11.2	10.7	10.0	9.1
26.0								10.1	10.3	10.2	10.1	9.8	9.6	9.1	8.6
28.0									9.0	8.9	8.7	8.5	8.3	7.8	7.3
30.0										7.9	7.8	7.6	7.4	7.1	6.7
32.0											6.8	6.7	6.4	6.2	5.8
34.0												6.1	5.9	5.6	5.3
36.0													5.2	4.9	4.7
38.0														4.6	4.3
40.0															3.8
42.0															3.5
44.0															3.3
46.0															2.9
48.0															2.6
															2.2
															1.9
															1.7
															1.4

* Over rear
** With additional lifting equipment



12t

DIN/ISO/EN

→ m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m	63.4 m	68.0 m
3.0	173.5**	159.5**	140.0**	140.0**	114.0**										
3.5	149.5**	142.5**	140.0**	140.0**	114.0**	90.5									
4.0	131.0**	128.5**	128.0**	127.0**	108.5	90.5									
4.5	116.0**	115.5**	115.5**	114.5**	103.5	90.5	70.0								
5.0	103.5	103.0	103.0	99.8	91.5	81.6	70.0	54.5							
6.0	84.8	84.7	82.8	73.8	69.1	65.5	59.8	54.5	43.5						
7.0	69.3	69.3	64.1	57.7	54.8	52.6	51.1	47.0	43.5	34.5					
8.0	51.8	51.8	51.2	46.7	46.2	47.9	45.2	41.9	37.6	34.5	28.5				
9.0	40.8	40.8	40.1	41.3	43.5	41.2	38.8	36.0	33.3	31.7	28.5	23.0			
10.0	33.2	33.2	35.4	37.3	37.6	35.8	33.7	31.3	31.0	27.4	26.4	23.0	18.8		
11.0			30.1	31.4	31.7	31.4	29.6	27.3	27.2	23.8	23.1	22.7	18.8	15.0	
12.0			25.6	26.9	27.2	26.9	26.1	24.0	24.1	22.8	22.0	20.0	18.8	15.0	13.8
14.0			18.9	20.1	20.6	20.1	19.8	19.3	20.2	20.4	18.9	17.2	15.9	15.0	13.8
16.0				15.7	16.6	16.1	17.4	17.3	17.2	16.9	16.2	15.2	14.2	13.1	12.5
18.0				12.5	13.4	13.8	14.1	14.0	13.9	13.6	13.4	12.7	11.8	10.8	10.5
20.0					11.0	11.3	11.6	11.5	11.4	11.1	10.9	10.4	9.9	9.0	8.7
22.0					9.2	9.4	9.7	9.6	9.5	9.2	9.0	8.5	8.0	7.4	7.2
24.0						7.9	8.2	8.1	7.9	7.7	7.5	7.0	6.5	5.9	5.9
26.0						6.7	6.9	6.8	6.7	6.4	6.2	5.8	5.3	4.7	4.6
28.0							5.9	5.8	5.7	5.4	5.2	4.7	4.3	3.7	3.6
30.0								5.1	4.9	4.8	4.5	4.3	3.9	2.8	2.8
32.0									4.2	4.1	3.8	3.6	3.1	2.7	2.0
34.0									3.6	3.4	3.2	2.9	2.5	2.0	1.4
36.0										2.9	2.6	2.4	1.9	1.5	
38.0										2.5	2.1	1.9	1.4	1.0	
40.0											1.7	1.4	1.0		
42.0											1.3	1.1			
44.0											1.1				

* Over rear

** With additional lifting equipment

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

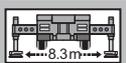
Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader



0t

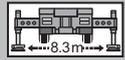
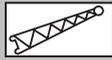
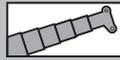
DIN/ISO/EN

→ m	13.2 m*	13.2 m	17.4 m	21.6 m	25.8 m	30.0 m	34.1 m	38.3 m	42.5 m	46.7 m	50.9 m	55.0 m	59.2 m
3.0	163.5**	153.5**	140.0**	140.0**	114.0**								
3.5	141.0**	137.0**	136.5**	135.5**	114.0**	90.5							
4.0	122.5**	122.5**	122.0**	111.0**	98.1	84.5							
4.5	108.0	108.0	104.0	88.9	80.2	73.8	65.4						
5.0	96.4	96.4	85.0	73.5	67.4	62.9	58.0	53.4					
6.0	68.9	68.9	60.8	53.6	52.1	53.4	49.1	43.5	38.4				
7.0	52.1	52.1	46.5	46.6	46.2	43.0	39.6	35.7	32.2	30.0			
8.0	40.1	40.1	39.9	39.6	37.5	34.9	32.3	29.2	28.8	25.3	23.5		
9.0	30.9	30.9	33.1	32.5	31.1	29.1	27.0	26.0	25.1	23.8	21.6	19.3	
10.0	24.1	24.1	27.2	27.3	26.3	24.7	24.5	24.4	23.3	21.4	18.9	17.9	16.3
11.0			22.1	23.3	23.5	21.5	22.3	21.3	20.3	19.2	18.1	16.8	15.0
12.0			18.3	19.7	20.5	20.1	19.6	18.8	18.0	16.9	16.0	14.8	13.7
14.0			13.1	14.4	15.4	15.8	15.6	14.9	14.3	13.5	12.7	11.7	10.7
16.0				10.8	11.8	12.2	12.5	12.1	11.6	10.9	10.2	9.3	8.5
18.0				8.4	9.2	9.6	9.9	9.8	9.5	8.9	8.3	7.5	6.7
20.0					7.3	7.7	7.9	7.9	7.8	7.3	6.8	6.1	5.3
22.0					5.9	6.2	6.4	6.4	6.2	6.0	5.6	4.9	4.2
24.0						5.0	5.3	5.2	5.0	4.8	4.5	3.9	3.2
26.0						4.1	4.3	4.2	4.1	3.8	3.6	3.1	2.4
28.0							3.5	3.4	3.3	3.0	2.8	2.3	
30.0								2.9	2.7	2.6	2.3	2.1	1.6
32.0									2.1	2.0	1.7	1.5	
34.0									1.7	1.5	1.2		
36.0										1.1			

* Over rear

** With additional lifting equipment

Lifting Heights



71t

DIN/ISO/EN

Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1

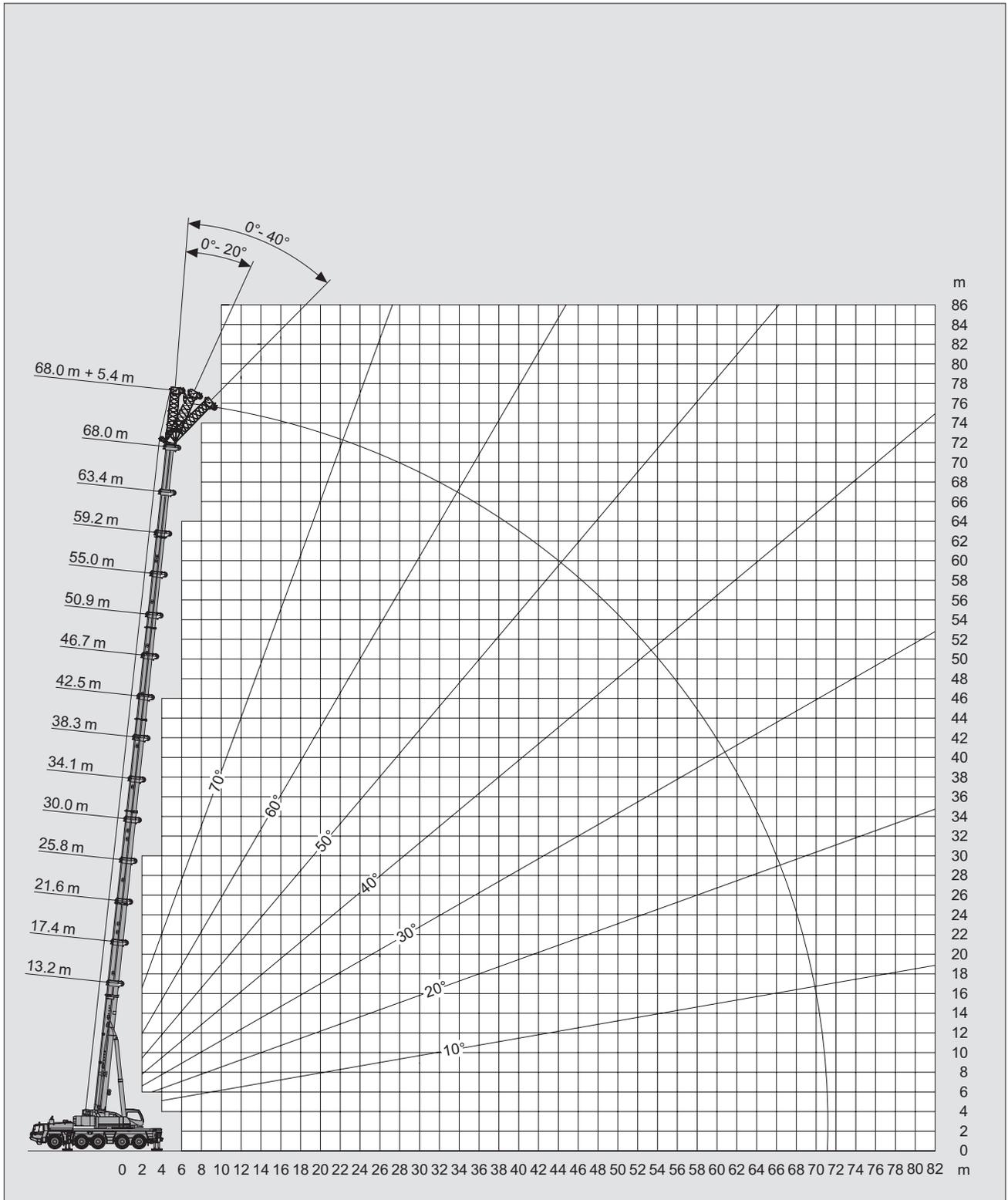
**220t
ATF220G-5**

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader



Lifting Capacities

220t
ATF220G-5



71t

DIN/ISO/EN

m	13.2 m + 5.4 m			34.1 m + 5.4 m			63.4 m + 5.4 m			68.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	47.5											
3.5	45.0	30.4										
4.0	42.6	29.4										
4.5	40.6	28.5										
5.0	38.7	27.6	22.2									
6.0	35.5	26.1	21.4	38.7								
7.0	32.8	24.8	20.7	38.7								
8.0	30.5	23.7	20.1	38.7	28.5							
9.0	28.5	22.7	19.6	38.7	27.7	21.5						
10.0	26.8	21.8	19.3	38.4	27.0	21.2						
11.0	25.2	21.1	18.7	36.4	26.3	20.9						
12.0	23.7	20.1	18.3	34.5	25.6	20.6						
14.0	20.7	18.5		31.2	24.5	20.1	10.9			10.0		
16.0	18.1			28.3	23.5	19.6	10.3	9.6	9.2	9.4	8.8	
18.0				25.9	22.6	19.2	9.8	9.1	8.8	8.9	8.4	8.1
20.0				23.8	21.8	18.9	9.3	8.7	8.4	8.5	8.0	7.7
22.0				22.0	21.1	18.5	8.9	8.3	8.1	8.1	7.7	7.4
24.0				20.4	20.1	18.1	8.5	8.0	7.7	7.8	7.4	7.1
26.0				18.0	18.5	17.9	8.1	7.7	7.4	7.5	7.1	6.9
28.0				15.8	16.2	16.3	7.8	7.5	7.2	7.2	6.9	6.7
30.0				13.9	14.2	14.3	7.5	7.2	7.0	6.9	6.6	6.5
32.0				12.3	12.5		7.2	7.0	6.8	6.6	6.4	6.3
34.0				10.9	11.1		7.0	6.7	6.6	6.4	6.2	6.1
36.0				9.7			6.7	6.5	6.4	6.2	6.0	5.9
38.0							6.5	6.3	6.2	6.0	5.8	5.7
40.0							6.3	6.1	6.0	5.8	5.6	5.5
44.0							6.0	5.8	5.7	5.5	5.3	5.2
48.0							5.4	5.4	5.4	5.2	5.1	5.0
52.0							4.9	4.9	4.9	4.7	4.7	4.7
56.0							4.3	4.4		4.3	4.3	4.3
60.0							3.6	3.6		3.6	3.6	
64.0							2.9			2.9	2.9	
68.0										2.3		

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

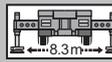
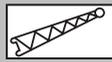
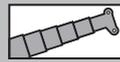
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities



47t

DIN/ISO/EN

m	13.2 m + 5.4 m			34.1 m + 5.4 m			63.4 m + 5.4 m			68.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	47.5											
3.5	45.0	30.4										
4.0	42.6	29.4										
4.5	40.6	28.5										
5.0	38.7	27.6	22.2									
6.0	35.5	26.1	21.4	38.7								
7.0	32.8	24.8	20.7	38.7								
8.0	30.5	23.7	20.1	38.7	28.5							
9.0	28.5	22.7	19.6	38.7	27.7	21.5						
10.0	26.8	21.8	19.3	38.4	27.0	21.2						
11.0	25.2	21.1	18.7	36.4	26.3	20.9						
12.0	23.7	20.1	18.3	34.5	25.6	20.6						
14.0	20.7	18.5		31.2	24.5	20.1	10.9			10.0		
16.0	18.1			28.3	23.5	19.6	10.3	9.6	9.2	9.4	8.8	
18.0				23.6	22.6	19.2	9.8	9.1	8.8	8.9	8.4	8.1
20.0				19.6	20.3	18.9	9.3	8.7	8.4	8.5	8.0	7.7
22.0				16.4	17.0	17.4	8.9	8.3	8.1	8.1	7.7	7.4
24.0				13.9	14.4	14.7	8.5	8.0	7.7	7.8	7.4	7.1
26.0				11.8	12.2	12.5	8.1	7.7	7.4	7.5	7.1	6.9
28.0				10.1	10.4	10.6	7.8	7.5	7.2	7.2	6.9	6.7
30.0				8.6	8.9	9.0	7.5	7.2	7.0	6.9	6.6	6.5
32.0				7.4	7.6		7.2	7.0	6.8	6.6	6.4	6.3
34.0				6.3	6.4		7.0	6.7	6.6	6.4	6.2	6.1
36.0				5.4			6.7	6.5	6.4	6.2	6.0	5.9
38.0							6.3	6.3	6.2	6.0	5.8	5.7
40.0							5.5	5.7	5.9	5.7	5.6	5.5
44.0							4.2	4.4	4.5	4.3	4.6	4.7
48.0							3.2	3.3	3.4	3.3	3.5	3.5
52.0							2.3	2.5	2.5	2.4	2.5	2.6
56.0							1.6	1.7		1.7	1.8	1.8

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

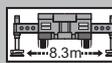
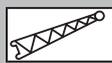
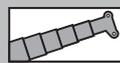
Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader



35t

DIN/ISO/EN

m	13.2 m + 5.4 m			34.1 m + 5.4 m			63.4 m + 5.4 m			68.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	47.5											
3.5	45.0	30.4										
4.0	42.6	29.4										
4.5	40.6	28.5										
5.0	38.7	27.6	22.2									
6.0	35.5	26.1	21.4	38.7								
7.0	32.8	24.8	20.7	38.7								
8.0	30.5	23.7	20.1	38.7	28.5							
9.0	28.5	22.7	19.6	38.7	27.7	21.5						
10.0	26.8	21.8	19.3	38.4	27.0	21.2						
11.0	25.2	21.1	18.7	36.4	26.3	20.9						
12.0	23.7	20.1	18.3	34.5	25.6	20.6						
14.0	20.7	18.5		29.2	24.5	20.1	10.9			10.0		
16.0	18.1			23.3	23.5	19.6	10.3	9.6	9.2	9.4	8.8	
18.0				18.8	19.6	19.2	9.8	9.1	8.8	8.9	8.4	8.1
20.0				15.3	16.1	16.6	9.3	8.7	8.4	8.5	8.0	7.7
22.0				12.6	13.3	13.6	8.9	8.3	8.1	8.1	7.7	7.4
24.0				10.5	11.0	11.3	8.5	8.0	7.7	7.8	7.4	7.1
26.0				8.7	9.1	9.4	8.1	7.7	7.4	7.5	7.1	6.9
28.0				7.2	7.6	7.7	7.8	7.5	7.2	7.2	6.9	6.7
30.0				6.0	6.3	6.4	7.5	7.2	7.0	6.9	6.6	6.5
32.0				4.9	5.1		6.8	7.0	6.8	6.6	6.4	6.3
34.0				4.0	4.1		5.8	6.1	6.4	6.0	6.2	6.1
36.0				3.2			5.0	5.3	5.5	5.1	5.4	5.6
38.0							4.2	4.5	4.7	4.4	4.6	4.8
40.0							3.6	3.8	3.9	3.7	4.0	4.1
44.0							2.4	2.6	2.8	2.6	2.8	2.9
48.0							1.5	1.7	1.8	1.7	1.8	1.9



m	13.2 m + 5.4 m			34.1 m + 5.4 m			63.4 m + 5.4 m			68.0 m + 5.4 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	47.5											
3.5	45.0	30.4										
4.0	42.6	29.4										
4.5	40.6	28.5										
5.0	38.7	27.6	22.2									
6.0	35.5	26.1	21.4	38.7								
7.0	32.8	24.8	20.7	38.7								
8.0	30.5	23.7	20.1	38.7	28.5							
9.0	28.5	22.7	19.6	38.7	27.7	21.5						
10.0	26.8	21.8	19.3	36.8	27.0	21.2						
11.0	25.2	21.1	18.7	32.3	26.3	20.9						
12.0	23.7	20.1	18.3	28.7	25.6	20.6						
14.0	20.7	18.5		22.9	24.1	20.1	10.9			10.0		
16.0	18.1			17.9	19.0	19.6	10.3	9.6	9.2	9.4	8.8	
18.0				14.1	15.0	15.6	9.8	9.1	8.8	8.9	8.4	8.1
20.0				11.1	11.8	12.3	9.3	8.7	8.4	8.5	8.0	7.7
22.0				8.8	9.4	9.8	8.9	8.3	8.1	8.1	7.7	7.4
24.0				6.9	7.4	7.8	8.5	8.0	7.7	7.8	7.4	7.1
26.0				5.4	5.9	6.1	7.5	7.7	7.4	7.5	7.1	6.9
28.0				4.2	4.5	4.7	6.2	6.6	6.9	6.4	6.8	6.7
30.0				3.1	3.4	3.5	5.1	5.5	5.7	5.3	5.7	6.0
32.0				2.2	2.5		4.2	4.5	4.7	4.3	4.7	4.9
34.0				1.5	1.6		3.4	3.7	3.9	3.5	3.8	4.1
36.0							2.7	2.9	3.1	2.8	3.1	3.3
38.0							2.0	2.3	2.5	2.2	2.5	2.7
40.0							1.5	1.7	1.9	1.6	1.9	2.1

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

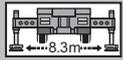
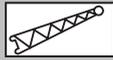
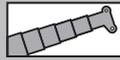
Excavator

Bull Dozer

Vibro Roller
Baby Roller

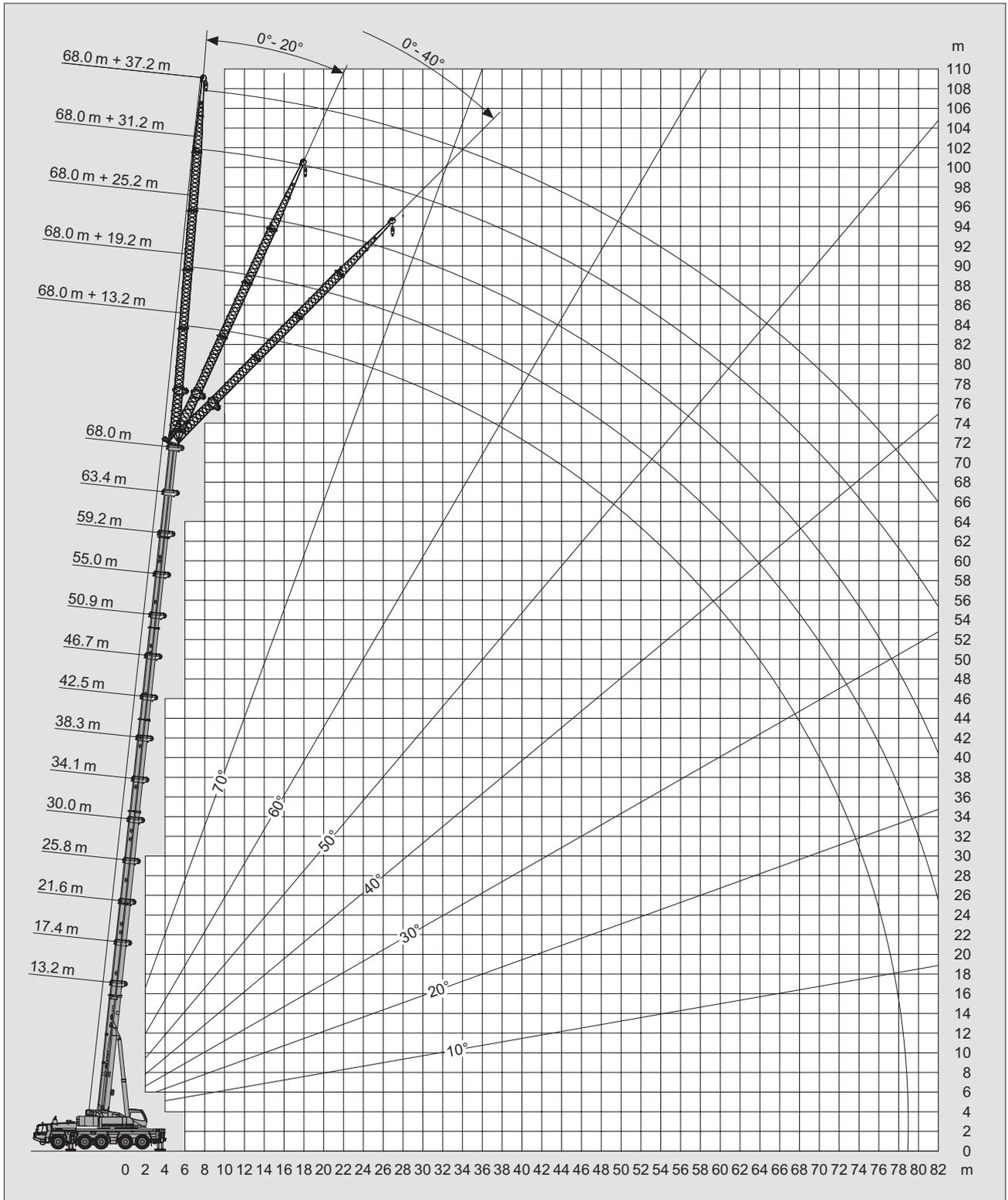
Motor Grader

Lifting Heights



71t

DIN/ISO/EN



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1

**220t
ATF220G-5**

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Lifting Capacities

220t
ATF220G-5

71t

DIN/ISO/EN

m	68.0 m + 13.2 m			68.0 m + 19.2 m			68.0 m + 25.2 m			68.0 m + 31.2 m			68.0 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
14.0	6.5														
16.0	6.5			4.6											
18.0	6.4			4.6											
20.0	6.3	5.9		4.6			3.6			2.8				2.3	
22.0	6.2	5.9		4.6			3.6			2.8				2.3	
24.0	6.1	5.8	5.4	4.6	4.6		3.6			2.8				2.3	
26.0	6.0	5.6	5.2	4.6	4.6		3.6			2.8				2.3	
28.0	5.9	5.4	5.0	4.6	4.4		3.6	3.6		2.8				2.3	
30.0	5.7	5.2	4.9	4.6	4.3	3.9	3.6	3.6		2.8				2.3	
32.0	5.5	5.0	4.7	4.6	4.1	3.8	3.6	3.4		2.8				2.3	
34.0	5.3	4.8	4.6	4.5	4.0	3.7	3.6	3.3		2.8	2.7			2.3	
36.0	5.2	4.7	4.5	4.3	3.9	3.6	3.6	3.2	3.0	2.8	2.6			2.3	
38.0	5.0	4.5	4.3	4.2	3.8	3.5	3.5	3.1	2.9	2.8	2.6			2.3	
40.0	4.8	4.4	4.2	4.0	3.6	3.4	3.4	3.0	2.8	2.8	2.5			2.3	
44.0	4.5	4.2	4.0	3.8	3.4	3.2	3.2	2.8	2.6	2.7	2.3	2.1		2.2	
48.0	4.3	4.0	3.8	3.6	3.2	3.1	3.0	2.7	2.5	2.5	2.2	2.0		2.1	
52.0	4.0	3.8	3.7	3.4	3.1	2.9	2.8	2.5	2.4	2.3	2.0	1.9		1.9	
56.0	3.8	3.6	3.5	3.2	2.9	2.8	2.6	2.4	2.3	2.1	1.9	1.8		1.8	
60.0	3.6	3.5	3.4	3.0	2.8	2.7	2.5	2.2	2.2	2.0	1.8	1.7		1.7	
64.0	3.2	3.3	3.3	2.9	2.7	2.6	2.4	2.1	2.1	1.9	1.7	1.6		1.5	
68.0	2.7	2.9		2.7	2.6	2.5	2.3	2.1	2.0	1.8	1.6	1.5		1.4	
72.0	2.2	2.3		2.4	2.5	2.5	2.1	2.0	1.9	1.7	1.5	1.4		1.3	
76.0	1.7	1.8		1.9	2.1		1.9	1.9	1.8	1.6	1.4	1.3			
80.0				1.5	1.6		1.5	1.8		1.4	1.3				
84.0															

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

71t

DIN/ISO/EN

m	63.4 m + 13.2 m			63.4 m + 19.2 m			63.4 m + 25.2 m			63.4 m + 31.2 m			63.4 m + 37.2 m	
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°
14.0	7.5			5.2										
16.0	7.3			5.2			4.0			3.2				
18.0	7.2			5.2			4.0			3.2			2.5	
20.0	7.0	6.7		5.2			4.0			3.2			2.5	
22.0	6.9	6.4		5.2	5.2		4.0			3.2			2.5	
24.0	6.8	6.2	5.7	5.2	5.1		4.0			3.2			2.5	
26.0	6.7	6.0	5.5	5.2	4.9		4.0	4.0		3.2			2.5	
28.0	6.4	5.8	5.4	5.2	4.7		4.0	3.9		3.2			2.5	
30.0	6.2	5.6	5.2	5.2	4.5	4.2	4.0	3.8		3.2	3.0		2.5	
32.0	5.9	5.4	5.0	5.0	4.4	4.1	4.0	3.6		3.2	3.0		2.5	
34.0	5.7	5.2	4.9	4.8	4.3	3.9	4.0	3.5	3.2	3.2	2.9		2.5	2.1
36.0	5.5	5.0	4.8	4.6	4.1	3.8	3.9	3.4	3.1	3.2	2.8		2.5	2.1
38.0	5.4	4.9	4.6	4.5	4.0	3.7	3.8	3.3	3.0	3.2	2.7		2.4	2.0
40.0	5.2	4.7	4.5	4.3	3.9	3.6	3.7	3.2	3.0	3.1	2.6	2.4	2.4	2.0
44.0	4.9	4.5	4.3	4.1	3.7	3.4	3.4	3.0	2.8	2.8	2.4	2.3	2.3	1.9
48.0	4.6	4.3	4.1	3.8	3.5	3.3	3.2	2.8	2.7	2.7	2.3	2.1	2.2	1.8
52.0	4.4	4.1	4.0	3.6	3.3	3.2	3.0	2.7	2.5	2.5	2.2	2.0	2.1	1.7
56.0	4.0	3.9	3.9	3.5	3.1	3.0	2.8	2.6	2.4	2.3	2.0	1.9	1.9	1.6
60.0	3.7	3.7	3.6	3.3	3.0	2.9	2.7	2.4	2.3	2.2	1.9	1.8	1.8	1.5
64.0	3.4	3.4		3.0	2.9	2.8	2.6	2.3	2.2	2.0	1.8	1.7	1.7	1.4
68.0	2.8	3.0		2.8	2.7	2.7	2.4	2.2	2.1	1.9	1.7	1.6	1.5	1.4
72.0	2.3	2.4		2.4	2.5		2.2	2.1	2.0	1.8	1.6	1.5	1.4	1.3
76.0				2.0	2.1		2.0	2.0		1.6	1.5	1.4	1.3	
80.0							1.7	1.9		1.5	1.4	1.3		
84.0							1.3	1.4		1.3	1.3			

Lifting Capacities

71t

DIN/ISO/EN

m	34.1 m + 13.2 m			34.1 m + 19.2 m			34.1 m + 25.2 m			34.1 m + 31.2 m			34.1 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
6.0	17.9														
7.0	17.2			13.1											
8.0	16.4			13.1			8.9								
9.0	15.8			13.1			8.9			5.7					
10.0	15.1			12.9			8.9			5.7				4.1	
11.0	14.5	10.4		12.6			8.9			5.7				4.1	
12.0	14.0	10.2		12.3			8.9			5.7				4.1	
14.0	13.0	9.6		11.6			8.8			5.7				4.1	
16.0	12.1	9.1	7.6	10.9	8.2		8.4			5.7				4.1	
18.0	11.4	8.7	7.3	10.3	7.8		7.9			5.7				4.1	
20.0	10.7	8.3	7.1	9.7	7.4	5.8	7.5	5.7		5.7				4.1	
22.0	10.1	8.0	6.9	9.1	7.1	5.6	7.1	5.4		5.4				4.1	
24.0	9.6	7.7	6.8	8.7	6.8	5.4	6.7	5.2		5.2	4.1			3.9	
26.0	9.1	7.5	6.6	8.2	6.5	5.2	6.3	5.0		5.0	3.9			3.8	
28.0	8.7	7.2	6.5	7.8	6.2	5.0	6.0	4.8	3.8	4.7	3.7			3.6	
30.0	8.3	7.0	6.4	7.5	5.9	4.9	5.7	4.6	3.7	4.5	3.6			3.4	2.8
32.0	7.9	6.8	6.3	7.1	5.6	4.7	5.5	4.4	3.5	4.3	3.4	2.7		3.3	2.7
34.0	7.6	6.7	6.3	6.8	5.4	4.6	5.2	4.2	3.4	4.1	3.3	2.6		3.2	2.6
36.0	7.4	6.5	6.3	6.4	5.2	4.5	5.0	4.0	3.3	3.9	3.1	2.5		3.0	2.5
38.0	7.1	6.4		6.0	4.9	4.4	4.8	3.8	3.2	3.8	2.9	2.4		2.9	2.4
40.0	6.9	6.3		5.7	4.8	4.3	4.5	3.6	3.1	3.6	2.8	2.3		2.8	2.2
44.0	6.7			5.1	4.5		4.0	3.4	3.0	3.2	2.6	2.2		2.6	2.0
48.0				4.6	4.3		3.6	3.1	2.9	2.8	2.4	2.1		2.3	1.8
52.0							3.2	2.9		2.5	2.2	2.0		2.0	1.7
56.0							2.9			2.3	2.0			1.8	1.5
60.0										2.0	1.9			1.6	1.4
64.0														1.5	1.3
68.0														1.3	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

71t

DIN/ISO/EN

m	13.2 m + 13.2 m			13.2 m + 19.2 m			13.2 m + 25.2 m			13.2 m + 31.2 m			13.2 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	18.0														
3.5	18.0			16.0											
4.0	18.0			15.7			10.4								
4.5	17.4			15.4			10.4								
5.0	16.7			15.0			10.4			6.4					
6.0	15.4			14.3			10.4			6.4				4.6	
7.0	14.4	11.5		13.6			10.4			6.4				4.6	
8.0	13.4	10.9		13.0			10.4			6.4				4.6	
9.0	12.6	10.3		12.4			10.0			6.4				4.6	
10.0	11.9	9.8		11.7			9.5			6.4				4.6	
11.0	11.2	9.4		11.1	9.0		9.0			6.4				4.6	
12.0	10.6	9.0	7.9	10.5	8.6		8.6			6.4				4.6	
14.0	9.6	8.3	7.4	9.5	7.9		7.8			6.3				4.6	
16.0	8.8	7.8	7.1	8.7	7.1	5.9	7.1	6.0		5.8				4.5	
18.0	8.1	7.3	6.8	7.8	6.5	5.5	6.5	5.6		5.4				4.2	
20.0	7.5	6.9	6.7	7.0	5.9	5.2	6.0	5.0		5.0				4.0	
22.0	7.1	6.7		6.3	5.5	4.9	5.5	4.6		4.6				3.7	
24.0				5.7	5.1	4.6	4.9	4.2		4.3	3.6			3.5	3.1
26.0				5.2	4.7	4.4	4.5	3.9	3.5	3.8	3.3			3.3	2.9
28.0				4.7	4.5		4.1	3.6	3.3	3.5	3.0			3.1	2.6
30.0							3.7	3.4	3.1	3.2	2.8			2.8	2.4
32.0							3.4	3.2	3.0	2.9	2.6	2.4		2.5	2.2
34.0							3.2	3.0		2.7	2.4	2.2		2.3	2.1
36.0							2.9			2.5	2.3	2.1		2.1	1.9
38.0										2.3	2.2	2.0		2.0	1.8
40.0										2.1	2.0			1.8	1.7
44.0														1.5	1.5
48.0														1.3	1.3

47t

DIN/ISO/EN

m	68.0 m + 13.2 m			68.0 m + 19.2 m			68.0 m + 25.2 m			68.0 m + 31.2 m			68.0 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°		
14.0	6.5														
16.0	6.5			4.6											
18.0	6.4			4.6											
20.0	6.3	5.9		4.6			3.6			2.8				2.3	
22.0	6.2	5.9		4.6			3.6			2.8				2.3	
24.0	6.1	5.8	5.4	4.6	4.6		3.6			2.8				2.3	
26.0	6.0	5.6	5.2	4.6	4.6		3.6			2.8				2.3	
28.0	5.9	5.4	5.0	4.6	4.4		3.6	3.6		2.8				2.3	
30.0	5.7	5.2	4.9	4.6	4.3	3.9	3.6	3.6		2.8				2.3	
32.0	5.5	5.0	4.7	4.6	4.1	3.8	3.6	3.4		2.8				2.3	
34.0	5.3	4.8	4.6	4.5	4.0	3.7	3.6	3.3		2.8	2.7			2.3	
36.0	5.2	4.7	4.5	4.3	3.9	3.6	3.6	3.2	3.0	2.8	2.6			2.3	
38.0	5.0	4.5	4.3	4.2	3.8	3.5	3.5	3.1	2.9	2.8	2.6			2.3	
40.0	4.8	4.4	4.2	4.0	3.6	3.4	3.4	3.0	2.8	2.8	2.5			2.3	
44.0	4.5	4.2	4.0	3.8	3.4	3.2	3.2	2.8	2.6	2.7	2.3	2.1		2.2	
48.0	3.8	4.0	3.8	3.6	3.2	3.1	3.0	2.7	2.5	2.5	2.2	2.0		2.1	
52.0	2.9	3.3	3.6	3.2	3.1	2.9	2.8	2.5	2.4	2.3	2.0	1.9		1.9	
56.0	2.2	2.5	2.8	2.5	2.9	2.8	2.6	2.4	2.3	2.1	1.9	1.8		1.8	
60.0	1.5	1.8	2.0	1.8	2.3	2.6	1.9	2.2	2.2	1.9	1.8	1.7		1.7	
64.0		1.2	1.4	1.2	1.6	1.9	1.3	1.9	2.1	1.3	1.7	1.6		1.4	
68.0						1.3		1.3	1.7		1.5	1.5			
72.0												1.4			

47t

DIN/ISO/EN

m	63.4 m + 13.2 m			63.4 m + 19.2 m			63.4 m + 25.2 m			63.4 m + 31.2 m			63.4 m + 37.2 m	
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°
14.0	7.5			5.2										
16.0	7.3			5.2			4.0			3.2				
18.0	7.2			5.2			4.0			3.2			2.5	
20.0	7.0	6.7		5.2			4.0			3.2			2.5	
22.0	6.9	6.4		5.2	5.2		4.0			3.2			2.5	
24.0	6.8	6.2	5.7	5.2	5.1		4.0			3.2			2.5	
26.0	6.7	6.0	5.5	5.2	4.9		4.0	4.0		3.2			2.5	
28.0	6.4	5.8	5.4	5.2	4.7		4.0	3.9		3.2			2.5	
30.0	6.2	5.6	5.2	5.2	4.5	4.2	4.0	3.8		3.2	3.0		2.5	
32.0	5.9	5.4	5.0	5.0	4.4	4.1	4.0	3.6		3.2	3.0		2.5	
34.0	5.7	5.2	4.9	4.8	4.3	3.9	4.0	3.5	3.2	3.2	2.9		2.5	2.1
36.0	5.5	5.0	4.8	4.6	4.1	3.8	3.9	3.4	3.1	3.2	2.8		2.5	2.1
38.0	5.4	4.9	4.6	4.5	4.0	3.7	3.8	3.3	3.0	3.2	2.7		2.4	2.0
40.0	5.2	4.7	4.5	4.3	3.9	3.6	3.7	3.2	3.0	3.1	2.6	2.4	2.4	2.0
44.0	4.9	4.5	4.3	4.1	3.7	3.4	3.4	3.0	2.8	2.8	2.4	2.3	2.3	1.9
48.0	3.9	4.3	4.1	3.8	3.5	3.3	3.2	2.8	2.7	2.7	2.3	2.1	2.2	1.8
52.0	3.0	3.4	3.7	3.2	3.3	3.2	3.0	2.7	2.5	2.5	2.2	2.0	2.1	1.7
56.0	2.3	2.6	2.8	2.4	3.0	3.0	2.7	2.6	2.4	2.3	2.0	1.9	1.9	1.6
60.0	1.6	1.9	2.1	1.8	2.2	2.5	2.0	2.4	2.3	2.1	1.9	1.8	1.8	1.5
64.0		1.3		1.2	1.6	1.8	1.5	2.0	2.2	1.5	1.8	1.7	1.6	1.4
68.0						1.2		1.4	1.7		1.6	1.6	1.4	
72.0											1.4	1.4	1.3	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

47t

DIN/ISO/EN

m	34.1 m + 13.2 m			34.1 m + 19.2 m			34.1 m + 25.2 m			34.1 m + 31.2 m			34.1 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
6.0	17.9														
7.0	17.2			13.1											
8.0	16.4			13.1			8.9								
9.0	15.8			13.1			8.9			5.7					
10.0	15.1			12.9			8.9			5.7			4.1		
11.0	14.5	10.4		12.6			8.9			5.7			4.1		
12.0	14.0	10.2		12.3			8.9			5.7			4.1		
14.0	13.0	9.6		11.6			8.8			5.7			4.1		
16.0	12.1	9.1	7.6	10.9	8.2		8.4			5.7			4.1		
18.0	11.4	8.7	7.3	10.3	7.8		7.9			5.7			4.1		
20.0	10.7	8.3	7.1	9.7	7.4	5.8	7.5	5.7		5.7			4.1		
22.0	10.1	8.0	6.9	9.1	7.1	5.6	7.1	5.4		5.4			4.1		
24.0	9.6	7.7	6.8	8.7	6.8	5.4	6.7	5.2		5.2	4.1		3.9		
26.0	9.1	7.5	6.6	8.2	6.5	5.2	6.3	5.0		5.0	3.9		3.8		
28.0	8.7	7.2	6.5	7.8	6.2	5.0	6.0	4.8	3.8	4.7	3.7		3.6		
30.0	8.3	7.0	6.4	7.5	5.9	4.9	5.7	4.6	3.7	4.5	3.6		3.4	2.8	
32.0	7.9	6.8	6.3	7.1	5.6	4.7	5.5	4.4	3.5	4.3	3.4	2.7	3.3	2.7	
34.0	7.6	6.7	6.3	6.8	5.4	4.6	5.2	4.2	3.4	4.1	3.3	2.6	3.2	2.6	
36.0	6.8	6.5	6.3	6.4	5.2	4.5	5.0	4.0	3.3	3.9	3.1	2.5	3.0	2.5	
38.0	5.9	6.4		6.0	4.9	4.4	4.8	3.8	3.2	3.8	2.9	2.4	2.9	2.4	1.8
40.0	5.2	5.6		5.7	4.8	4.3	4.5	3.6	3.1	3.6	2.8	2.3	2.8	2.2	1.8
44.0	3.9			4.5	4.5		4.0	3.4	3.0	3.2	2.6	2.2	2.6	2.0	1.6
48.0				3.5	3.8		3.6	3.1	2.9	2.8	2.4	2.1	2.3	1.8	1.5
52.0							3.1	2.9		2.5	2.2	2.0	2.0	1.7	1.4
56.0							2.3			2.3	2.0		1.8	1.5	1.4
60.0										2.0	1.9		1.6	1.4	1.3
64.0													1.5	1.3	
68.0													1.2		

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

47t

DIN/ISO/EN

m	13.2 m + 13.2 m			13.2 m + 19.2 m			13.2 m + 25.2 m			13.2 m + 31.2 m			13.2 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	18.0														
3.5	18.0			16.0											
4.0	18.0			15.7			10.4								
4.5	17.4			15.4			10.4								
5.0	16.7			15.0			10.4			6.4					
6.0	15.4			14.3			10.4			6.4			4.6		
7.0	14.4	11.5		13.6			10.4			6.4			4.6		
8.0	13.4	10.9		13.0			10.4			6.4			4.6		
9.0	12.6	10.3		12.4			10.0			6.4			4.6		
10.0	11.9	9.8		11.7			9.5			6.4			4.6		
11.0	11.2	9.4		11.1	9.0		9.0			6.4			4.6		
12.0	10.6	9.0	7.9	10.5	8.6		8.6			6.4			4.6		
14.0	9.6	8.3	7.4	9.5	7.9		7.8			6.3			4.6		
16.0	8.8	7.8	7.1	8.7	7.1	5.9	7.1	6.0		5.8			4.5		
18.0	8.1	7.3	6.8	7.8	6.5	5.5	6.5	5.6		5.4			4.2		
20.0	7.5	6.9	6.7	7.0	5.9	5.2	6.0	5.0		5.0			4.0		
22.0	7.1	6.7		6.3	5.5	4.9	5.5	4.6		4.6			3.7		
24.0				5.7	5.1	4.6	4.9	4.2		4.3	3.6		3.5	3.1	
26.0				5.2	4.7	4.4	4.5	3.9	3.5	3.8	3.3		3.3	2.9	
28.0				4.7	4.5		4.1	3.6	3.3	3.5	3.0		3.1	2.6	
30.0							3.7	3.4	3.1	3.2	2.8		2.8	2.4	
32.0							3.4	3.2	3.0	2.9	2.6	2.4	2.5	2.2	
34.0							3.2	3.0		2.7	2.4	2.2	2.3	2.1	
36.0							2.9			2.5	2.3	2.1	2.1	1.9	1.7
38.0										2.3	2.2	2.0	2.0	1.8	1.6
40.0										2.1	2.0		1.8	1.7	1.5
44.0													1.5	1.5	1.4
48.0													1.3	1.3	

35t

DIN/ISO/EN

m	68.0 m + 13.2 m			68.0 m + 19.2 m			68.0 m + 25.2 m			68.0 m + 31.2 m			68.0 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°		
14.0	6.5														
16.0	6.5			4.6											
18.0	6.4			4.6											
20.0	6.3	5.9		4.6			3.6			2.8				2.3	
22.0	6.2	5.9		4.6			3.6			2.8				2.3	
24.0	6.1	5.8	5.4	4.6	4.6		3.6			2.8				2.3	
26.0	6.0	5.6	5.2	4.6	4.6		3.6			2.8				2.3	
28.0	5.9	5.4	5.0	4.6	4.4		3.6	3.6		2.8				2.3	
30.0	5.7	5.2	4.9	4.6	4.3	3.9	3.6	3.6		2.8				2.3	
32.0	5.5	5.0	4.7	4.6	4.1	3.8	3.6	3.4		2.8				2.3	
34.0	5.3	4.8	4.6	4.5	4.0	3.7	3.6	3.3		2.8	2.7			2.3	
36.0	5.2	4.7	4.5	4.3	3.9	3.6	3.6	3.2	3.0	2.8	2.6			2.3	
38.0	4.9	4.5	4.3	4.2	3.8	3.5	3.5	3.1	2.9	2.8	2.6			2.3	
40.0	4.3	4.4	4.2	4.0	3.6	3.4	3.4	3.0	2.8	2.8	2.5			2.3	
44.0	3.1	3.7	4.0	3.5	3.4	3.2	3.2	2.8	2.6	2.7	2.3	2.1		2.2	
48.0	2.2	2.7	3.1	2.5	3.2	3.1	2.6	2.7	2.5	2.5	2.2	2.0		2.1	
52.0	1.4	1.9	2.2	1.7	2.4	2.9	1.8	2.5	2.4	1.9	2.0	1.9		1.9	
56.0			1.4		1.6	2.0	1.2	1.9	2.3	1.2	1.9	1.8		1.3	
60.0						1.3		1.3	1.8		1.5	1.7			
64.0												1.5			

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

35t

DIN/ISO/EN

m	63.4 m + 13.2 m			63.4 m + 19.2 m			63.4 m + 25.2 m			63.4 m + 31.2 m			63.4 m + 37.2 m	
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°
14.0	7.5			5.2										
16.0	7.3			5.2			4.0			3.2				
18.0	7.2			5.2			4.0			3.2			2.5	
20.0	7.0	6.7		5.2			4.0			3.2			2.5	
22.0	6.9	6.4		5.2	5.2		4.0			3.2			2.5	
24.0	6.8	6.2	5.7	5.2	5.1		4.0			3.2			2.5	
26.0	6.7	6.0	5.5	5.2	4.9		4.0	4.0		3.2			2.5	
28.0	6.4	5.8	5.4	5.2	4.7		4.0	3.9		3.2			2.5	
30.0	6.2	5.6	5.2	5.2	4.5	4.2	4.0	3.8		3.2	3.0		2.5	
32.0	5.9	5.4	5.0	5.0	4.4	4.1	4.0	3.6		3.2	3.0		2.5	
34.0	5.7	5.2	4.9	4.8	4.3	3.9	4.0	3.5	3.2	3.2	2.9		2.5	2.1
36.0	5.5	5.0	4.8	4.6	4.1	3.8	3.9	3.4	3.1	3.2	2.8		2.5	2.1
38.0	5.1	4.9	4.6	4.5	4.0	3.7	3.8	3.3	3.0	3.2	2.7		2.4	2.0
40.0	4.4	4.7	4.5	4.3	3.9	3.6	3.7	3.2	3.0	3.1	2.6	2.4	2.4	2.0
44.0	3.2	3.8	4.2	3.4	3.7	3.4	3.4	3.0	2.8	2.8	2.4	2.3	2.3	1.9
48.0	2.3	2.8	3.1	2.5	3.2	3.3	2.8	2.8	2.7	2.7	2.3	2.1	2.2	1.8
52.0	1.5	1.9	2.2	1.7	2.3	2.8	2.0	2.7	2.5	2.0	2.2	2.0	2.1	1.7
56.0		1.2	1.4		1.6	1.9	1.3	2.0	2.4	1.4	2.0	1.9	1.4	1.6
60.0						1.2		1.4	1.8		1.6	1.8		1.5
64.0									1.2			1.5		1.2

Lifting Capacities

35t

DIN/ISO/EN

m	34.1 m + 13.2 m			34.1 m + 19.2 m			34.1 m + 25.2 m			34.1 m + 31.2 m			34.1 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
6.0	17.9														
7.0	17.2			13.1											
8.0	16.4			13.1			8.9								
9.0	15.8			13.1			8.9			5.7					
10.0	15.1			12.9			8.9			5.7				4.1	
11.0	14.5	10.4		12.6			8.9			5.7				4.1	
12.0	14.0	10.2		12.3			8.9			5.7				4.1	
14.0	13.0	9.6		11.6			8.8			5.7				4.1	
16.0	12.1	9.1	7.6	10.9	8.2		8.4			5.7				4.1	
18.0	11.4	8.7	7.3	10.3	7.8		7.9			5.7				4.1	
20.0	10.7	8.3	7.1	9.7	7.4	5.8	7.5	5.7		5.7				4.1	
22.0	10.1	8.0	6.9	9.1	7.1	5.6	7.1	5.4		5.4				4.1	
24.0	9.6	7.7	6.8	8.7	6.8	5.4	6.7	5.2		5.2	4.1			3.9	
26.0	9.1	7.5	6.6	8.2	6.5	5.2	6.3	5.0		5.0	3.9			3.8	
28.0	8.7	7.2	6.5	7.8	6.2	5.0	6.0	4.8	3.8	4.7	3.7			3.6	
30.0	7.5	7.0	6.4	7.5	5.9	4.9	5.7	4.6	3.7	4.5	3.6			3.4	2.8
32.0	6.4	6.8	6.3	7.0	5.6	4.7	5.5	4.4	3.5	4.3	3.4	2.7		3.3	2.7
34.0	5.4	6.1	6.3	6.1	5.4	4.6	5.2	4.2	3.4	4.1	3.3	2.6		3.2	2.6
36.0	4.6	5.2	5.6	5.2	5.2	4.5	5.0	4.0	3.3	3.9	3.1	2.5		3.0	2.5
38.0	3.8	4.4		4.5	4.9	4.4	4.8	3.8	3.2	3.8	2.9	2.4		2.9	2.4
40.0	3.2	3.6		3.8	4.6	4.3	4.4	3.6	3.1	3.6	2.8	2.3		2.8	2.2
44.0	2.1			2.7	3.3		3.3	3.4	3.0	3.2	2.6	2.2		2.6	2.0
48.0				1.8	2.2		2.4	3.0	2.9	2.7	2.4	2.1		2.3	1.8
52.0							1.6	2.0		1.9	2.2	2.0		2.0	1.7
56.0										1.2	1.8			1.5	1.5
60.0														1.4	1.3

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

35t

DIN/ISO/EN

m	13.2 m + 13.2 m			13.2 m + 19.2 m			13.2 m + 25.2 m			13.2 m + 31.2 m			13.2 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	18.0														
3.5	18.0			16.0											
4.0	18.0			15.7			10.4								
4.5	17.4			15.4			10.4								
5.0	16.7			15.0			10.4			6.4					
6.0	15.4			14.3			10.4			6.4				4.6	
7.0	14.4	11.5		13.6			10.4			6.4				4.6	
8.0	13.4	10.9		13.0			10.4			6.4				4.6	
9.0	12.6	10.3		12.4			10.0			6.4				4.6	
10.0	11.9	9.8		11.7			9.5			6.4				4.6	
11.0	11.2	9.4		11.1	9.0		9.0			6.4				4.6	
12.0	10.6	9.0	7.9	10.5	8.6		8.6			6.4				4.6	
14.0	9.6	8.3	7.4	9.5	7.9		7.8			6.3				4.6	
16.0	8.8	7.8	7.1	8.7	7.1	5.9	7.1	6.0		5.8				4.5	
18.0	8.1	7.3	6.8	7.8	6.5	5.5	6.5	5.6		5.4				4.2	
20.0	7.5	6.9	6.7	7.0	5.9	5.2	6.0	5.0		5.0				4.0	
22.0	7.1	6.7		6.3	5.5	4.9	5.5	4.6		4.6				3.7	
24.0				5.7	5.1	4.6	4.9	4.2		4.3	3.6			3.5	3.1
26.0				5.2	4.7	4.4	4.5	3.9	3.5	3.8	3.3			3.3	2.9
28.0				4.7	4.5		4.1	3.6	3.3	3.5	3.0			3.1	2.6
30.0							3.7	3.4	3.1	3.2	2.8			2.8	2.4
32.0							3.4	3.2	3.0	2.9	2.6	2.4		2.5	2.2
34.0							3.2	3.0		2.7	2.4	2.2		2.3	2.1
36.0							2.9			2.5	2.3	2.1		2.1	1.9
38.0										2.3	2.2	2.0		2.0	1.8
40.0										2.1	2.0			1.8	1.7
44.0														1.5	1.5
48.0														1.3	1.3

23.5t

DIN/ISO/EN

m	68.0 m + 13.2 m			68.0 m + 19.2 m			68.0 m + 25.2 m			68.0 m + 31.2 m			68.0 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°			0°		
14.0	6.5														
16.0	6.5			4.6											
18.0	6.4			4.6											
20.0	6.3	5.9		4.6			3.6				2.8			2.3	
22.0	6.2	5.9		4.6			3.6				2.8			2.3	
24.0	6.1	5.8	5.4	4.6	4.6		3.6				2.8			2.3	
26.0	6.0	5.6	5.2	4.6	4.6		3.6				2.8			2.3	
28.0	5.9	5.4	5.0	4.6	4.4		3.6	3.6			2.8			2.3	
30.0	5.7	5.2	4.9	4.6	4.3	3.9	3.6	3.6			2.8			2.3	
32.0	4.9	5.0	4.7	4.6	4.1	3.8	3.6	3.4			2.8			2.3	
34.0	4.1	4.8	4.6	4.5	4.0	3.7	3.6	3.3			2.8			2.3	
36.0	3.4	4.2	4.5	3.8	3.9	3.6	3.6	3.2	3.0		2.8			2.3	
38.0	2.8	3.5	4.1	3.1	3.8	3.5	3.3	3.1	2.9		2.8			2.3	
40.0	2.2	2.9	3.4	2.6	3.5	3.4	2.7	3.0	2.8		2.7			2.3	
44.0	1.3	1.9	2.3	1.6	2.5	3.1	1.7	2.8	2.6	1.8				1.9	
48.0			1.4		1.6	2.1		1.9	2.5						
52.0						1.3		1.2	1.8						

23.5t

DIN/ISO/EN

m	63.4 m + 13.2 m			63.4 m + 19.2 m			63.4 m + 25.2 m			63.4 m + 31.2 m			63.4 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°		0°		
14.0	7.5			5.2											
16.0	7.3			5.2			4.0				3.2				
18.0	7.2			5.2			4.0				3.2			2.5	
20.0	7.0	6.7		5.2			4.0				3.2			2.5	
22.0	6.9	6.4		5.2	5.2		4.0				3.2			2.5	
24.0	6.8	6.2	5.7	5.2	5.1		4.0				3.2			2.5	
26.0	6.7	6.0	5.5	5.2	4.9		4.0	4.0			3.2			2.5	
28.0	6.4	5.8	5.4	5.2	4.7		4.0	3.9			3.2			2.5	
30.0	6.0	5.6	5.2	5.2	4.5	4.2	4.0	3.8			3.2	3.0		2.5	
32.0	5.0	5.4	5.0	5.0	4.4	4.1	4.0	3.6			3.2	3.0		2.5	
34.0	4.2	5.0	4.9	4.4	4.3	3.9	4.0	3.5	3.2		3.2	2.9		2.5	
36.0	3.5	4.3	4.8	3.7	4.1	3.8	3.9	3.4	3.1		3.2	2.8		2.5	
38.0	2.9	3.6	4.1	3.1	4.0	3.7	3.4	3.3	3.0		3.2	2.7		2.4	
40.0	2.3	3.0	3.5	2.5	3.4	3.6	2.8	3.2	3.0		2.9	2.6		2.4	
44.0	1.4	1.9	2.4	1.6	2.4	3.0	1.9	2.9	2.8	1.9	2.4	2.4		2.0	
48.0			1.4		1.5	2.0		2.0	2.7		2.3	2.3		1.2	
52.0						1.2		1.3	1.9		1.5	1.5			
56.0									1.2						

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Lifting Capacities

HYDRO 8.3m 360° 23.5t DIN/ISO/EN

m	34.1 m + 13.2 m			34.1 m + 19.2 m			34.1 m + 25.2 m			34.1 m + 31.2 m			34.1 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
6.0	17.9														
7.0	17.2			13.1											
8.0	16.4			13.1			8.9								
9.0	15.8			13.1			8.9			5.7					
10.0	15.1			12.9			8.9			5.7			4.1		
11.0	14.5	10.4		12.6			8.9			5.7			4.1		
12.0	14.0	10.2		12.3			8.9			5.7			4.1		
14.0	13.0	9.6		11.6			8.8			5.7			4.1		
16.0	12.1	9.1	7.6	10.9	8.2		8.4			5.7			4.1		
18.0	11.4	8.7	7.3	10.3	7.8		7.9			5.7			4.1		
20.0	10.7	8.3	7.1	9.7	7.4	5.8	7.5	5.7		5.7			4.1		
22.0	10.1	8.0	6.9	9.1	7.1	5.6	7.1	5.4		5.4			4.1		
24.0	8.5	7.7	6.8	8.7	6.8	5.4	6.7	5.2		5.2	4.1		3.9		
26.0	7.0	7.5	6.6	7.7	6.5	5.2	6.3	5.0		5.0	3.9		3.8		
28.0	5.7	6.8	6.5	6.4	6.2	5.0	6.0	4.8	3.8	4.7	3.7		3.6		
30.0	4.6	5.6	6.3	5.4	5.9	4.9	5.7	4.6	3.7	4.5	3.6		3.4	2.8	
32.0	3.7	4.6	5.2	4.4	5.6	4.7	5.1	4.4	3.5	4.3	3.4	2.7	3.3	2.7	
34.0	2.9	3.7	4.1	3.6	4.7	4.6	4.3	4.2	3.4	4.1	3.3	2.6	3.2	2.6	
36.0	2.3	2.9	3.2	2.9	3.9	4.5	3.6	4.0	3.3	3.9	3.1	2.5	3.0	2.5	
38.0	1.7	2.2		2.3	3.2	3.8	2.9	3.8	3.2	3.3	2.9	2.4	2.9	2.4	1.8
40.0		1.5		1.8	2.5	3.1	2.4	3.5	3.1	2.7	2.8	2.3	2.8	2.2	1.8
44.0					1.4		1.4	2.3	3.0	1.8	2.6	2.2	2.1	2.0	1.6
48.0								1.3	1.8		1.9	2.1	1.3	1.8	1.5
52.0												1.6		1.6	1.4
56.0															1.4

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

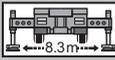
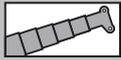
Motor Grader

HYDRO 8.3m 360° 23.5t DIN/ISO/EN

m	13.2 m + 13.2 m			13.2 m + 19.2 m			13.2 m + 25.2 m			13.2 m + 31.2 m			13.2 m + 37.2 m		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
3.0	18.0														
3.5	18.0			16.0											
4.0	18.0			15.7			10.4								
4.5	17.4			15.4			10.4								
5.0	16.7			15.0			10.4			6.4					
6.0	15.4			14.3			10.4			6.4			4.6		
7.0	14.4	11.5		13.6			10.4			6.4			4.6		
8.0	13.4	10.9		13.0			10.4			6.4			4.6		
9.0	12.6	10.3		12.4			10.0			6.4			4.6		
10.0	11.9	9.8		11.7			9.5			6.4			4.6		
11.0	11.2	9.4		11.1	9.0		9.0			6.4			4.6		
12.0	10.6	9.0	7.9	10.5	8.6		8.6			6.4			4.6		
14.0	9.6	8.3	7.4	9.5	7.9		7.8			6.3			4.6		
16.0	8.8	7.8	7.1	8.7	7.1	5.9	7.1	6.0		5.8			4.5		
18.0	8.1	7.3	6.8	7.8	6.5	5.5	6.5	5.6		5.4			4.2		
20.0	7.5	6.9	6.7	7.0	5.9	5.2	6.0	5.0		5.0			4.0		
22.0	7.1	6.7		6.3	5.5	4.9	5.5	4.6		4.6			3.7		
24.0				5.7	5.1	4.6	4.9	4.2		4.3	3.6		3.5	3.1	
26.0				5.2	4.7	4.4	4.5	3.9	3.5	3.8	3.3		3.3	2.9	
28.0				4.7	4.5		4.1	3.6	3.3	3.5	3.0		3.1	2.6	
30.0							3.7	3.4	3.1	3.2	2.8		2.8	2.4	
32.0							3.4	3.2	3.0	2.9	2.6	2.4	2.5	2.2	
34.0							3.2	3.0		2.7	2.4	2.2	2.3	2.1	
36.0							2.9			2.5	2.3	2.1	2.1	1.9	1.7
38.0										2.3	2.2	2.0	2.0	1.8	1.6
40.0										2.1	2.0		1.8	1.7	1.5
44.0													1.5	1.5	1.4
48.0													1.3	1.3	

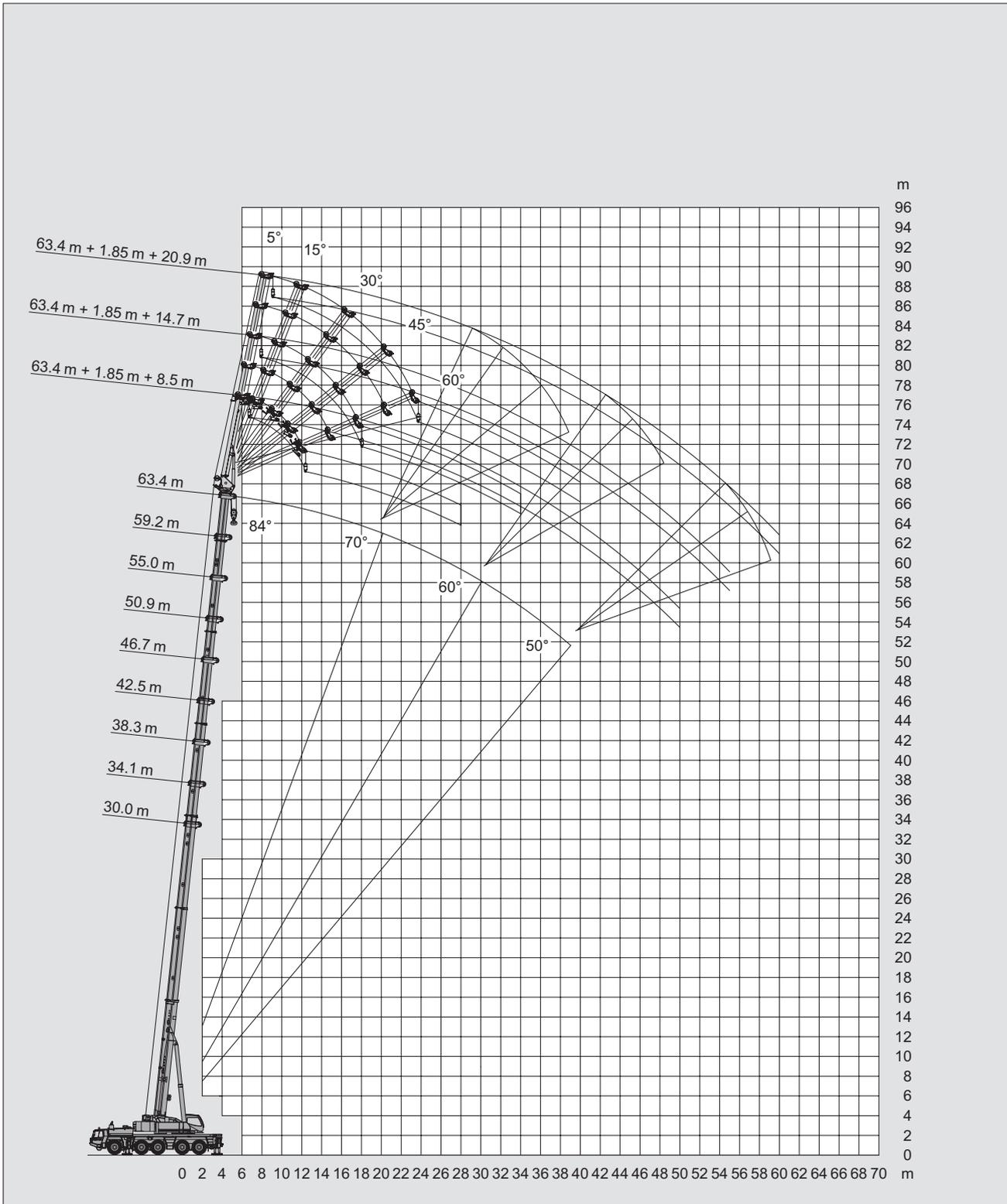
Lifting Heights

220t
ATF220G-5



71t

DIN/ISO/EN



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL
- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1

220t ATF220G-5

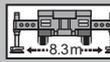
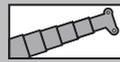
Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader

Lifting Capacities



71t

DIN/ISO/EN

m	63.4 m + 1.85 m + 8.5 m					63.4 m + 1.85 m + 11.6 m					63.4 m + 1.85 m + 14.7 m					63.4 m + 1.85 m + 17.8 m					63.4 m + 1.85 m + 20.9 m					
	5°	15°	30°	45°	60°	5°	15°	30°	45°	60°	5°	15°	30°	45°	60°	5°	15°	30°	45°	60°	5°	15°	30°	45°	60°	
14.0	7.0	7.0				6.1	6.0				5.4					4.7										
16.0	6.8	6.6	6.3			5.9	5.7	5.3			5.4	5.2				4.7	4.5							4.2		
18.0	6.3	6.1	5.9	5.7		5.5	5.3	5.0	4.8		5.2	4.9				4.6	4.3							4.2	4.0	
20.0	6.0	5.8	5.5	5.3	5.3	5.2	5.0	4.7	4.5	4.5	4.8	4.6	4.3			4.3	4.0	3.8						4.0	3.7	
22.0	5.6	5.4	5.1	5.0	5.0	4.9	4.7	4.4	4.3	4.2	4.5	4.3	4.1	3.9		4.0	3.8	3.6						4.0	3.7	
24.0	5.3	5.1	4.8	4.7	4.7	4.6	4.4	4.2	4.1	4.0	4.3	4.1	3.9	3.7	3.7	3.7	3.4	3.2	3.1	3.1				3.8	3.5	
26.0	4.9	4.8	4.6	4.4	4.4	4.3	4.1	3.9	3.9	3.8	4.0	3.8	3.6	3.5	3.5	3.8	3.6	3.4	3.3	3.2				3.6	3.4	
28.0	4.6	4.5	4.3	4.2	4.2	4.1	3.9	3.7	3.6	3.6	3.8	3.6	3.5	3.3	3.3	3.6	3.4	3.2	3.1	3.1	3.1			3.3	3.2	
30.0	4.3	4.2	4.1	4.0		4.1	3.9	3.7	3.6	3.6	3.8	3.6	3.5	3.3	3.3	3.6	3.4	3.2	3.0	2.9	2.9	2.9			3.2	3.0
32.0	4.0	4.0	3.9	3.8		3.8	3.7	3.5	3.4		3.6	3.4	3.3	3.2	3.2	3.4	3.2	3.0	2.9	2.9	2.9	2.9			3.2	3.0
34.0	3.8	3.7	3.6	3.6		3.6	3.5	3.3	3.3		3.4	3.2	3.1	3.0	3.0	3.2	3.0	2.9	2.8	2.8	2.8	2.8			3.0	2.9
36.0	3.6	3.5	3.4	3.4		3.4	3.3	3.2	3.1		3.2	3.1	2.9	2.8		3.0	2.9	2.7	2.7	2.6	2.6				2.8	2.7
38.0	3.3	3.3	3.2	3.2		3.2	3.1	3.0	2.9		3.0	2.9	2.8	2.7		2.9	2.7	2.6	2.5	2.5					2.7	2.5
40.0	3.1	3.1	3.0	3.0		3.0	2.9	2.8	2.8		2.8	2.8	2.6	2.6		2.7	2.6	2.4	2.4	2.4					2.5	2.4
42.0	3.0	2.9	2.8			2.8	2.7	2.7	2.6		2.7	2.6	2.5	2.4		2.5	2.4	2.3	2.3	2.3					2.4	2.3
44.0	2.8	2.7	2.7			2.6	2.6	2.5	2.5		2.5	2.4	2.4	2.3		2.4	2.3	2.2	2.1	2.1					2.3	2.2
46.0	2.4	2.6	2.5			2.5	2.4	2.4			2.4	2.3	2.3	2.2		2.3	2.2	2.1	2.0	2.0					2.2	2.1
48.0	2.3	2.3	2.2			2.2	2.3	2.2			2.2	2.2	2.1			2.1	2.1	2.0	2.0	2.0					2.0	1.9
50.0	2.1	2.1	2.1			2.0	2.0	2.1			2.1	2.0	2.0			2.0	1.9	1.9	1.9	1.9					1.9	1.8
55.0						1.3	1.5	1.7			1.6	1.6	1.6			1.6	1.7	1.6	1.6	1.6					1.6	1.6
60.0																1.0	1.3	1.3	1.3	1.3					1.3	1.2

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

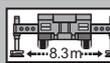
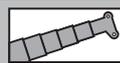
Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader



71t

DIN/ISO/EN

m	34.1 m + 1.85 m + 8.5 m					34.1 m + 1.85 m + 11.6 m					34.1 m + 1.85 m + 14.7 m					34.1 m + 1.85 m + 17.8 m					34.1 m + 1.85 m + 20.9 m						
	5°	15°	30°	45°	60°	5°	15°	30°	45°	60°	5°	15°	30°	45°	60°	5°	15°	30°	45°	60°	5°	15°	30°	45°	60°		
7.0	27.5	21.5				14.6																					
8.0	25.8	20.5				14.6					13.9					13.5											
9.0	24.2	19.7	16.0			14.6	14.6				13.9					13.2											
10.0	22.8	18.8	15.6			14.6	14.6				13.9	12.8				12.8											
11.0	21.6	18.1	15.2	13.4		14.6	14.6	11.9			13.9	12.2				12.4	10.5							5.6			
12.0	20.5	17.4	14.8	13.2	12.1	14.6	14.1	11.6			13.9	11.7				12.0	10.0							5.6			
14.0	18.5	16.2	14.1	12.8	11.9	14.6	13.0	11.0	9.7		12.8	10.7	8.9			11.0	9.2						5.6	5.6			
16.0	16.9	15.1	13.5	12.5	11.8	13.9	12.1	10.4	9.4	8.6	11.5	9.9	8.4	7.4		9.9	8.5	7.1					5.6	5.6			
18.0	15.6	14.2	12.9	12.2	11.7	12.6	11.3	10.0	9.1	8.4	10.4	9.2	8.0	7.2	6.5	9.0	7.8	6.7					5.6	5.6	5.6		
20.0	14.4	13.4	12.5	12.0	11.7	11.6	10.6	9.5	8.9	8.4	9.6	8.6	7.6	6.9	6.4	8.2	7.3	6.4	5.6				5.6	5.6	5.6		
22.0	13.4	12.7	12.0	11.8		10.7	9.9	9.2	8.7	8.3	8.8	8.1	7.3	6.7	6.3	7.5	6.8	6.1	5.5	4.9			5.6	5.6	5.4	4.6	
24.0	12.5	12.0	11.7	11.6		10.0	9.4	8.8	8.5		8.1	7.6	7.0	6.6	6.2	6.9	6.4	5.8	5.3	4.8			5.6	5.6	5.1	4.5	3.9
26.0	11.7	11.5	11.4	11.5		9.3	8.9	8.5	8.4		7.5	7.1	6.7	6.4	6.2	6.4	6.0	5.6	5.2	4.7			5.6	5.4	4.9	4.3	3.9
28.0	11.1	11.0	11.1	11.5		8.7	8.5	8.3	8.2		7.0	6.8	6.5	6.3		5.9	5.7	5.3	5.0	4.7			5.4	5.1	4.7	4.2	3.8
30.0	10.5	10.6	10.9			8.2	8.1	8.1	8.2		6.6	6.4	6.3	6.2		5.5	5.4	5.1	4.9				5.0	4.8	4.5	4.1	3.8
32.0	9.5	9.6	9.7			7.7	7.7	7.9			6.2	6.1	6.1	6.1		5.2	5.1	5.0	4.8				4.7	4.5	4.3	4.0	
34.0	8.1	8.3	8.5			7.3	7.4	7.7			5.8	5.8	5.9	6.1		4.9	4.8	4.8	4.8				4.4	4.3	4.1	3.9	
36.0	6.7	6.9				6.9	7.2	7.6			5.5	5.6	5.8			4.6	4.6	4.7	4.7				4.1	4.1	4.0	3.8	
38.0	5.5	5.6				6.6	6.8				5.2	5.4	5.7			4.3	4.4	4.5					3.8	3.9	3.9	3.8	
40.0	4.4					5.5	5.7				4.9	5.2	5.6			4.1	4.2	4.4					3.6	3.7	3.8	3.7	
42.0						4.5	4.6				4.7	5.0				3.9	4.1	4.4					3.4	3.5	3.7		
44.0						3.6					4.5	4.6				3.7	3.9	4.3					3.2	3.4	3.6		
46.0											3.6					3.5	3.8						3.0	3.2	3.5		
48.0																3.4	3.7						2.9	3.1			
50.0																2.9							2.8	3.0			

Aerial Platform Boom Lift

Manual PDF	
<p>Boom Lift 38m SX-125XC (Genie)</p>	
<p>Boom Lift 26m S-85 (Genie)</p>	
<p>Boom Lift 24m Z-80/60 (Genie)</p>	
<p>Boom Lift 18m Z-62/40 (Genie)</p>	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

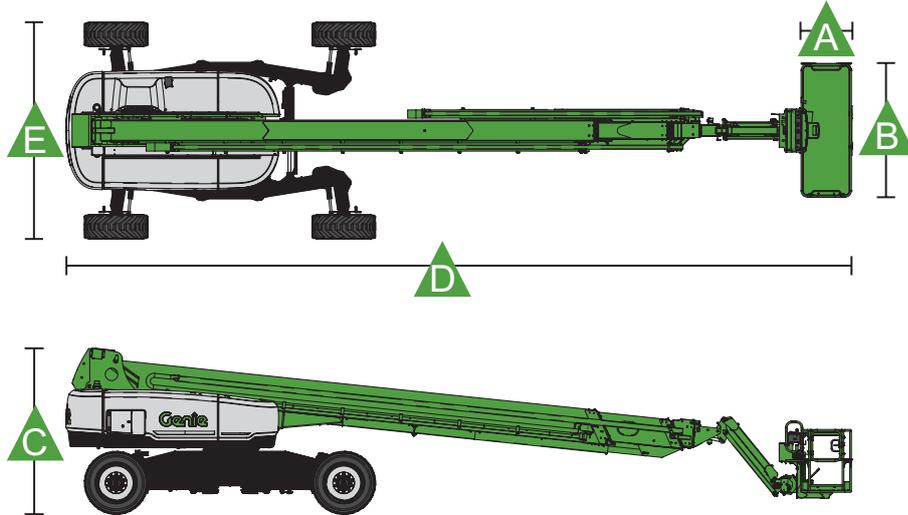
Bull Dozer

Vibro Roller
Baby Roller

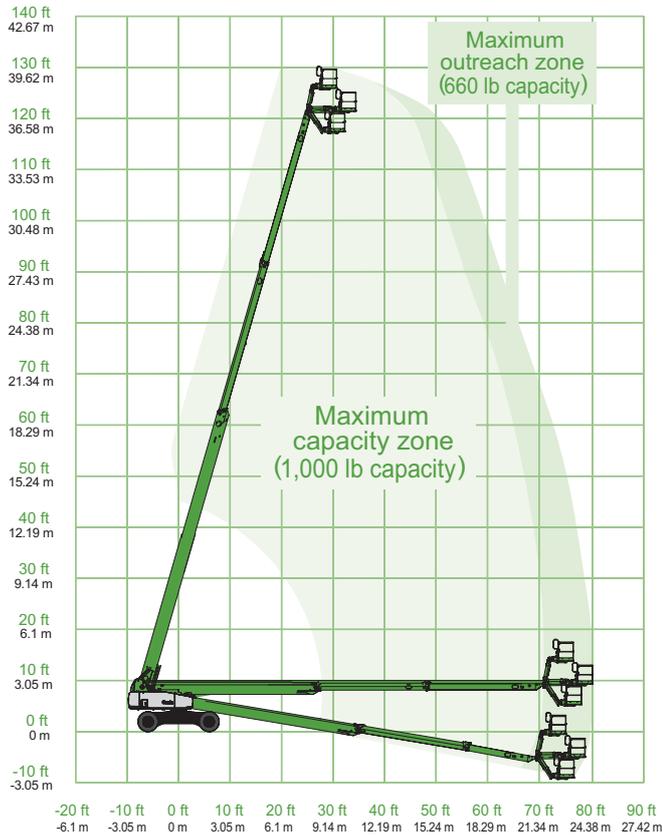
Motor Grader

Boom Lift 38m

Dimensions



Range Of Motion



Capacity	38m	
Maker	Genie	
Model	SX-125XC	
Platform Height (mm)	38100	
Lift Capacity (kg)	300	
Platform (mm)	Length A	8ft model : 910 / 6ft model : 760
	Width B	8ft model : 2440 / 6ft model : 1830
Gradeability (%)	40	
Dimensions (mm)	Height C	3050
	Length D	stowed : 14250 / transport(jib tucked under) : 12190
	Width E	axles retracted : 2490 / axles extended : 3940
Weight (kg)	20700	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

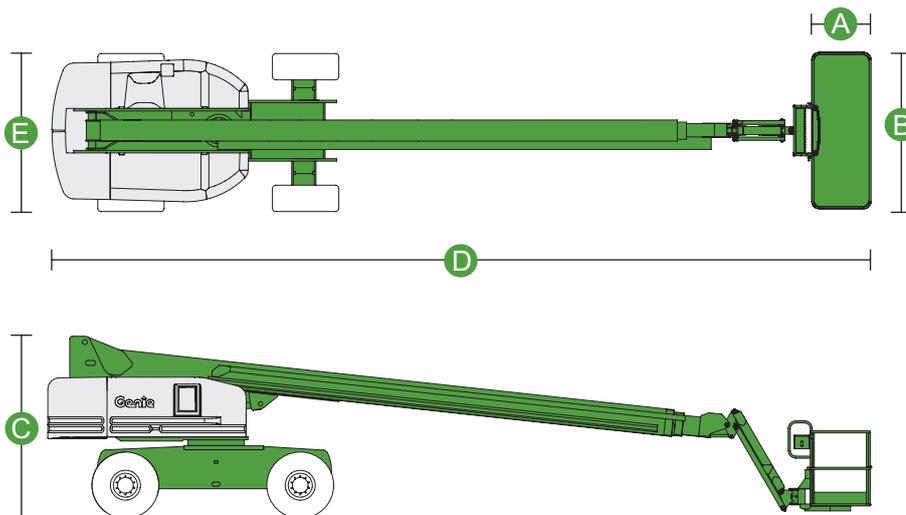
Bull Dozer

Vibro Roller Baby Roller

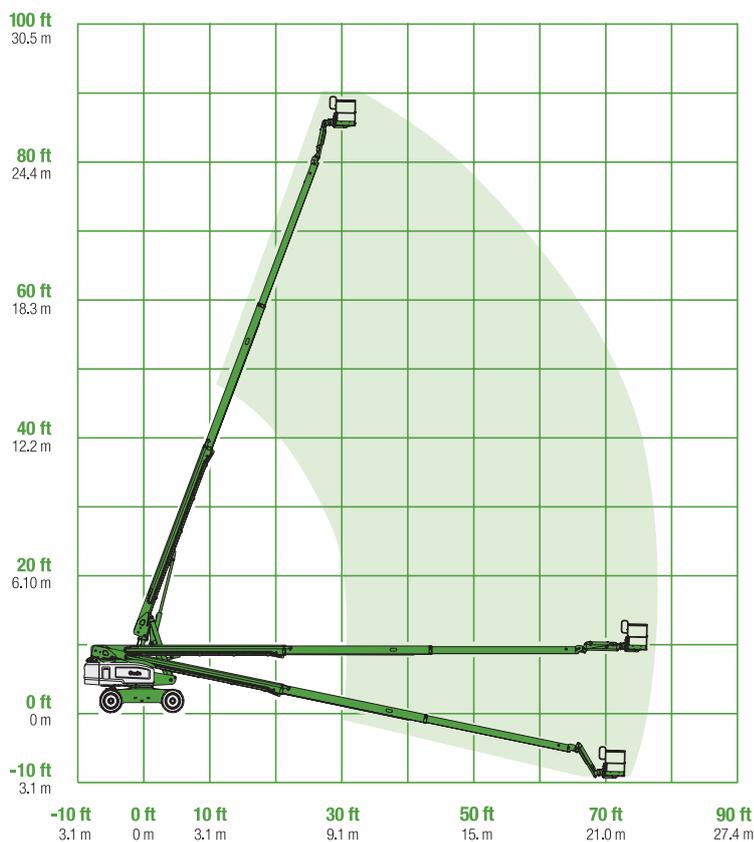
Motor Grader

Boom Lift 26m

Dimensions



Range Of Motion



Capacity	26m	
Maker	Genie	
Model	S-85	
Platform Height (mm)	25910	
Lift Capacity (kg)	227	
Platform (mm)	Length A	910
	Width B	2440
Gradeability (%)	45	
Dimensions (mm)	Height C	2800
	Length D	stowed : 12190 / transport(jib tucked under) : 11580
	Width E	2490
Weight (kg)	17563	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

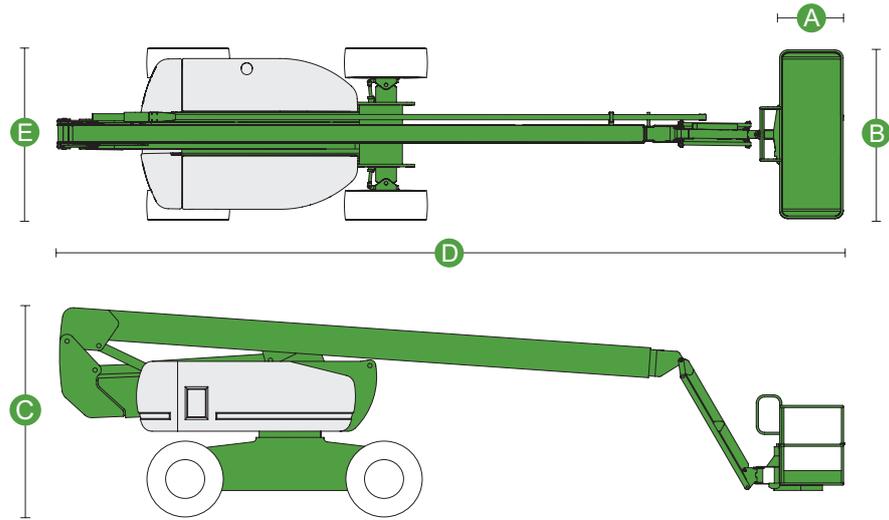
Bull Dozer

Vibro Roller
Baby Roller

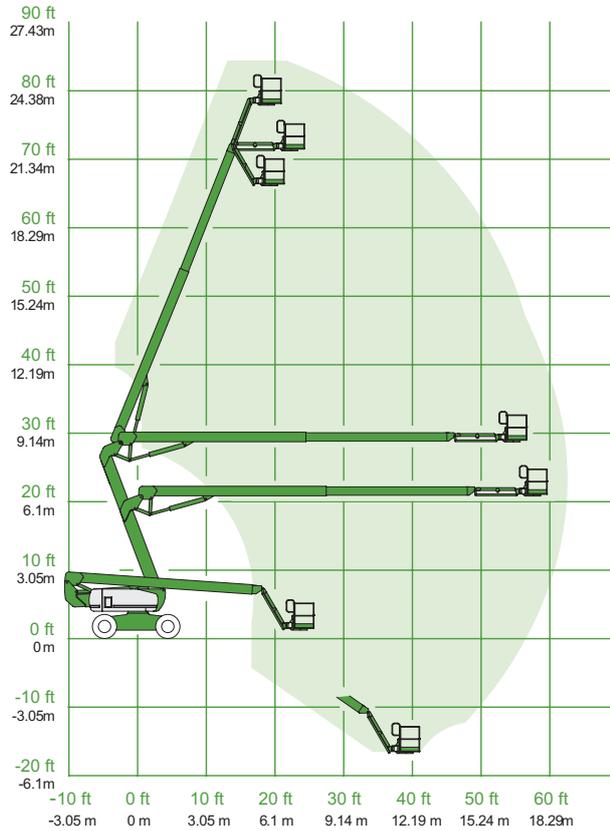
Motor Grader

Boom Lift 24m

Dimensions



Range Of Motion



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

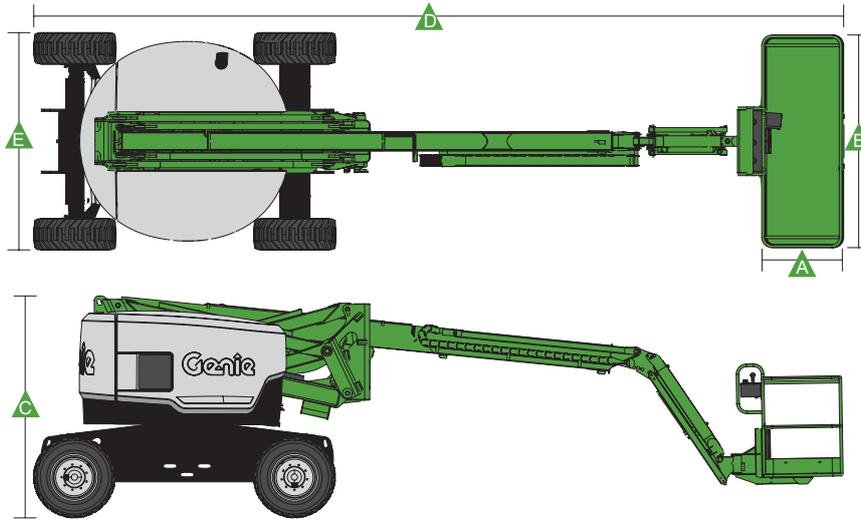
Vibro Roller Baby Roller

Motor Grader

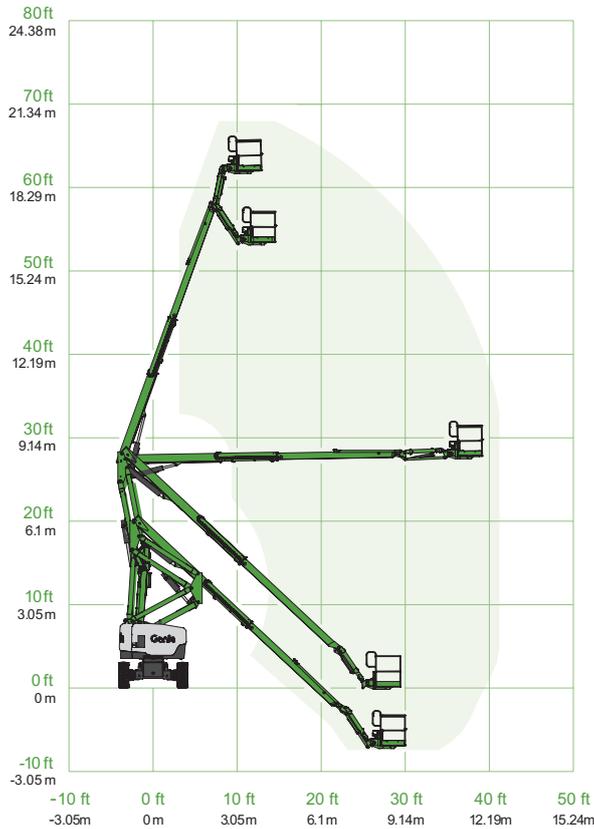
Capacity	24m	
Maker	Genie	
Model	Z-80/60	
Platform Height (mm)	23770	
Lift Capacity (kg)	227	
Platform (mm)	Length A	910
	Width B	2440
Gradeability (%)	45	
Dimensions (mm)	Height C	3000
	Length D	11270
	Width E	2490
Weight (kg)	17010	

Boom Lift 18m

Dimensions



Range Of Motion



Capacity	18m	
Maker	Genie	
Model	Z-62/40	
Platform Height (mm)	18870	
Lift Capacity (kg)	227	
Platform (mm)	Length A	8ft model : 910 / 6ft model : 760
	Width B	8ft model : 2440 / 6ft model : 1830
Gradeability (%)	2WD : 30 / 4WD : 45	
Dimensions (mm)	Height C	2540
	Length D	stowed : 9250 / transport(jib tucked under) : 7580
	Width E	2490
Weight (kg)	2WS : 10052 / 4WS : 10281	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Aerial Platform Scissors Lift

Manual PDF

<p>Scissors Lift 9.8m GS-3246 (Genie)</p>	
<p>Scissors Lift 12m COMPACT12 (Haulotte)</p>	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

9.8m GS-3246

Specifications

Models	GS-3246	
Measurements	US	Metric
Working height maximum*	38 ft	11.75 m
▲ Platform height maximum	32 ft	9.75 m
▲ Platform height stowed	4 ft 2.75 in	1.29 m
▲ Platform length - outside	7 ft 5 in	2.26 m
extended	10 ft 5 in	3.18 m
Slide-out platform extension deck	3 ft	0.91 m
▲ Platform width - outside	3 ft 9.3 in	1.15 m
Guardrail height	3 ft 7 in	1.09 m
Toeboard height	6 in	0.15 m
▲ Height - stowed: folding guardrails	7 ft 10 in	2.39 m
rails folded	5 ft 11 in	1.80 m
▲ Length stowed	7 ft 11 in	2.41 m
extended	10 ft 10.5 in	3.31 m
▲ Width	3 ft 10 in	1.17 m
▲ Wheelbase	6 ft 1 in	1.85 m
▲ Ground clearance - center	3.76 in	95 mm
▲ - with pothole guards deployed	0.75 in	0.019 m

Productivity

Maximum platform occupancy**	2	2
Lift capacity	700 lbs	318 kg
Lift capacity - extension deck	250 lbs	113 kg
Drive speed - stowed	2.2 mph	3.5 km/h
Drive speed - raised	0.5 mph	0.8 km/h
Gradeability - stowed		25%
Turning radius - inside	zero	zero
Turning radius - outside	7 ft 6 in	2.29 m
Raise / lower speed	57 / 35 sec	57 / 35 sec
Controls	proportional	
Drive	dual front wheel	
Multiple disc brakes	dual rear wheel	
Tires - solid non-marking	15 x 5 x 11 in	38 x 13 x 28 cm

Power

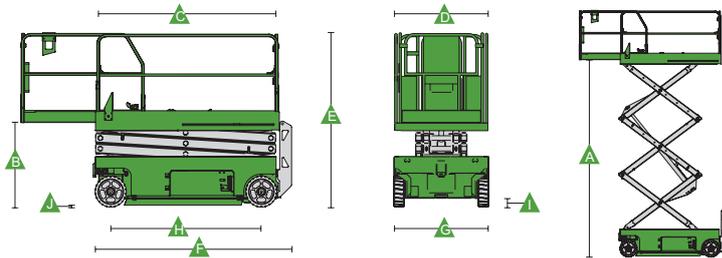
Power source	24 V (four 6 V 225 Ah batteries)	
Hydraulic system capacity	4.5 gal	17 L

Weight****

ANSI/CSA	5,211 lbs	2,364 kg
CE/AUS	6,200 lbs	2,812 kg

Standards Compliance

ANSI A92.6, CSA B354.2, CE Compliance, AS 1418.10



- * The metric equivalent of working height adds 2 m to platform height. U.S. adds 6 ft to platform height.
- ** CE/AUS markets: Two person maximum occupancy on all models. GS-3246 outdoor maximum occupancy is one person.
- *** Gradeability applies to driving on slopes. See operator's manual for details regarding slope ratings.
- **** Weight will vary depending on options and/or country standards.

Features

Standard Features

Measurements

GS-3246

- 38 ft (11.75 m) working height
- Up to 700 lbs (318 kg) lift capacity

Productivity

- 89 x 45.3 in (2.26 x 1.15 m) steel platform
- 36 in (.91 m) extension deck
- Folding rails with full height swing gate
- Dual front wheel drive
- Universal 20 amp smart charger
- Rear recessed charger receptacle
- SmartLink™ - proportional lift and drive
- Platform control with battery charge indicator and diagnostic display
- On-board diagnostic system
- AC power to platform
- Lanyard attachment points
- Manual platform lowering valve
- Emergency stop at both platform and ground controls
- Rear wheel multiple disc brakes
- Front wheel hydraulic dynamic braking
- Brake release
- Swing-out component trays
- Solid non-marking tires
- Pothole guards
- Tilt level sensor with audible alarm
- Descent alarm
- Electronic horn
- Hour meter

Power

- 24 V DC (four 6 V 225 Ah batteries)

Options & Accessories

Productivity Options

- Air line to platform
- Dual flashing beacons
- Motion alarm
- Automotive horn
- Biodegradable hydraulic fluid

Power Options

- Power inverter (120 V/60 Hz)
- EE rating
- AGM maintenance-free batteries

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller Baby Roller

Motor Grader

Truck Mounted Crane

Manual PDF	
<p>Truck Mounted Crane 5t 8m (TADANO TM-ZE553HRS)</p>	
<p>Truck Mounted Crane 8t 8m (TADANO TM-ZR865RS)</p>	
<p>Truck Mounted Crane 10t 8m (TADANO TM-ZT1005H)</p>	
<p>Truck Mounted Crane 15t 8m (TADANO TM-ZX1505HRS)</p>	

**Crawler
Crane**

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

**Rough
Terrain
Crane**

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

**All Terrain
Crane**

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

**Aerial
Platform**

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

Excavator

Bull Dozer

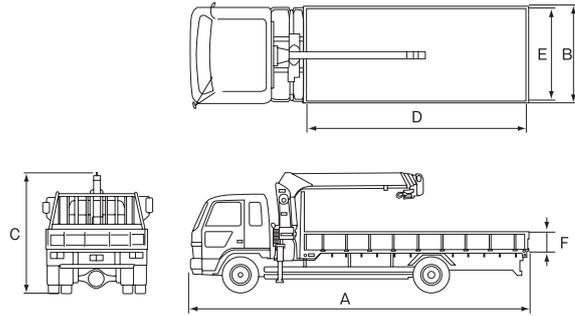
Vibro Roller
Baby Roller

Motor Grader

5t8m Specifications



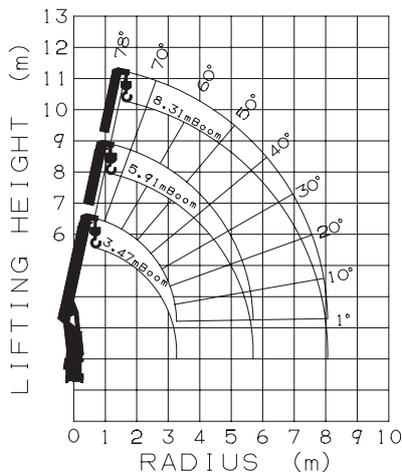
Dimensions



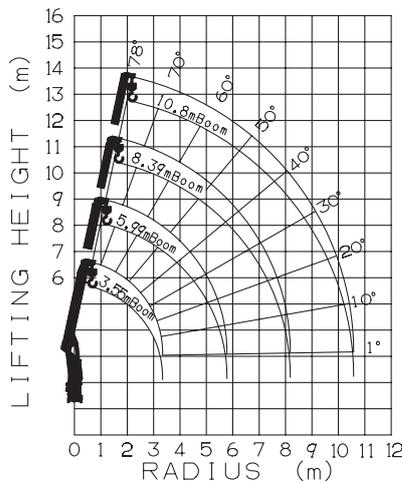
Capacity		Truck 8t + Crane 5t (3 Section)	Truck 8t + Crane 5t (4 Section)	Truck 8t + Crane 5t (5 Section)	
Crawler Crane 55t 7055 80t CKS800 90t CKS900 135t CKS1350 180t CKE1800 250t CKE2500-2	Maker	TADANO	TADANO	TADANO	
	Model	TM-ZT503H	TM-ZT504H	TM-ZT505H	
	Capacity (t)	5	5	5	
	Boom Section	3	4	5	
	Boom Length (m)	3.47 ~ 8.31	3.55 ~ 10.80	3.77 ~ 13.34	
	Maximum Radius (m)	8.09	10.58	13.12	
	Outrigger Max Exten (m)	3.8	3.8	3.8	
Rough Terrain Crane 25t GR-250N-2 30t GR-300EX 50t GR-500EXL 60t GR-600EX 80t GR-800EX All Terrain Crane 160t ATF160G-5 200t LTM1200-5.1 220t ATF220G-5 Aerial Platform Boom Lift Scissors Lift Others Truck Mounted Crane Forklift Tele handler Excavator Bull Dozer Vibro Roller Baby Roller Motor Grader	Maker	MITSUBISHI	MITSUBISHI	MITSUBISHI	
	Model	FM517HL	FM517HL	FM517HL	
	Dimensions (mm)	Length A	8805	8805	8805
		Width B	2490	2490	2490
		Height C	3675	3675	3675
	Body Insite Dimensions (mm)	Length D	5550	5550	5550
		Width E	2340	2340	2340
		Height F	450	450	450
	Loading Capacity (kg)	5335	5200	5000	
	Gross Vehicle Weight (kg)	13635	13635	13635	

5t8m Working Ranges

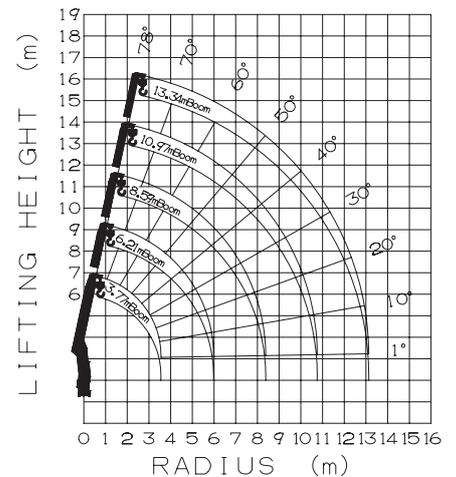
TM-ZT503H



TM-ZT504H



TM-ZT505H



NOTES :

The above lifting heights and boom angles are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions.

5t8m Rated Lifting Capacities

TM-ZT503H

Load Radius	3.47 m Boom	Load Radius	5.91 m Boom	Load Radius	8.31 m Boom
2.35 m and below	5,050	2.95 m and below	4,050	3.8 m and below	3,130
2.95 m	4,050	3.8 m	3,130	4.1 m	2,930
3.25 m	3,700	4.1 m	2,930	4.5 m	2,580
		4.5 m	2,580	5.0 m	2,280
		5.0 m	2,280	5.5 m	2,030
		5.69 m	1,950	6.0 m	1,830
				6.5 m	1,680
				7.0 m	1,550
				7.5 m	1,430
				8.09m	1,280

NOTES :

1. The above numerical values of total rated loads are based on crane strength only. The total rated loads based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.
2. Rated Lifting Capacities in these tables depend on condition that crane is set level on firm level ground.
3. The mass of hook block (50kg), slings and all similarly used load handling devices must be added to the mass of the load.
4. For boom lengths not shown, use the rated lifting capacity of next longer boom.

TM-ZT504H

Load Radius	3.55 m Boom	Load Radius	5.99 m Boom	Load Radius	8.39 m Boom	Load Radius	10.8 m Boom
2.35 m and below	5,050	2.95 m and below	4,050	3.8 m and below	3,130	4.5 m and below	2,030
2.95 m	4,050	3.8 m	3,130	4.1 m	2,930	5.0 m	1,830
3.33 m	3,630	4.1 m	2,930	4.5 m	2,580	6.0 m	1,480
		4.5 m	2,580	5.0 m	2,280	7.0 m	1,230
		5.0 m	2,280	5.5 m	2,030	8.0 m	1,080
		5.77 m	1,900	6.0 m	1,830	9.0 m	980
				6.5 m	1,680	10.0 m	880
				7.0 m	1,550	10.58 m	830
				7.5 m	1,430		
				8.17m	1,280		

- NOTES :**
1. The above numerical values of total rated loads are based on crane strength only. The total rated loads based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.
 2. Rated Lifting Capacities in these tables depend on condition that crane is set level on firm level ground.
 3. The mass of the hook (50 kg), slings and all similarly used load handling devices must be added to the mass of the load.
 4. For boom lengths not shown, use the rated lifting capacity of next longer boom.
 5. 8.39m boom means  mark on 3rd boom section side plate is half seen.

TM-ZT505H

Load Radius	3.77 m Boom	Load Radius	6.21 m Boom	Load Radius	8.59 m Boom	Load Radius	10.97 m Boom	Load Radius	13.34 m Boom
2.25 m and below	5,050	2.85 m and below	4,050	3.6 m and below	3,130	4.5 m and below	2,030	5.0 m and below	1,330
2.85 m	4,050	3.6 m	3,180	3.9 m	2,930	5.0 m	1,830	6.0 m	1,100
3.55 m	3,230	3.9 m	2,930	4.5 m	2,430	6.0 m	1,480	7.0 m	950
		4.5 m	2,430	5.0 m	2,130	7.0 m	1,230	8.0 m	830
		5.0 m	2,130	5.5 m	1,880	8.0 m	1,030	9.0 m	730
		5.5 m	1,880	6.0 m	1,650	9.0 m	880	10.0 m	650
		5.99 m	1,650	6.5 m	1,480	10.0 m	780	11.0 m	600
				7.0 m	1,350	10.75 m	730	12.0 m	550
				7.5 m	1,230			13.12 m	500
				8.37 m	1,080				

- NOTES :**
1. The above numerical values of total rated loads are based on crane strength only. The total rated loads based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.
 2. Rated Lifting Capacities in these tables depend on condition that crane is set level on firm level ground.
 3. The mass of the hook (50 kg), slings and all similarly used load handling devices must be added to the mass of the load.
 4. For boom lengths not shown, use the rated lifting capacity of next longer boom.
 5. 10.97m boom means  mark on 4th boom section side plate is half seen.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

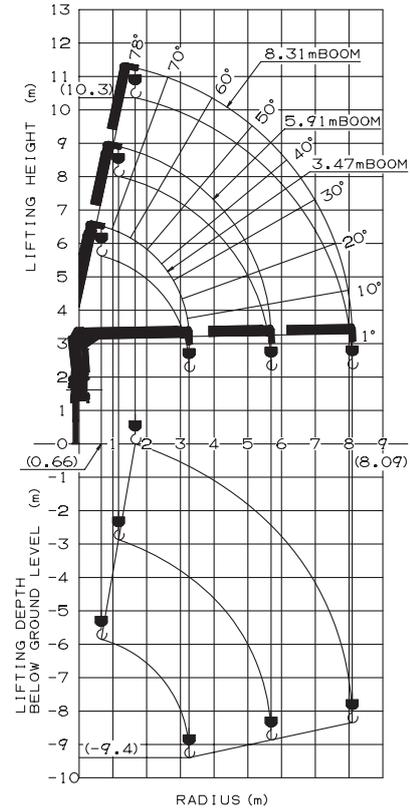
Motor Grader

5t8m Specifications



Capacity		Crane 5t (3 Section)
Crane	Maker	TADANO
	Model	TM-ZE553HRS
	Capacity (t)	5
	Boom Section	3
	Boom Length (m)	3.47 ~ 8.31
	Maximum Radius (m)	8.09
	Outrigger Max Exten (m)	3.8

5t8m Working Ranges



NOTE: The above lifting heights and boom angles are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions.

5t8m Rated Lifting Capacities

Table A

Load Radius	3.47m Boom		Load Radius	5.91m Boom		Load Radius	8.31m Boom	
	Extension width of outriggers			Extension width of outriggers			Extension width of outriggers	
	Maximum	Minimum		Maximum	Minimum		Maximum	Minimum
2.5m and below	5,050	2,380	2.6m and below	4,050	2,380	2.6m and below	3,130	2,380
2.8m	4,050	2,130	2.8m	4,050	2,130	3.4m	3,130	1,530
3.25m	3,280	1,680	3.3m	3,280	1,630	3.8m	2,680	1,330
			3.6m	2,930	1,430	4.1m	2,430	1,180
			4.1m	2,430	1,180	4.5m	2,030	980
			4.5m	2,030	980	5.0m	1,730	880
			5.0m	1,730	880	5.5m	1,430	730
			5.5m	1,430	730	6.0m	1,330	630
			5.69m	1,380	680	6.5m	1,180	580
						7.0m	1,030	530
						7.5m	930	480
						8.09m	830	430

Table D

Load Radius	3.47m Boom		Load Radius	5.91m Boom		Load Radius	8.31m Boom	
	Extension width of outriggers			Extension width of outriggers			Extension width of outriggers	
	Maximum	Minimum		Maximum	Minimum		Maximum	Minimum
2.5m and below	5,050	2,380	2.6m and below	4,050	2,380	2.6m and below	3,130	2,380
2.95m	4,050	2,730	2.95m	4,050	2,730	3.0m	3,130	2,680
3.25m	3,700	2,380	3.8m	3,130	1,830	3.8m	3,130	1,830
			4.1m	2,930	1,630	4.1m	2,930	1,630
			4.5m	2,630	1,430	4.5m	2,630	1,430
			5.0m	2,380	1,180	5.0m	2,380	1,180
			5.5m	2,180	1,030	5.5m	2,180	1,030
			5.69m	2,080	980	6.0m	1,980	930
						6.5m	1,830	850
						7.0m	1,680	780
						7.5m	1,530	700
						8.09m	1,430	600

NOTES : 1. Empty Chassis Rated Capacities in these tables depend on condition that crane is set level on firm level ground.

2. The mass of hook block (45kg), slings and all similarly used load lifting devices must be added to the mass of the load.

3. For boom lengths not shown, use the rated lifting capacity of next longer boom.

4. When outriggers are extended to middle extension width, use the rated lifting capacities for outriggers are extended to minimum extension width.

5. Empty Chassis Rated Capacities table A, B, C and D depend on the types of chassis.

6. Empty Chassis Rated Capacities are shown for over-side areas and over-rear area.

These capacities for over-front area may lowered depending on the types of chassis.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller Baby Roller

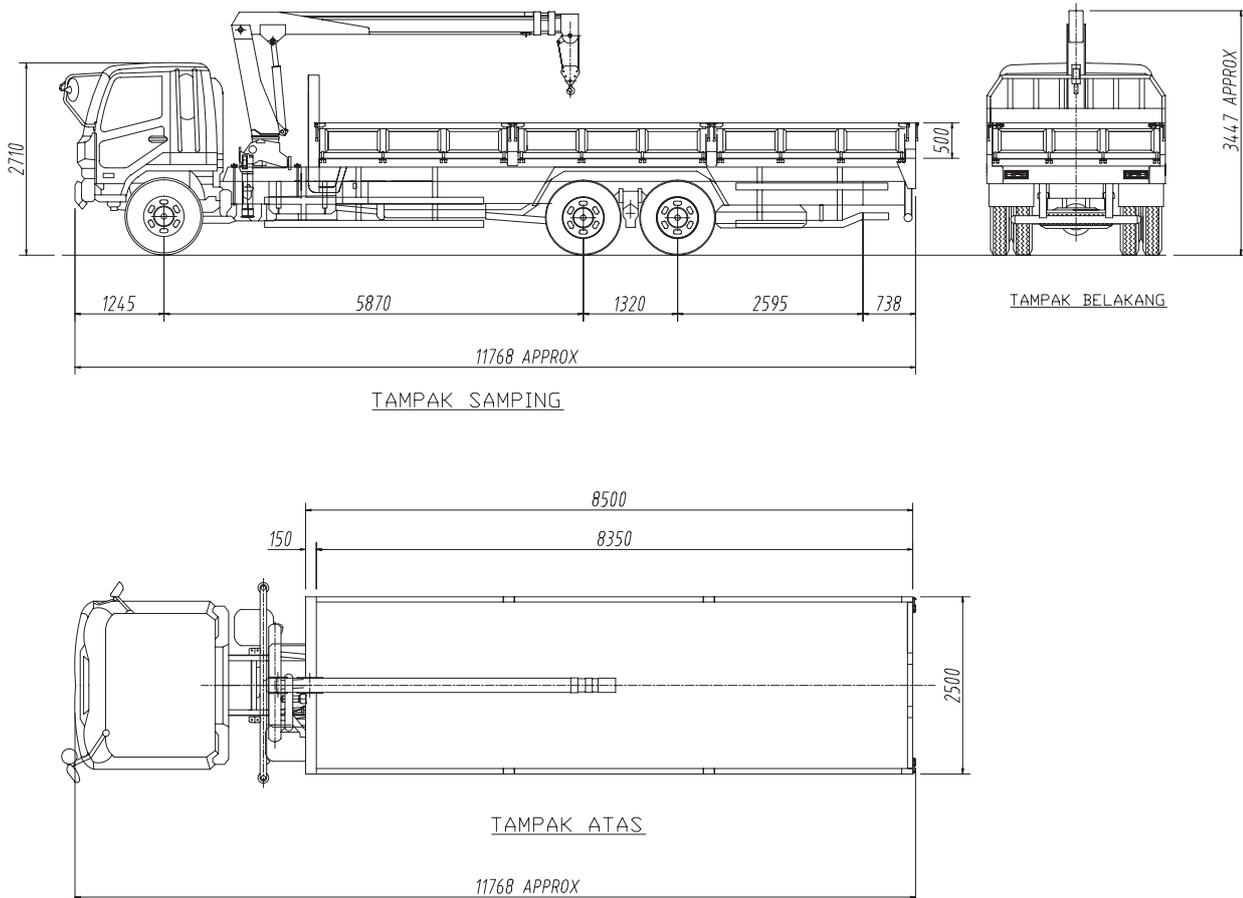
Motor Grader

5t8m Truck Specifications

DIMENSION		FVZ 34 T
OVERALL LENGTH (OAL)	mm	11.555
OVERALL WIDTH (OW)	mm	2.450
OVERALL HEIGHT (OH)	mm	2.860
WHEELBASE (WB)	mm	6.470 + 650
FRONT OVERHANG (FOH)	mm	1.440
REAR OVERHANG (ROH)	mm	2.995
CABIN TO END (CE)	mm	9.415
MINIMUM CLEARANCE (HH)	mm	235
FRONT TREAD (AW)	mm	1.970
REAR TREAD (CW)	mm	1.845
ENGINE		
MODEL		6 HK1-TCS
TYPE		IN-LINE 6 CYLINDERS, OHC DIRECT INJECTION DIESEL
BORE x STROKE	mm	115 X 125
PISTON DISPLACEMENT	cc	7.790
MAXIMUM POWER	PS/rpm	285 / 2.400
MAXIMUM TORQUE	Kgm/rpm	90 / 1.450 - 2.400
FUEL SUPPLY SYSTEM		HEAVY DUTY COMMONRAIL
WEIGHT		
VEHICLE MASS	kg	7.320
GROSS VEHICLE WEIGHT (GVW)	kg	26.000
TYRE		
FRONT TYRE		10.00-20-16PR (LUG)
REAR TYRE		10.00-20-16PR (LUG)
AXLE CAPACITY		
FRONT	kg	6.000
REAR	kg	20.000

TRANSMISSION		FVZ 34 T
MODEL		ZF 9S1110TD
GEAR RATIO	C	12.728
	1st	8.829
	2nd	6.281
	3rd	4.644
	4th	3.478
	5th	2.538
	6th	1.806
	7th	1.335
	8th	1.000
	Rev	12.040
FINAL GEAR RATIO		6.143
BRAKE		
BRAKE CONTROL		AIR OVER HYDRAULIC
SUSPENSION		
FRONT		MULTI LEAF
REAR		MULTI LEAF (TRUNNON SUSPENSION)
OTHERS		
FUEL TANK CAPACITY	ltr	200
MINIMUM TURNING RADIUS	m	10.4
MAXIMUM GRADEABILITY	%	47
ALTERNATOR	V-A	24 - 50
MAXIMUM SPEED	km/h	83
CABIN		WIDE-5 (WITH BED SPACE)
FRAME DIMENSION		850 X 258 X 10 + (4.5+12)
EMISION REGULATION		EURO 2
RADIO / CD / MP3		ADA

Dimensions (FN62FL-HD)



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

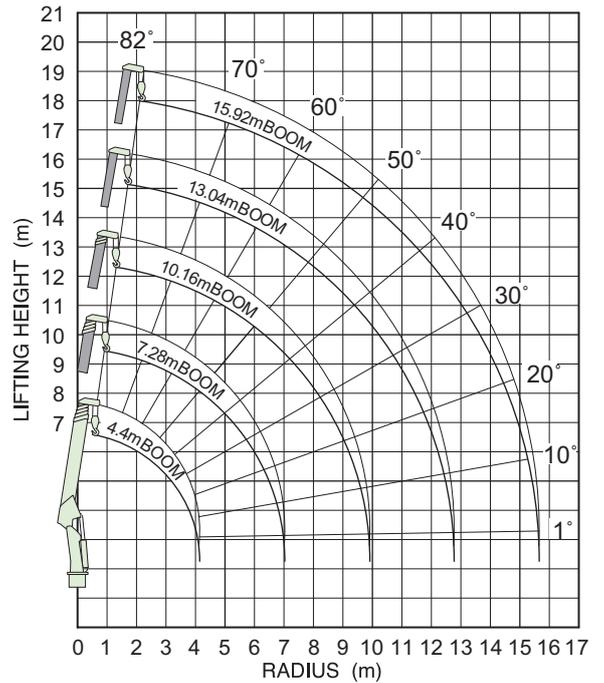
Motor Grader

8t8m Specifications



Capacity		Crane 8t (5 Section)
Crane	Maker	TADANO
	Model	TM-ZR865RS
	Capacity (t)	8
	Boom Section	5
	Boom Length (m)	4.4 ~ 15.92
	Maximum Radius (m)	15.67
	Outrigger Max Exten (m)	4.8

8t8m Working Ranges



NOTES FOR TECHNICAL SPECIFICATIONS:

- Operating speeds of the crane are guaranteed under the conditions that the pump delivery is 60L/min.
- *No allowance made for boom deflection under laden conditions.

NOTES FOR RATED LIFTING CAPACITIES:

The mass of hook block (90kg), slings and all similarly used load handling devices must be added to the mass of load.

NOTES FOR WORKING RANGE:

This chart does not include influence of boom deflection.

8t8m Rated Lifting Capacities

C	A		4.4m			7.28m			10.16m		
	B		Max	Mid.	Min.	Max	Mid.	Min.	Max	Mid.	Min.
1.8m _{and below}			8,200	6,000	4,000	6,000	6,000	4,000			
2.4m			6,000	6,000	4,000	6,000	6,000	4,000	3,000	3,000	2,900
2.9m			5,000	5,000	3,000	5,000	5,000	2,900	3,000	3,000	2,900
3.5m			4,200	4,200	2,300	4,200	4,200	2,150	3,000	3,000	2,150
4.0m						3,700	3,350	1,750	3,000	3,000	1,750
4.15m			3,350	3,250	1,650						
4.5m						3,300	2,700	1,350	3,000	2,700	1,350
4.6m						3,200	2,600	1,300	3,000	2,600	1,300
5.0m						2,900	2,200	1,100	2,700	2,200	1,100
6.0m						2,200	1,600	750	2,200	1,600	750
7.0m									1,800	1,250	500
7.03m						1,750	1,150	500			
8.0m									1,400	950	350
9.0m									1,150	750	200
9.91m									1,000	600	130

A: Boom Length

B: Outrigger extension width

C: Load radius

C	A		13.04m		15.92m	
	B		Max	Mid.	Max	Mid.
2.9m _{and below}			3,000	3,000		
3.5m			3,000	3,000	2,600	2,600
4.0m			3,000	3,000	2,600	2,600
4.5m			3,000	2,700	2,600	2,600
4.6m			2,900	2,600	2,600	2,600
5.0m			2,600	2,200	2,600	2,200
6.0m			2,000	1,600	2,000	1,600
7.0m			1,700	1,250	1,650	1,250
8.0m			1,400	950	1,400	950
9.0m			1,150	750	1,150	750
10.0m			1,000	600	1,000	600
11.0m			900	500	900	500
12.0m			750	450	750	450
12.7m			650	400		
13.0m					650	400
14.0m					550	350
15.67m					450	250

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

8t8m Truck Specifications

DIMENSION

		FVZ 34 U HP (N)	
Over all Length (OAL)	mm	11.945	
Over all Width (OW)	mm	2.485	
Over all Height (OH)	mm	2.975	
Wheel Base (WB1+WB2)	mm	5.825+1.370	
Front Over Hang (FOH)	mm	1.250	
Rear Over Hang (ROH)	mm	3.500	
Cabin to end (CE)	mm	9.840	
Min. Clearance (HH)	mm	285	
Chassis width	mm	870x305x7.8	
Tread	mm	2.060	
	Front (AW)		
	Rear (CW)	1.850	

WEIGHT

Vehicle Mass	Total	Kg	8.070
Gross Vehicle Mass (GVW)		Kg	26.000

ENGINE

Engine Model	6HK1-TCS		
Type	6Cyl, OHC, Dir Inj		
Bore and Stroke	mm	115x125	
Piston Displacement	cc	7.790	
Max. Output	PS/rpm	285/2400	
Max. Torque	Kgm/rpm	90/1450-2400	
CLUTCH DIAMETER	mm	380	

TRANSMISSION

Transmission Model/ Brand	ES11109DD		
Transmission Operational Type	Double H		
	Low	12.638	
	1st	8.807	
	2nd	6.550	
Gear Ratio	3rd	4.768	
	4th	3.548	
	5th	2.482	
	6th	1.846	
	7th	1.344	
	8th	1.000	
	Rev.	13.210	
Final Gear Ratio	to 1	6.143	

AXLE

Capacity Rear Axle	Kg	20,000
Capacity Front Axle	Kg	6,000

BRAKE

Type	Full Air	
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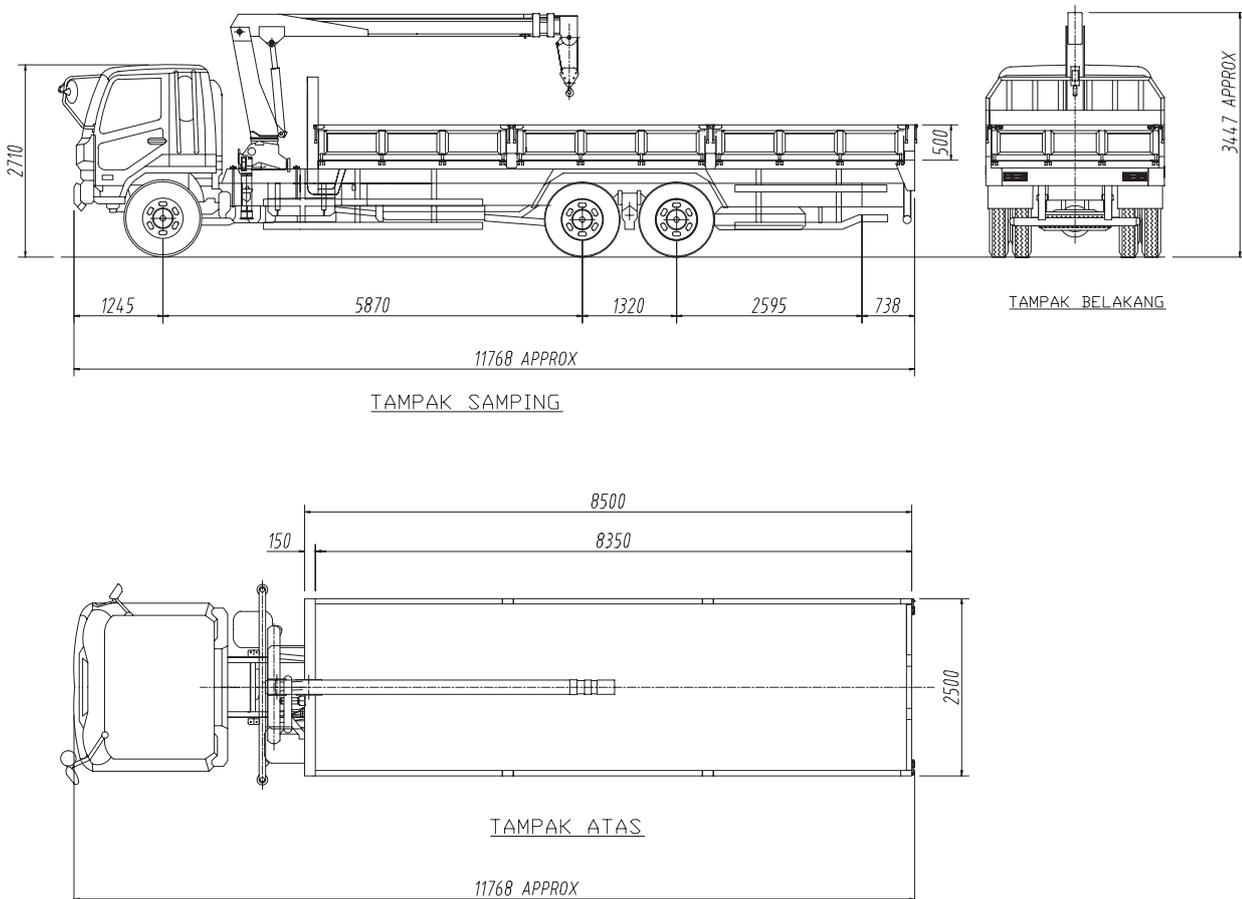
TYRE

Front	Single 11.00-20-16PR	
Rear	Double 11.00-20-16PR	
Type	Rib Lug	
Disk Wheel Size	10STUD 20X7.50T	

OTHERS

Fuel Tank Capacity	Liter	200
Min. Turning Radius	m	10.8
Max. Gradeability	%	45
Max. Speed	Km/h	83
Emission	Euro 2	
Body Color	White	
Cabin Suspension Type	Solid Rubber	
Underguard & Seat Suspension	Yes	
Warranty	1 Year/ 100.000 Km	
Alternator	V-A	24-60

Dimensions (FN62FL-HD)



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

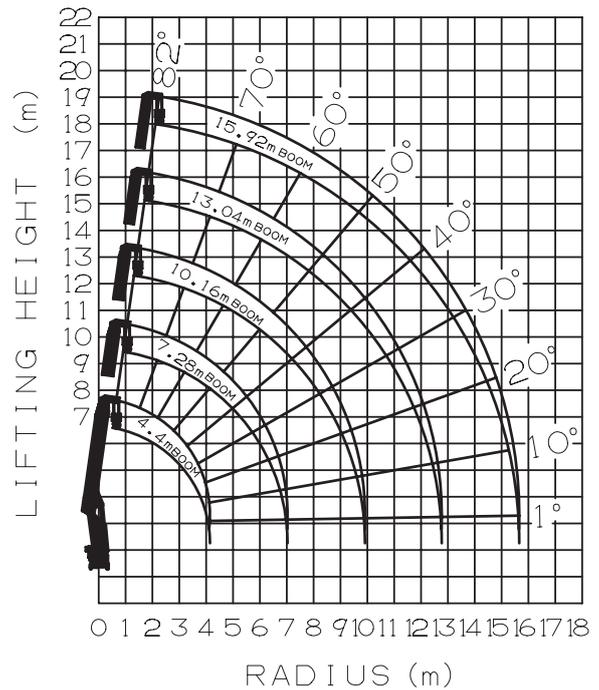
Motor Grader

10t8m Specifications



Capacity		Crane 10t (5 Section)
Crane	Maker	TADANO
	Model	TM-ZT1005H
	Capacity (t)	10
	Boom Section	5
	Boom Length (m)	4.4 ~ 15.92
	Maximum Radius (m)	15.67
	Outrigger Max Exten (m)	5.2

10t8m Working Ranges



NOTE: The above lifting heights and boom angles are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions.

10t8m Rated Lifting Capacities

Load Radius	4.4 m Boom	Load Radius	7.28 m Boom	Load Radius	10.16 m Boom	Load Radius	13.04 m Boom	Load Radius	15.92 m Boom
1.4 m and below	10,000	2.25 m and below	6,000	4.5 m and below	3,000	4.5 m and below	3,000	5.0 m and below	2,600
1.85 m	8,000	3.1 m	4,900	5.0 m	2,700	5.0 m	2,600	6.0 m	2,000
2.25 m	6,000	3.5 m	4,200	6.0 m	2,200	6.0 m	2,000	7.0 m	1,650
3.1 m	4,900	4.0 m	3,700	7.0 m	1,800	7.0 m	1,700	8.0 m	1,400
3.5 m	4,200	4.5 m	3,300	8.0 m	1,400	8.0 m	1,400	9.0 m	1,150
4.15 m	3,550	5.0 m	2,900	9.0 m	1,150	9.0 m	1,150	10.0 m	1,000
		6.0 m	2,200	9.91 m	1,000	10.0 m	1,000	11.0 m	900
		7.03 m	1,750			11.0 m	900	12.0 m	750
						12.0 m	750	13.0 m	650
						12.7 m	650	14.0 m	550
								15.67 m	450

NOTES : 1. The above numerical values of total rated loads are based on crane strength only.

The total rated loads based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.

2. Rated Lifting Capacities in these tables depend on condition that crane is set level on firm level ground.

3. The mass of the hook (90 kg), slings and all similarly used load lifting devices must be added to the mass of the load.

4. For boom lengths not shown, use the rated lifting capacity of next longer boom.

5. 13.04m boom means \sphericalangle mark on 4th boom section side plate is half seen.

6. When the lifting load is heavier than 6,000kg, number of part lines must be 8. In case of 6,000kg or less, number of part lines must be 4. Load per line must not surpass 14.7kN(1,500kgf).

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

10t8m Truck Specifications

DIMENSION		FVZ 34 T
OVERALL LENGTH (OAL)	mm	11.555
OVERALL WIDTH (OW)	mm	2.450
OVERALL HEIGHT (OH)	mm	2.860
WHEELBASE (WB)	mm	6.470 + 650
FRONT OVERHANG (FOH)	mm	1.440
REAR OVERHANG (ROH)	mm	2.995
CABIN TO END (CE)	mm	9.415
MINIMUM CLEARANCE (HH)	mm	235
FRONT TREAD (AW)	mm	1.970
REAR TREAD (CW)	mm	1.845

ENGINE		6 HK1-TCS
MODEL		6 HK1-TCS
TYPE		IN-LINE 6 CYLINDERS, OHC DIRECT INJECTION DIESEL
BORE x STROKE	mm	115 X 125
PISTON DISPLACEMENT	cc	7.790
MAXIMUM POWER	PS/rpm	285 / 2.400
MAXIMUM TORQUE	Kgm/rpm	90 / 1.450 - 2.400
FUEL SUPPLY SYSTEM		HEAVY DUTY COMMONRAIL

WEIGHT		
VEHICLE MASS	kg	7.320
GROSS VEHICLE WEIGHT (GVW)	kg	26.000

TYRE		
FRONT TYRE		10.00-20-16PR (LUG)
REAR TYRE		10.00-20-16PR (LUG)

AXLE CAPACITY		
FRONT	kg	6.000
REAR	kg	20.000

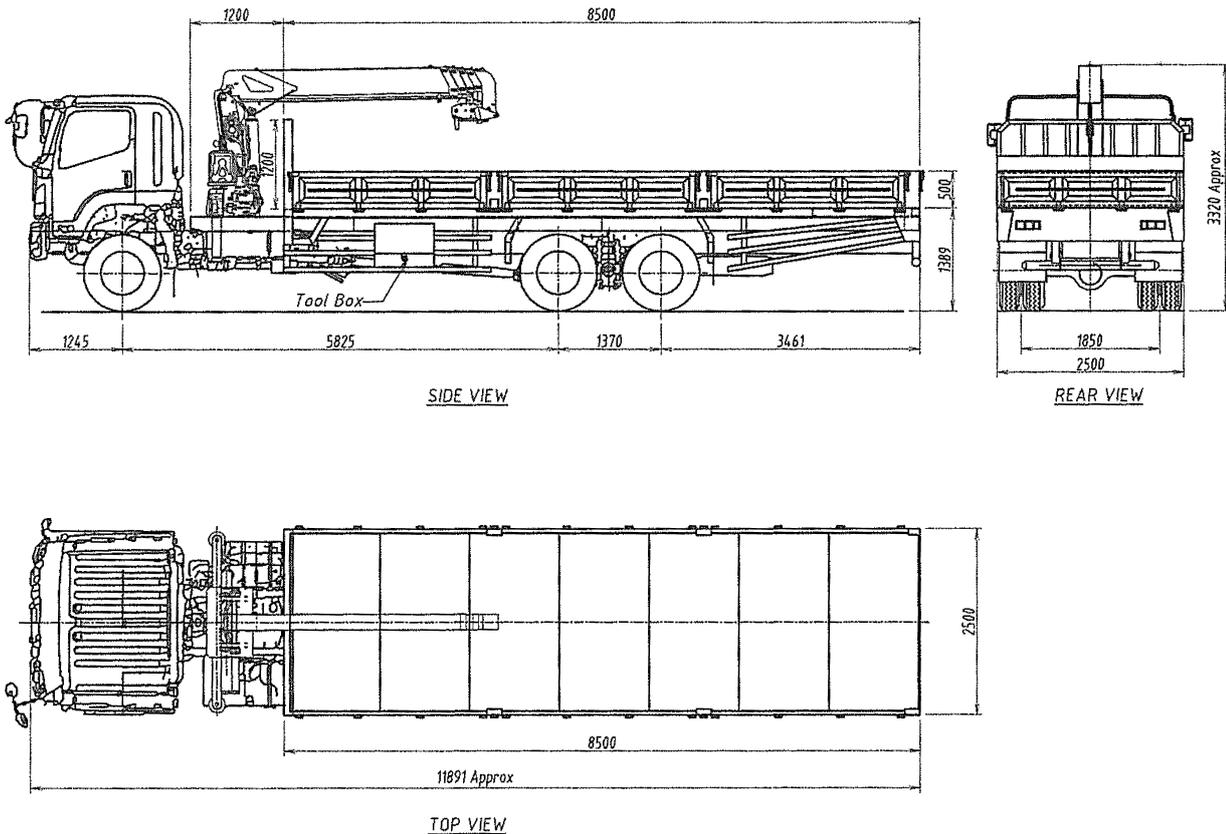
TRANSMISSION		FVZ 34 T
MODEL		ZF 9S1110TD
GEAR RATIO	C	12.728
	1st	8.829
	2nd	6.281
	3rd	4.644
	4th	3.478
	5th	2.538
	6th	1.806
	7th	1.335
	8th	1.000
	Rev	12.040
FINAL GEAR RATIO		6.143

BRAKE		AIR OVER HYDRAULIC
BRAKE CONTROL		AIR OVER HYDRAULIC

SUSPENSION		
FRONT		MULTI LEAF
REAR		MULTI LEAF (TRUNNON SUSPENSION)

OTHERS		
FUEL TANK CAPACITY	ltr	200
MINIMUM TURNING RADIUS	m	10.4
MAXIMUM GRADEABILITY	%	47
ALTERNATOR	V-A	24 - 50
MAXIMUM SPEED	km/h	83
CABIN		WIDE-5 (WITH BED SPACE)
FRAME DIMENSION		850 X 258 X 10 + (4.5+12)
EMISION REGULATION		EURO 2
RADIO / CD / MP3		ADA

Dimensions (FVM34U)



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

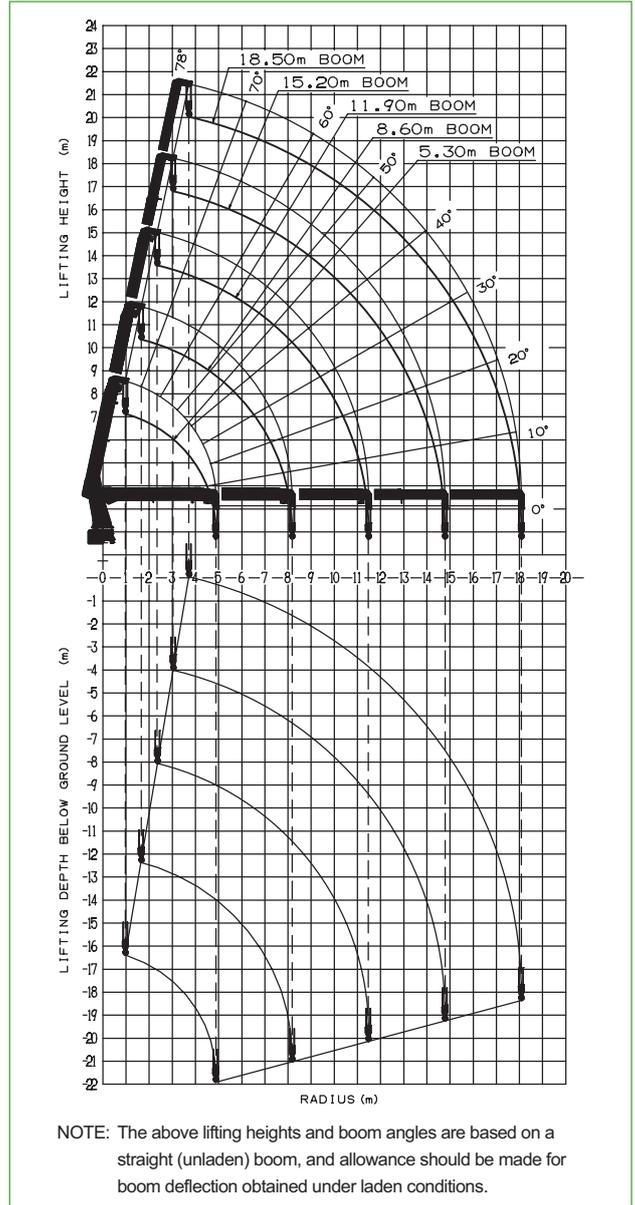
Motor Grader

15t8m Specifications



Capacity		Crane 15t (5 Section)
Crane	Maker	TADANO
	Model	TM-ZX1505HRS
	Capacity (t)	15
	Boom Section	5
	Boom Length (m)	5.3 ~ 18.5
	Maximum Radius (m)	18.07
	Outrigger Max Exten (m)	5.8

15t8m Working Ranges



15t8m Rated Lifting Capacities

(×1,000 kg) < over-side , over-rear area > (over-front area : 25% of empty chassis rated lifting capacity)

5.30 m BOOM		2.0 and below	2.5	3.0	3.5	4.0	4.5	4.87	
LOAD RADIUS(m)									
CRANE STRENGTH		15.00	12.00	10.00	8.75	7.50	6.60	6.10	
EMPTY CHASSIS	Extension width of outriggers	Max.	15.00	12.00	10.00	8.75	7.50	6.60	6.10
		Mid.	15.00	12.00	10.00	7.20	5.40	4.25	3.60
		Min.	8.00	5.00	3.50	2.65	2.05	1.60	1.35

15.20 m BOOM		4.0 and below	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	14.77	
LOAD RADIUS(m)															
CRANE STRENGTH		4.00	3.80	3.60	3.30	3.00	2.80	2.60	2.40	2.20	2.00	1.85	1.75	1.65	
EMPTY CHASSIS	Extension width of outriggers	Max.	4.00	3.80	3.60	3.30	3.00	2.35	1.90	1.55	1.30	1.10	0.95	0.80	0.70
		Mid.	4.00	3.80	3.35	2.35	1.70	1.30	1.00	0.75	0.55	0.45	0.35	0.25	0.22

8.60 m BOOM		3.0 and below	3.5	4.0	4.5	5.0	6.0	7.0	8.17	
LOAD RADIUS(m)										
CRANE STRENGTH		6.00	6.00	5.50	5.00	4.70	4.30	4.00	3.55	
EMPTY CHASSIS	Extension width of outriggers	Max.	6.00	6.00	5.50	5.00	4.70	4.30	3.15	2.25
		Mid.	6.00	6.00	5.25	4.15	3.35	2.35	1.70	1.20
		Min.	3.40	2.50	1.90	1.50	1.20	0.75	0.40	0.15

18.50 m BOOM		5.0 and below	6.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.07	
LOAD RADIUS(m)																
CRANE STRENGTH		3.45	3.20	2.90	2.70	2.50	2.30	2.10	1.90	1.70	1.55	1.45	1.35	1.25	1.20	
EMPTY CHASSIS	Extension width of outriggers	Max.	3.45	3.20	2.90	2.35	1.90	1.55	1.30	1.10	0.95	0.80	0.70	0.60	0.50	0.45
		Mid.	3.35	2.35	1.70	1.30	1.00	0.75	0.55	0.45	0.35	0.25	0.22	0.20	0.18	0.15

11.90 m BOOM		3.5 and below	4.0	4.5	5.0	6.0	7.0	8.0	9.0	10.0	11.47	
LOAD RADIUS(m)												
CRANE STRENGTH		4.10	4.10	4.10	3.90	3.50	3.20	3.00	2.80	2.60	2.30	
EMPTY CHASSIS	Extension width of outriggers	Max.	4.10	4.10	4.10	3.90	3.50	3.15	2.35	1.90	1.55	1.15
		Mid.	4.10	4.10	4.10	3.35	2.35	1.70	1.30	1.00	0.75	0.45
		Min.	2.50	1.90	1.50	1.20	0.75	0.40	0.20	0.15	-	-

All Terrain Crane

160t ATF160G-5

200t LTM1200-5.1

220t ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller Baby Roller

Motor Grader

15t8m Truck Specifications

Dimensi(mm)	CWE 280			
WB 1,Wheelbase 1	3700	4300	5600	6100
WB 2,Wheelbase 2	1370			
OL, Panjang total (Overall Length)	7750	7975	11175	11875
OW, Lebar total (Overall Width)	2500			
OH, Tinggi total (Overall Height)	3220			
FT, Jarak pijak roda depan (Front Tread)	2020			
RT, Jarak pijak roda belakang (Rear Tread)	1836			
FOH, Front Overhang	1480			
ROH, Rear Overhang	1125	1625	2725	
CA, Cabin ke rear axle (Cabin to rear axle end)	3595	4195	5495	9605
GC, Jarak terendah ke tanah (Ground Clearance)	313			
Minimal turning radius	8035	9050	10475	11750

Berat(Kg)				
Berat kosong chassis	8495	8525	8672	8707
GVW	26000			

Engine	GH8E (D8A280)			
Tipe	Mesin diesel Common Rail dengan 6 Silinder yang dilengkapi Overhead Camshaft. (Khusus WB3700 sudah dilengkapi dengan engine PTO)			
Isi silinder	7.7 liter			
Diameter x Langkah	110mm x 135mm			
Outputmaksimum	280hp (206kW) @ 2200 rpm / 284 ps			
Torsi maksimum	1050 Nm @ 1100 - 1700 rpm / 106 kgm			
Economy speed range	900 - 1600 rpm			
Standar emisi	Euro3			

Transmisi	ST1199			
Tipe	9 kecepatan, direct drive, dirancang untuk torsi 1190 Nm. (Khusus WB4300 sudah dilengkapi dengan transmisi PTO)			
Jumlah gigi	9maju dan 1 mundur			
Perbandingan gigi	Crawler	12.11	5th	2.41
	1st	8.08	6th	1.77
	2nd	5.96	7th	1.32
	3rd	4.42	8th	1.00
	4th	3.36	R1	12.66

Kopling	CS43-O			
Tipe	Single Plate			
Diameter kopling	430 mm			

Sumbu Depan	FAL 8			
Kapasitas beban maksimum	8000kg			

Sumbu Belakang	RTS2670			
Tipe	Tandem axle dengan single reduction			
Rear axle capacity	26000kg			
Final gear ratio	6.17:1	6.17:1	5.14:1	5.57:1

Suspensi				
Depan	Suspensi leaf tipe parabolic dengan shock absorbers untuk kenyamanan maksimum			
Belakang	Suspensi multi leaf (bebas pelumasan) dengan 11 leaf spring			

Chassis	FST8080			
Tipe	Frame chassis dengan ketebalan 8mm yang terbuat dari baja berkualitas tinggi			
Lebar x Tinggi x Tebal	90mm x 300mm x 8mm			
Inner liner	Ketebalan 5mm mulai dari akhir engine sampai dengan ujung chassis			

Rem				
Rem utama	Sistem rem full air dual-line dengan S-Cam dan brake chamber di posisi yang tinggi			
Rem tambahan	Exhaust Pressure Governor (EPG)			
Drive safer package optional	ABS (Antilock Brake System)			

Roda dan Ban				
Ukuran ban	11.20 Bias			
Ukuran roda	Steel Wheel rims - 8.0" x 20"			
Drive safer package optional	Tersedia dengan painted wheel protection ring			

Fuel Tank Cap.				
Volume tangki BBM	315 liter			

Sistem Elektrik				
Accu	2x12V 150Ah			

Steering				
Tipe	Integral power steering			

Performa				
Kecepatan maksimum dalam km/h	90			
speed limiter km/h (adjustable)	standard			
Gradability dalam tan \ominus	0.62			

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

15t8m Truck Specifications

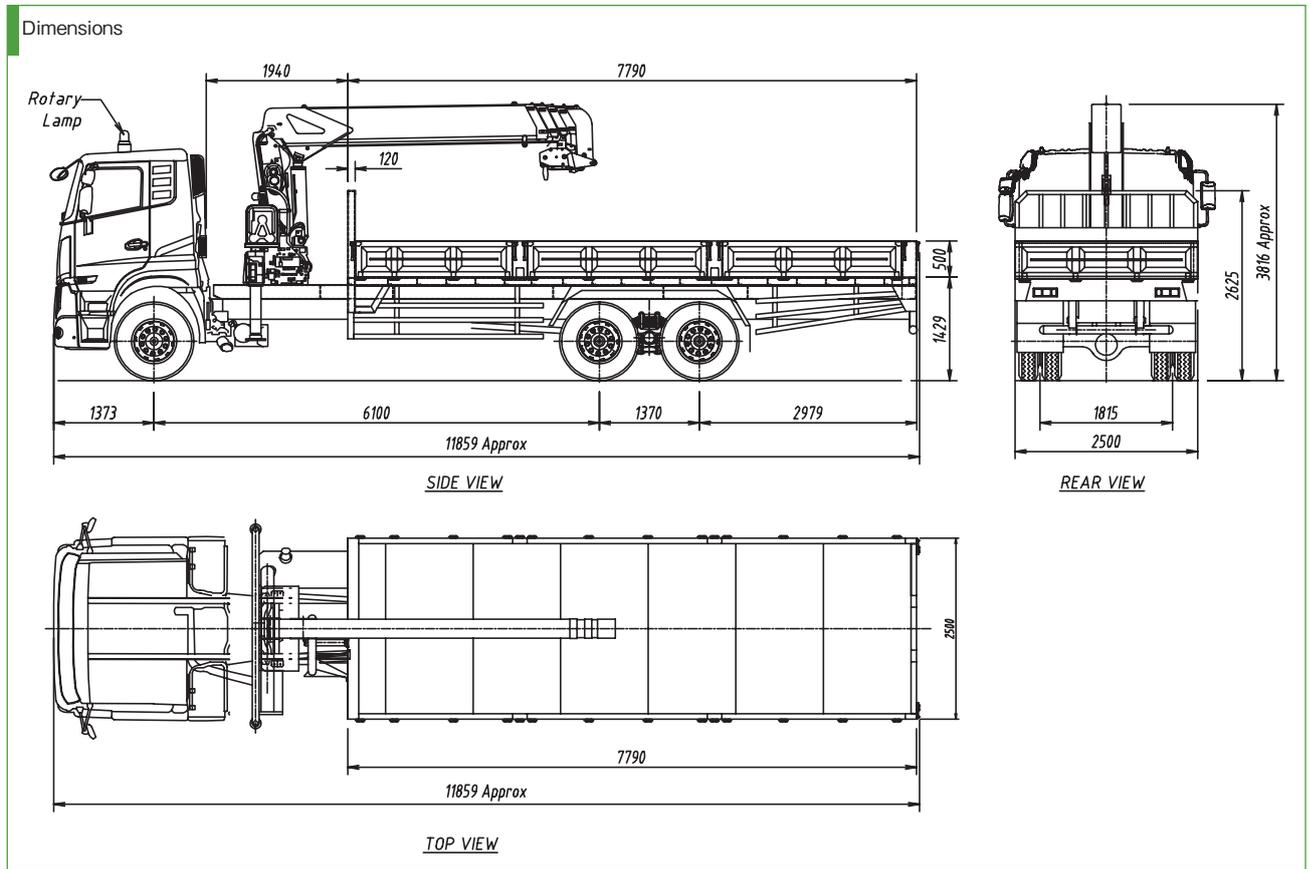
CWE 280				
	WB 3700	WB 4300	WB 5600	WB 6100
Kabin	SLEEPER CAB			
Tipe	Kabin Sleeper yang aerodinamis dan telah lulus uji tabrak (Crash-Test) sehingga sangat aman dan nyaman bagi pengemudi			

Interior	Standard	Option
	Mechanical window lift	Electrical window lift*
	Mechanical suspension seat	Air suspension seat
	Air conditioner	Auxiliary passenger seat
	Radio, MP3	Tachograph kit
	Lower bunk 600 mm wide	Basic cruise control*
	1 warning triangle	First aid kit
	Seat belt reminder with audio	Telematic system
	Fuel coaching system	Basic rear lower storage*
		Fire Extinguisher

*Tersedia sebagai standard untuk paket drive safer

Exterior	Standard	Option
	Pijakan masuk kabin (3 step)	PTO transmisi dan engine (untuk WB 5600 dan WB 6100)
	3 wiper blades	Electrical heated rear mirror*
	Kaca spion blind-spot disamping dan depan cabin	Roof air deflector
	Air horn - front mounted	Composite bumper & fog lamps
	Suspensi Kabin dengan spring	Beacon warning lights
Engine protector	Cab corner dirt deflector	

*Tersedia sebagai standard untuk paket drive safer



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CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

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GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

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LTM1200-5.1

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ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Forklift

Manual PDF	
<p>Forklift 15t FD150ANM1 (MITSUBISHI)</p>	
<p>Forklift 7t FD70NM (MITSUBISHI)</p>	
<p>Forklift 5t FD50N (MITSUBISHI)</p>	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

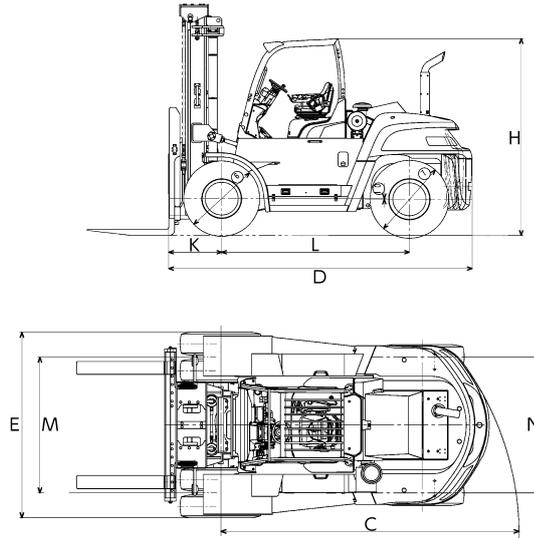
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

15t FD150ANM1

Dimensions



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

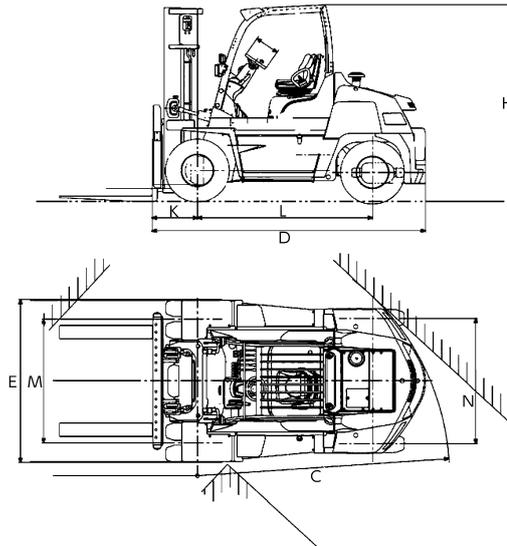
Vibro Roller Baby Roller

Motor Grader

Characteristics						
1	Type of Truck					DIESEL ENGINE TRUCK
2	Model					FD150ANM1
3	Loading Capacity		kg			15000
4	Load Center		mm			600
Performance						
5	Maximum Fork Height		mm			3000
6	Free Fork Height		mm			88
7	Speeds	Lifting	Loaded	mm/s		330
			Unloaded	mm/s		420
		Lowering	Loaded	mm/s		480
			Unloaded	mm/s		400
8	Tilt	Mast	Forward	deg		15
			Backward	deg		12
9	Speeds	Traveling	Loaded	km/h		19
			Unloaded	km/h		29.5
10	Maximum Drawbar Pull	stationary on slope	Loaded	kN		96
	Drawbar Pull	at 1.6km/h	Loaded	kN		67
11	Maximum Gradeability	stationary on slope	Loaded	%		30.9
	Gradeability	at 1.6km/h	Loaded	%		21.2
12	Turning Radius		mm	C		4550
13	Practical Intersecting Aisle Width		mm			3795
Dimensions						
14	Overall Length to Fork Face		mm	D		4830
15	Width	with Standard Tires	mm	E		2605
		with Lowered Mast	mm			3330
16	Height	with Extended Mast (with backrest)	mm			4830
		to top of Overhead Guard	mm	H		2960
17	Forks (Thickness x Width x Length)		mm			88x180x1220
18	Forks Spread (Out-to-Out Minimum / Maximum)		mm			480-2020
19	Front Overhang (Centre of Front Axle to Fork Face)		mm	K		795
20	Wheelbase		mm	L		3100
21	Tread Width	Front, Standard Tires	mm	M		1905
		Rear, Tires	mm	N		1925
22	Ground Clearance	at Lowest point mast	mm			300
		at Center of Wheelbase	mm			355
23	Tire Size	Front	mm			12.00-20-18PR
		Rear	mm			12.00-20-18PR
Weight						
24	Machine Weight		kg			17930
Brake						
25	Service Brake Type					Air Hydraulic Composite
26	Parking Brake Type					Mechanical
Power Train						
27	Engine	Model				6D16-TL
		Max. Rated Power/rpm to DIN70020		kW/rpm		100/2200
		Max. Rated Torque/rpm to DIN70020		Nm/rpm		490/1200
		Displacement		cc		7550
		Fuel Tank Capacity		L		220
28	Transmission	Type				Powershift
		Forward				3 speed
		Backward				3 speed
29	Relief of Pressure	For Attachments		Mpa		20.6

7t FD70NM

Dimensions



Characteristics					
1	Type of Truck				DIESEL ENGINE TRUCK
2	Model				FD70NM
3	Loading Capacity		kg		7000
4	Load Center		mm		600
Performance					
5	Maximum Fork Height	2SP33	mm		3300
6	Free Fork Height		mm		210
7	Speeds	Lifting	Loaded	mm/s	440
			Unloaded	mm/s	470
		Lowering	Loaded	mm/s	500
			Unloaded	mm/s	450
8	Tilt	Mast	Forward	deg	6
			Backward	deg	12
9	Speeds	Traveling	Loaded	km/h	22
			Unloaded	km/h	28
10	Maximum Drawbar Pull	stationary on slope at 1.6km/h	Loaded	kN	50
			Loaded	kN	37
11	Maximum Gradeability	stationary on slope at 1.6km/h	Loaded	%	33
			Loaded	%	24
12	Turning Radius		mm	C	3310
13	Practical Intersecting Aisle Width		mm		2930
Dimensions					
14	Overall Length to Fork Face		mm	D	3592
15	Width	with Standard Tires	mm	E	2173
		with Lowred Mast	mm		2720
16	Height	with Extended Mast (with backrest) to top of Overhead Guard	mm		4580
			mm	H	2610
			mm		70x150x1220
17	Forks (Thickness x Width x Length)		mm		70x150x1220
18	Forks Spread (Out-to-Out Minimum / Maximum)		mm		350 - 1700
19	Front Overhang (Center of Front Axle to Fork Face)		mm	K	597
20	Wheelbase		mm	L	2300
21	Tread Width	Front, standard Tires	mm	M	1650
		Rear, Tires	mm	N	1650
22	Ground Clearance	at Lowest point mast	mm		170
		at Center of Wheelbase	mm		263
23	Tire Size	Front	mm		8.25-15-12PR(I)
		Rear	mm		8.25-15-12PR(I)
Weight					
24	Machine Weight				9470
Brake					
25	Service Brake Type				Hydraulic with vacuum boost
26	Parking Brake Type				Mechanical
Power Train					
27	Engine	Model			S6S
		Max. Rated Power/rpm to DIN70020	kW/rpm		67.7/2300
		Max. Rated Torque/rpm to DIN70020	Nm/rpm		290/1600
		Displacement	cc		4996
		Fuel Tank Capacity	L		130
28	Transmission	Type			Powershift
		Forward			2 speed
		Backward			2 speed
29	Relief of Pressure	For Attachments	Mpa		19.1

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

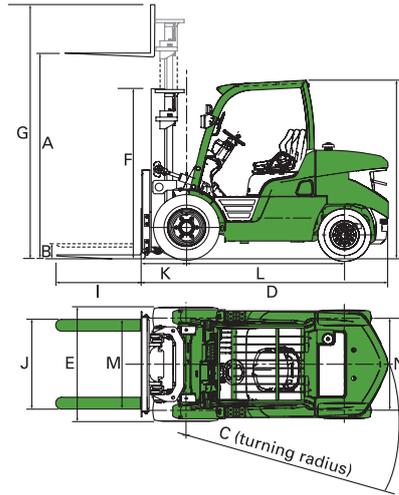
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

5t FD50N

Dimensions



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller

Baby Roller

Motor Grader

CHARACTERISTICS

1	Type of Truck				DIESEL ENGINE TRUCK
2	Model				FD50N
3	Loading Capacity		kg		5000
4	Load Center		mm		600

PERFORMANCE

5	Maximum Fork Height		mm	A	3360
6	Free Fork Height		mm	B	160
7	Speeds	Lifting	Loaded	mm/s	470
			Unloaded	mm/s	530
		Lowering	Loaded	mm/s	500
			Unloaded	mm/s	500
8	Tilt	Mast (Forward)	deg		6
9	Speeds	Travelling	Loaded	km/h	21.0
			Unloaded	km/h	22.0
10	Maximum Drawbar Pull	stationary on slope	Loaded	N	37000
	Drawbar Pull	at 1.6km/h	Loaded	N	26500
11	Maximum Gradeability	stationary on slope	Loaded	%	32.3
	Gradeability	at 1.6km/h	Loaded	%	22.6
12	Turning Radius		mm	C	2890
13	Practical Intersecting Aisle Width	Single	with 1220mm forks	mm	2470
14	Practical Aisle for Right Angle Stacking		with 1220mm forks	mm	4710

DIMENSIONS

15	Overall Length to fork Face		mm	D	3310
16	Width	with Standard Tires	mm	E	1460
		with Normal Duals (Optional)	mm		1780
		with Special Duals (Optional)	mm		1965
17	Height	with Lowered Mast	mm	F	2400
		with Extended Mast (with backrest)	mm	G	4590
		to top of Overhead Guard	mm	H	2250
		Forks (Thickness x Width x Length)	mm	I	60x150x1220
19	Forks Spread (Out-to-Out Minimum / Maximum)		mm	J	300-1190
20	Front Overhang (Center of Front Axle to Fork Face)		mm	K	602
21	Wheelbase		mm	L	2150
22	Tread Width	Front, standard tires	mm	M	1175
		Front, Normal duals (Optional)	mm		1310
		Front, special duals (Optional)	mm		1445
		Rear tires	mm	N	1180
23	Ground Clearance	at Lowest point outer mast	mm		150
		at Center of Wheelbase	mm		227
24	Tire Size	Size Front, standard			300-15-18PR
		Size Front, Normal dual (Optional)			7.50-16-12PR
		Size Front, special dual (Optional)			8.25-15-12PR
		Rear tires			7.00-12-14PR

WEIGHT

25	Machine Weight	Powershift (standard) Tires	kg	7300
		Powershift (optional dual) Tires	kg	7390
		Powershift (special dual) Tires	kg	7460

BRAKE

26	Service Brake Type			Hydraulic
27	Parking Brake Type			Hydraulic

POWERTRAIN

28	Engine	Model		S6S
		Max. Rated Power / rpm to DIN 70020	kW / rpm	57.5 / 2300
		Max. Rated Torque / rpm to DIN 70020	Nm / rpm	260 / 1700
		Displacement	cc	4996
		Fuel Tank Capacity	L	105
29	Transmission	Type		ATM (TORQUE CONVERTER)
	Number of Speed	Forward		2
		Backward		1
30	Relief of Pressure	For Attachments	Mpa	19.1

Telehandler

Manual PDF

<p>Telehandler 4t 17m TH540-170 (JCB)</p>	
<p>Telehandler 4t 7m TH541-70 (JCB)</p>	
<p>Telehandler 6t 8m TH560-80 (JCB)</p>	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

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Others

Truck Mounted Crane

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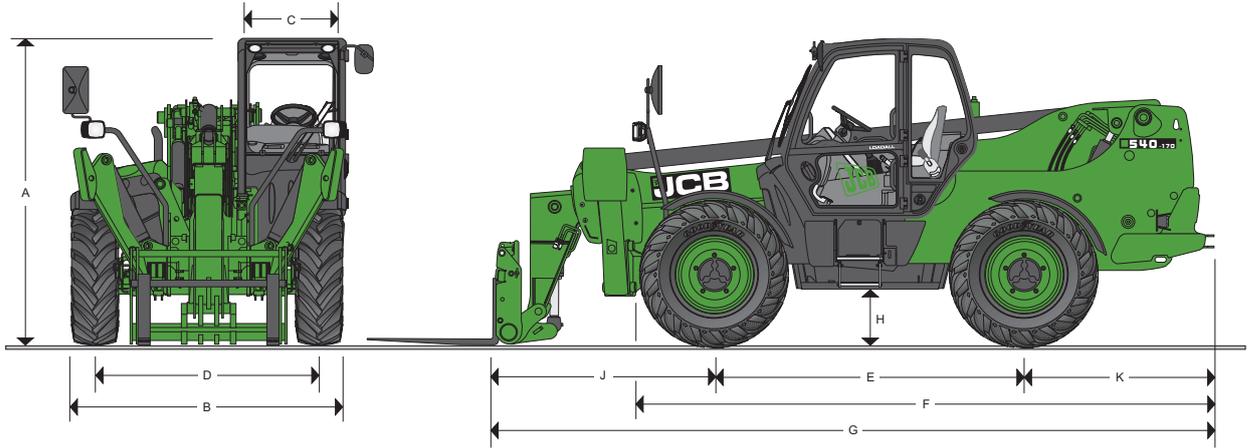
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

4t/17m TH540-170

Dimensions



Crawler Crane

- 55t**
7055
- 80t**
CKS800
- 90t**
CKS900
- 135t**
CKS1350
- 180t**
CKE1800
- 250t**
CKE2500-2

Rough Terrain Crane

- 25t**
GR-250N-2
- 30t**
GR-300EX
- 50t**
GR-500EXL
- 60t**
GR-600EX
- 80t**
GR-800EX

All Terrain Crane

- 160t**
ATF160G-5
- 200t**
LTM1200-5.1
- 220t**
ATF220G-5

Aerial Platform

- Boom Lift**
- Scissors Lift**

Others

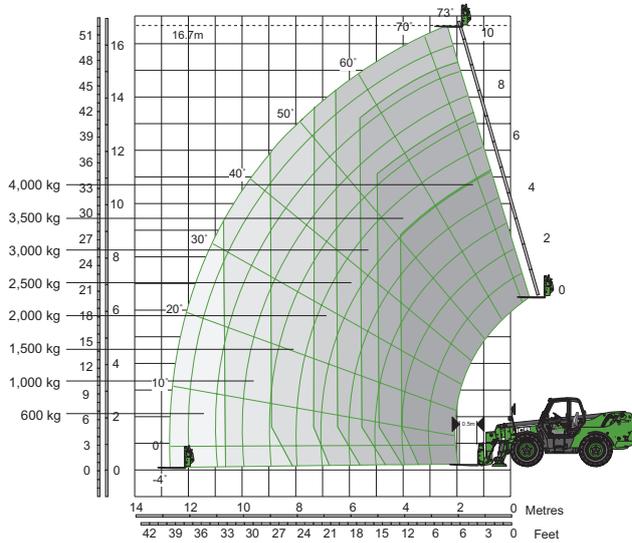
- Truck Mounted Crane**
- Forklift**
- Tele handler**
- Excavator**
- Bull Dozer**
- Vibro Roller**
- Baby Roller**
- Motor Grader**

	m (ft-in)
A Overall height	2.69 (8-10)
B Overall width (over tyres)*	2.44 (8-0)
C Inside width of cab	0.94 (3-1)
D Front track	1.90 (6-3)
E Wheelbase	2.75 (9-0)
F Overall length to front tyres	5.08 (16-8)
G Overall length to front carriage	6.36 (20-10)
H Ground clearance	0.40 (1-4)

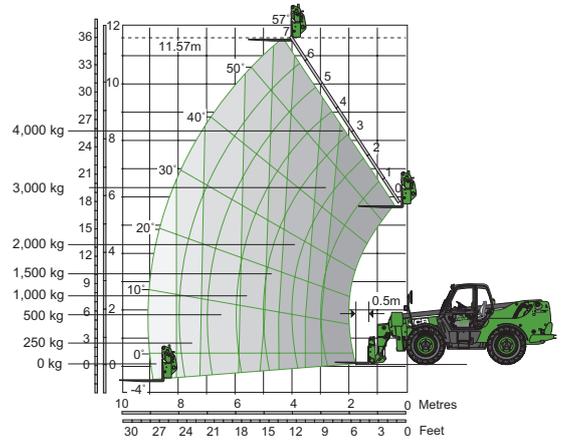
*Dependant upon tyre specified.

	m (ft-in)
J Front wheel centre to carriage	1.94 (6-4)
K Rear wheel centre to rear face	1.67 (5-5)
Overall width with stabilisers fully deployed	3.55 (11-8)
Outside turn radius (over tyres)	4.1 (13-5)
Carriage roll back angle	degrees 39
Carriage dump angle	degrees 8.8
Weight	kg (lb) 12060 (26586)
Tyres	15.5/80-24

LIFT PERFORMANCE – STABILISERS EXTENDED



LIFT PERFORMANCE – STABILISERS RETRACTED



Chassis Levelling (Sway)
With stabilisers retracted (Sway angle ±9°)

LIFT PERFORMANCE – STABILISERS EXTENDED

With stabilisers extended		
Maximum lift capacity	kg (lb)	4000 (8820)
Lift capacity to full height	kg (lb)	2500 (5510)
Lift capacity at full reach	kg (lb)	600 (1320)
Lift height	m (ft-in)	16.7 (54-9)
Reach at maximum lift height	m (ft-in)	2.05 (6-9)
Maximum forward reach	m (ft-in)	12.50 (41-0)
Reach with 1 tonne load	m (ft-in)	10.50 (34-5)
Placing Height	m (ft-in)	16.20 (53-2)

Complies with stability test EN 1459 Annex B.

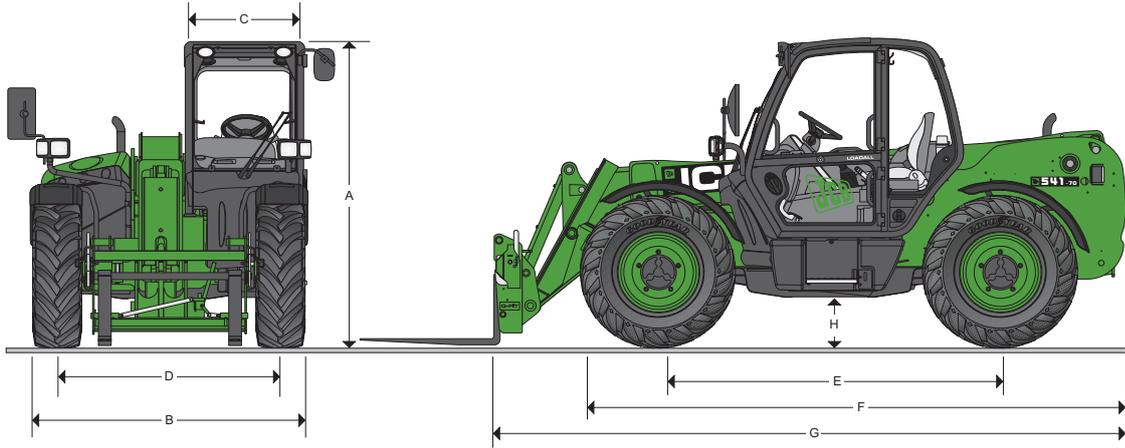
LIFT PERFORMANCE – STABILISERS RETRACTED

With Stabilisers Retracted		
Maximum lift capacity	kg (lb)	4000 (8820)
Lift capacity to maximum lift height	kg (lb)	1500 (3310)
Lift capacity at full reach	kg (lb)	0 (0)
Maximum lift height	m (ft-in)	11.57 (37-11)
Reach at maximum lift height	m (ft-in)	4.15 (13-7)
Maximum forward reach	m (ft-in)	9.04 (29-8)
Reach with 1 tonne load	m (ft-in)	5.76 (18-11)
Placing Height	m (ft-in)	10.90 (35-9)

Complies with stability test EN 1459 Annex B.

4t/7m TH541-70

Dimensions



	m (ft-in)		m (ft-in)
A Overall height	2.49 (8-2)	H Ground clearance	0.40 (1-4)
B Overall width (over tyres)*	2.23 (7-4)	Outside turn radius (over tyres)	3.7 (12-2)
C Inside width of cab	0.94 (3-1)	Carriage roll back angle	degrees 42.6
D Front track	1.81 (5-11)	Carriage dump angle	degrees 37.5
E Wheelbase	2.75 (9-0)	Weight	kg (lb) 7850 (17306)
F Overall length to front tyres	4.38 (14-4)	Tyres	15.5/80-24
G Overall length to front carriage	4.99 (16-4)		

*Dependant upon tyre specified.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

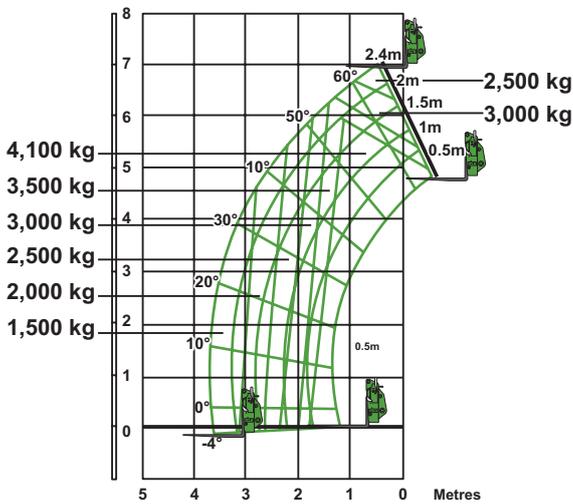
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

LIFT PERFORMANCE

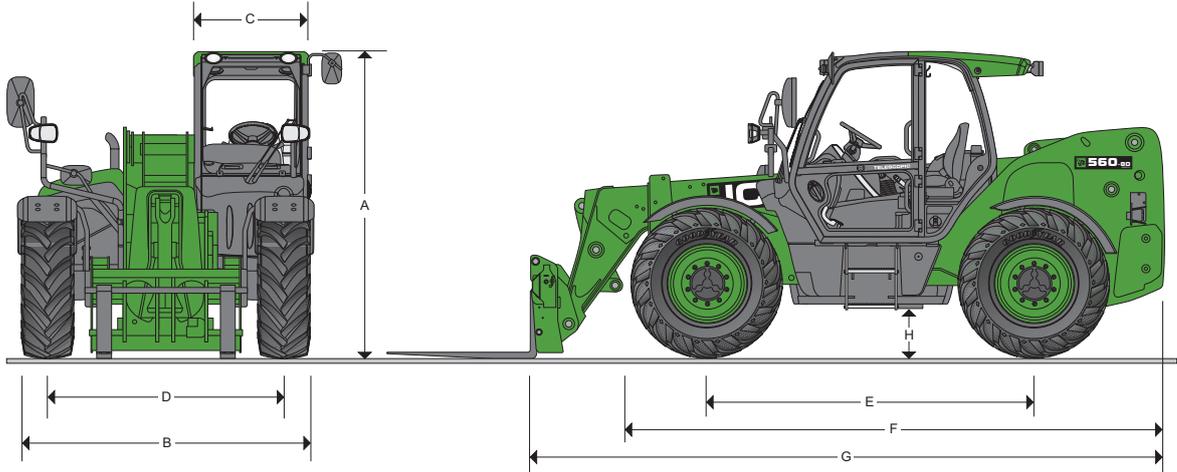


Maximum lift capacity	4100kg
Lift capacity to full height	2500kg
Lift capacity at full reach	1500kg
Lift height	7.0m
Reach at maximum lift height	2.94m
Maximum forward reach	3.7m
Reach with 1 tonne load	3.7m
Placing height	6.3m

Complies with stability test EN 1459 Annex B.

6t/8m TH560-80

Dimensions



A	Overall height	m	2.59
B	Overall width (over tyres)*	m	2.54
C	Inside width of cab	m	0.94
D	Front track	m	1.98
E	Wheelbase	m	2.75
F	Overall Length to front of tyres	m	4.42
G	Overall length to front of carriage	m	5.27
H	Ground clearance	m	0.4
	Outside turn radius (over tyres)	m	4.1
	Carriage rollback angle	degrees	47
	Carriage dump angle	degrees	33
	Weight**	kg	10750
	Tyres		500/70 R24

* Dependant upon tyre specified.

** Dependant upon tyre specified and machine specification.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

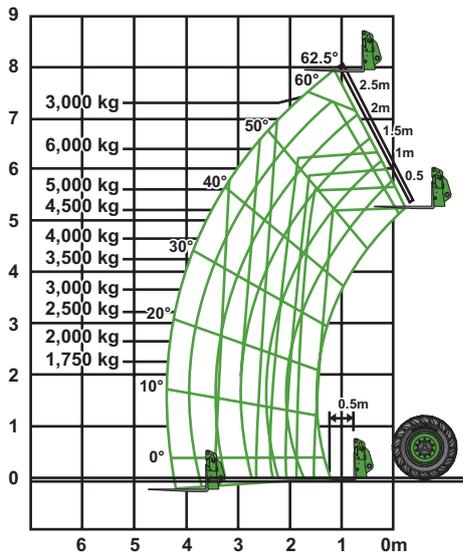
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

LIFT PERFORMANCE



Maximum lift capacity	6000kg
Lift capacity to full height	3000kg
Lift capacity at full reach	1750kg
Lift height	7.9m
Reach at maximum lift height	0.92m
Maximum forward reach	4.41m
Reach with 1 tonne load	4.41m
Placing height	6.64m

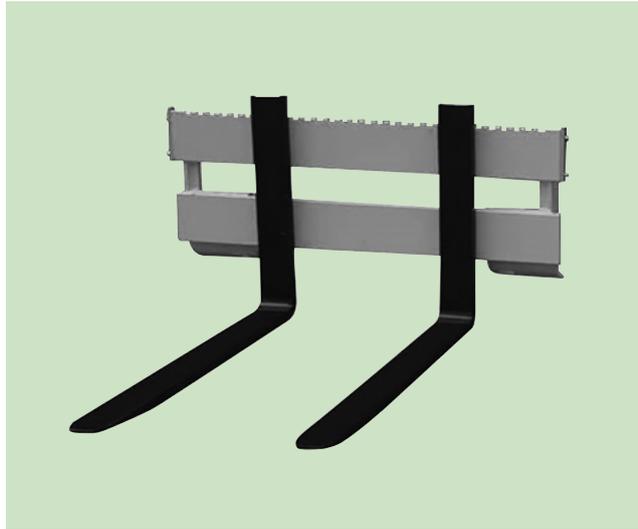
Complies with stability test EN 1459 Annex B.

Telehandler Attachment

Fork Frames with Floating Forks



Fork Frames / Industrial Forks



6-in-1 Shovels



Light Materials Re-handling Shovels



Crane Hooks



Sweeper Collectors



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Excavator

Manual PDF	
<p>Excavator PC200-8MO (KOMATSU)</p>	
<p>Excavator SK200 (KOBELCO)</p>	

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

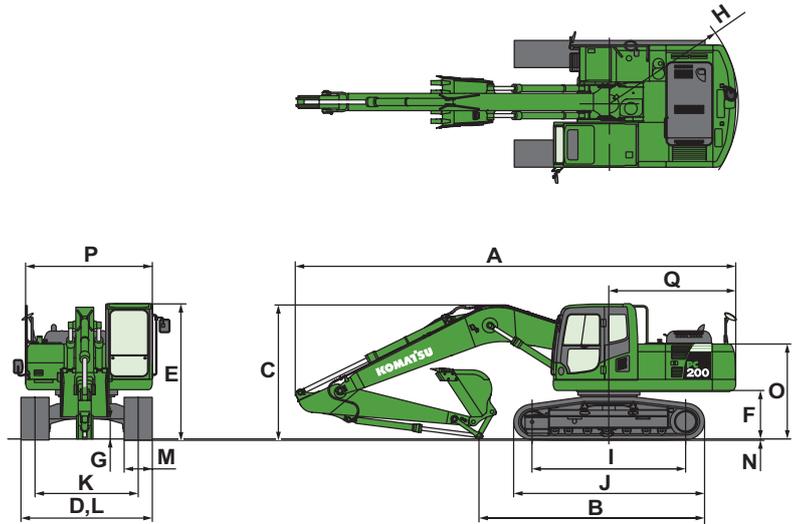
Vibro Roller
Baby Roller

Motor Grader

PC200-8MO Dimensions

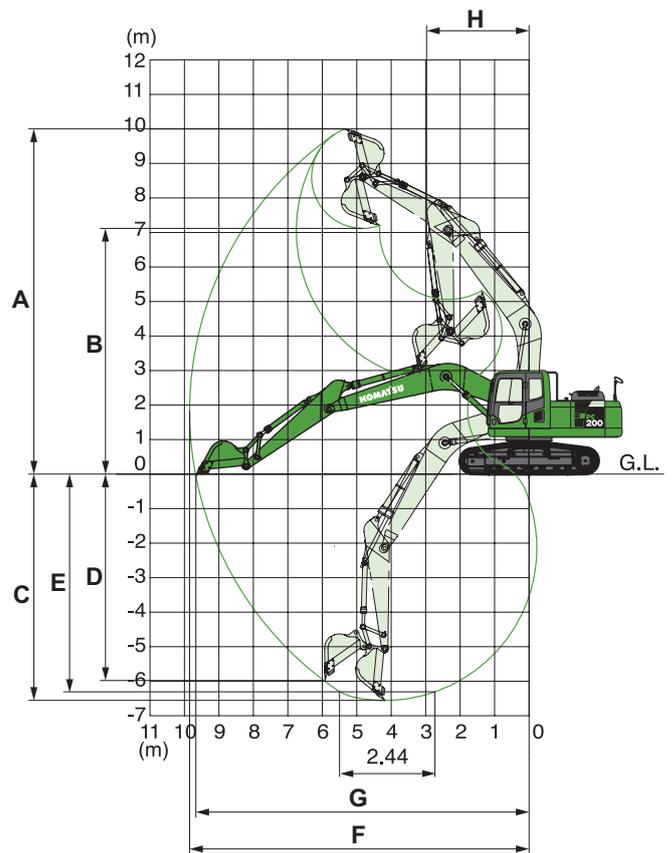
Arm Length		2410 mm
A	Overall length	9495 mm
B	Length on ground (Transport):PC200-8MO	5700 mm
C	Overall height (To top of boom)	3190 mm

		PC200-8MO
D	Overall width	2800 mm
E	Overall height (To top of cab)	3040 mm
F	Ground clearance, counterweight	1085 mm
G	Ground clearance (Minimum)	440 mm
H	Tail swing radius	2750 mm
I	Track length on ground	3275 mm
J	Track length	4070 mm
K	Track gauge	2200 mm
L	Width of crawler	2800 mm
M	Shoe width	600 mm
N	Grouser height	26 mm
O	Machine cab height	2095 mm
P	Machine cab width	2710 mm
Q	Distance, swing center to rear end	2710 mm



PC200-8MO Working Range

Arm Length		2410 mm
A	Max. digging height	9800 mm
B	Max. dumping height	6890 mm
C	Max. digging depth	6095 mm
D	Max. vertical wall digging depth	5430 mm
E	Max. digging depth of cut for 2440 mm level	5780 mm
F	Max. digging reach	9380 mm
G	Max. digging reach at ground level	9190 mm
H	Min. swing radius	3090 mm
SAE 1179 Rating	Bucket digging force at power max.	138 kN 14100 kg
	Arm crowd force at power max.	124 kN 12600 kg
ISO 6015 Rating	Bucket digging force at power max.	149 kN 15200 kg
	Arm crowd force at power max.	127 kN 13000 kg



Crawler Crane

55t
7055

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CKS900

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CKE1800

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CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

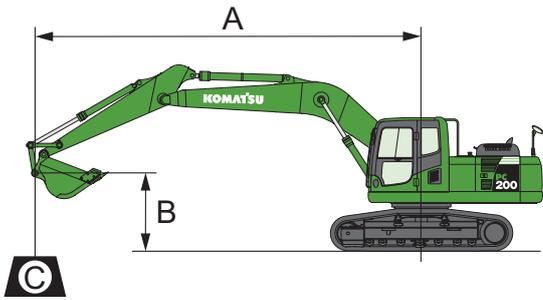
Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

PC200-8MO Lifting Capacity With Lifting Mode



- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- ⊗: Rating at maximum reach

- Conditions:
- 5700 mm one-piece boom
 - 0.8 m³ SAE J 296 heaped bucket
 - Shoe width:
 - PC200-8MO 600 mm triple grouser

PC200-8MO		Arm: 2410 mm		Bucket: 0.8 m ³ SAE J 296 heaped				Shoe: 600 mm triple grouser					
B	A	⊗ MAX		7.5 m		6.0 m		4.5 m		3.0 m		1.5 m	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
7.5 m		*4500 kg	4250 kg										
6.0 m		*4250 kg	3000 kg			*4850 kg	4050 kg						
4.5 m		3800 kg	2450 kg	4000 kg	2600 kg	*5450 kg	3900 kg	*6400 kg	6300 kg				
3.0 m		3450 kg	2150 kg	3900 kg	2500 kg	5650 kg	3650 kg	*8650 kg	5800 kg				
1.5 m		3300 kg	2050 kg	3750 kg	2350 kg	5450 kg	3450 kg	8650 kg	5300 kg				
0 m		3400 kg	2100 kg	3700 kg	2300 kg	5250 kg	3250 kg	8350 kg	5050 kg	*7000 kg	*7000 kg		
-1.5 m		3750 kg	2350 kg	3650 kg	2250 kg	5200 kg	3200 kg	8300 kg	5000 kg	*9300 kg	*9300 kg	*7700 kg	*7700 kg
-3.0 m		4650 kg	2900 kg			5250 kg	3250 kg	8400 kg	5100 kg	*14600 kg	10200 kg		
-4.5 m		*7150 kg	4500 kg					*8300 kg	5350 kg	*11650 kg	10400 kg		

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

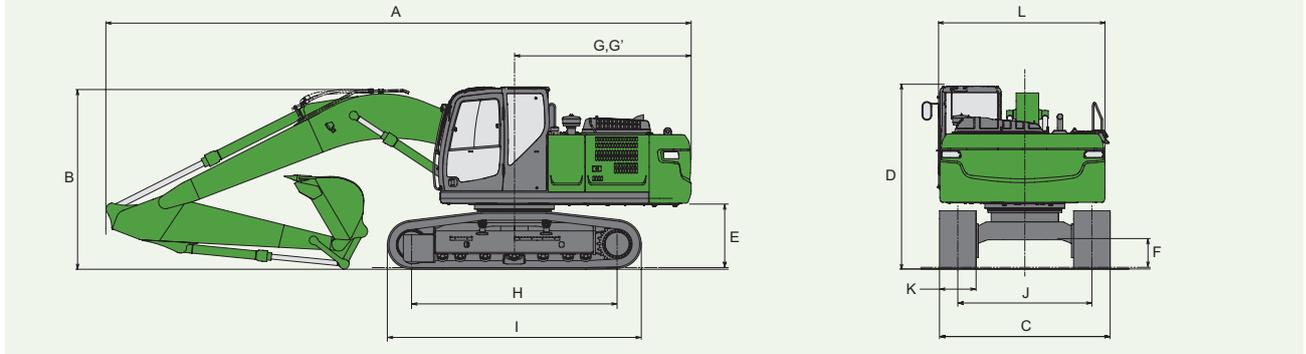
SK200 Dimensions

Arm length		Standard 2.94 m
A	Overall length	9,600
B	Overall height (to top of boom)	3,030
C	Overall width of crawler	2,800
D	Overall height (to top of cab)	3,060
E	Ground clearance of rear end*	1,060
F	Ground clearance*	450
G	Tail swing radius	2,910

Unit: mm

G'	Distance from center of swing to rear end	2,900
H	Tumbler distance	3,370
I	Overall length of crawler	4,170
J	Track gauge	2,200
K	Shoe width	600
L	Overall width of upperstructure	2,710

*Without including height of shoe



Operating Weight & Ground Pressure

In standard trim, with standard boom, 2.94 m arm, and 0.8 m³ ISO heaped bucket

Shaped		Triple grouser shoes (even height)
Shoe width	mm	600
Overall width of crawler	mm	2,800
Ground pressure	kPa	46
Operating weight	kg	20,700

SK200 Working Range

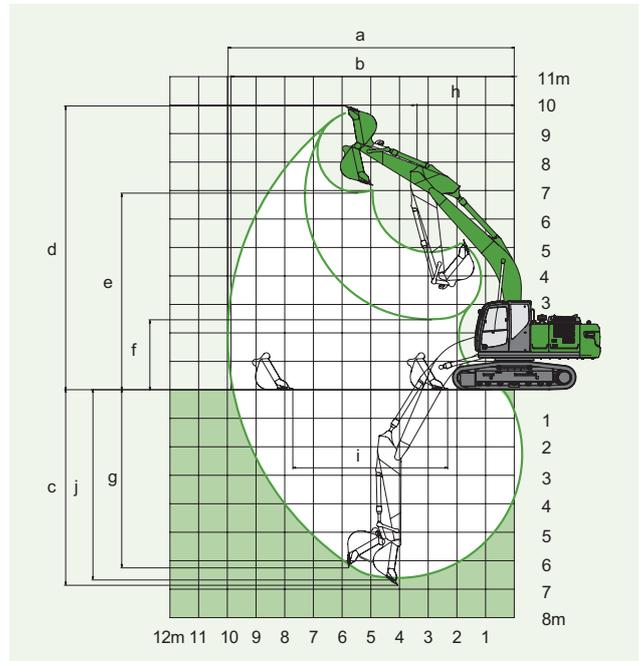
Unit: m

Boom		5.65 m
Arm		Standard 2.94 m
Range		
a-	Max. digging reach	9.9
b-	Max. digging reach at ground level	9.73
c-	Max. digging depth	6.7
d-	Max. digging height	9.72
e-	Max. dumping clearance	6.91
f-	Min. dumping clearance	2.43
g-	Max. vertical wall digging depth	6.1
h-	Min. swing radius	3.55
i-	Horizontal digging stroke at ground level	5.27
j-	Digging depth for 2.4 m (8') flat bottom	6.52
Bucket capacity ISO heaped m ³		0.93

Digging Force (ISO 6015) Unit: kN

Arm length		Standard 2.94 m
Bucket digging force		143 157*
Arm crowding force		102 112*

*Power Boost engaged.



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Bull Dozer

Manual PDF

**Bull Dozer
D6R2-XL
(CAT)**



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

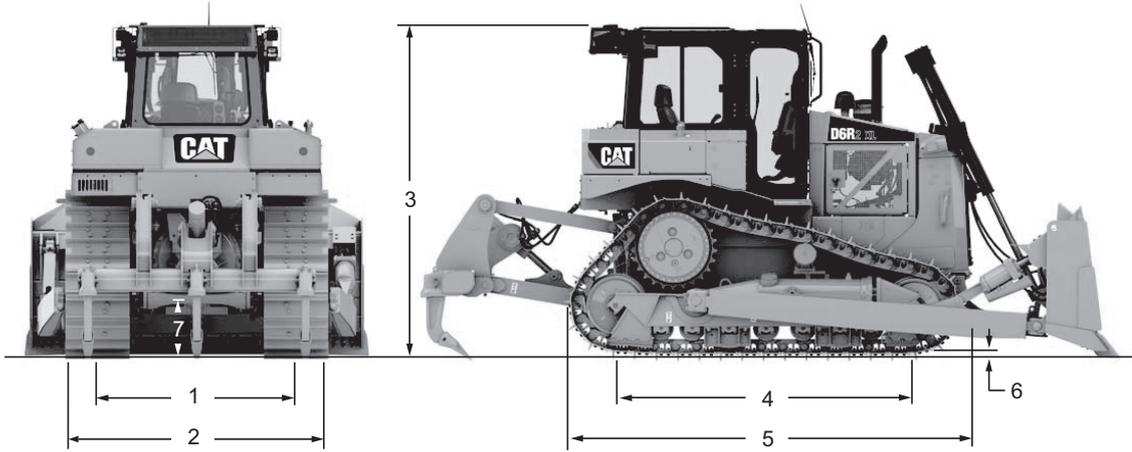
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

D6R2 XL

Dimensions



1 Tractor Gauge	1880 mm
2 Width of Tractor	
Over Trunnions	2640 mm
Without Trunnions (standard shoe width)	2440 mm
3 Machine Height, from Tip of Grouser	
Exhaust Stack	3115 mm
ROPS (cab or canopy)	3216 mm
Sweeps	3296 mm
4 Length of Track on Ground	2871 mm
5 Length of Basic Tractor	3860 mm
With following attachments, add:	
SU – Blade	1472 mm
A – Blade (straight)	1349 mm
A – Blade (angled 25 degrees)	2185 mm
Rear Drawbar	366 mm
Multi-Shank Ripper (tip at ground level)	1403 mm
6 Grouser Bar Height	65 mm
7 Ground Clearance	372 mm
8 Drawbar Height (grouser tip to center of clevis)	576 mm

Engine Model	Cat C9 ACERT
Emissions	Meets U.S. EPA Tier 2/ EU Stage II equivalent and Certified to China Nonroad II emission standards.
Engine Power (Maximum)	
SAE J1995	169 kW
ISO 14396	166 kW
Engine Speed	1800 rpm
Net Power (Rated)	
ISO 9249/SAE J1349	148 kW
80/1269/EEC	148 kW
Rated Engine Speed	2000 rpm
Net Power (Maximum)	
ISO 9249/SAE J1349	158 kW
80/1269/EEC	158 kW
Engine Speed	1800 rpm
Bore	112 mm
Stroke	149 mm
Displacement	8.8 L

Service Refill Capacities

Fuel Tank	424 L
Cooling System	59.4 L
Engine Crankcase	28 L
Power Train	146 L
Final Drives (each)	13.5 L
Pivot Shaft	5 L
Hydraulic Tank	51.5 L
Roller Frames (each)	24.6 L

Weights

Operating	
D6R2 XL (SU)	19914 kg
D6R2 XL (A)	19969 kg
Shipping	16820 kg

Undercarriage

Shoe Type	Moderate Service
Width of Shoe	560 mm
Grouser Height	65 mm
Shoes per Side	41
Track Rollers per Side	7
Track Pitch	203 mm
Oscillation at Front Idler	95 mm
Track Gauge	1880 mm
Length of Track on Ground	2871 mm
Ground Contact Area	3.22 m ²
Ground Pressure (ISO 16754)	
SU – Blade	60.7 kPa
A – Blade	60.9 kPa

- Operating weight includes lubricants, coolant, full fuel tank, standard track, ROPS cab, air conditioner, hydraulic controls, blade, drawbar and operator.
- Shipping weight includes lubricants, coolant, 10% fuel tank, standard track, ROPS cab, air conditioner and hydraulic controls.
- Net power advertised is the power available at the flywheel when engine is equipped with a fan at maximum speed, air cleaner, muffler, alternator.
- No deratings required up to 2286 m (7,500 ft) altitude. Automatic derating occurs after 2286 m (7,500 ft).

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Vibro Roller, Baby Roller

Manual PDF

**Vibro Roller
SV526D
(SAKAI)**



**Baby Roller
CR271
(SAKAI)**



**Crawler
Crane**

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

**Rough
Terrain
Crane**

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

**All Terrain
Crane**

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

**Aerial
Platform**

Boom Lift

Scissors
Lift

Others

Truck
Mounted
Crane

Forklift

Tele
handler

Excavator

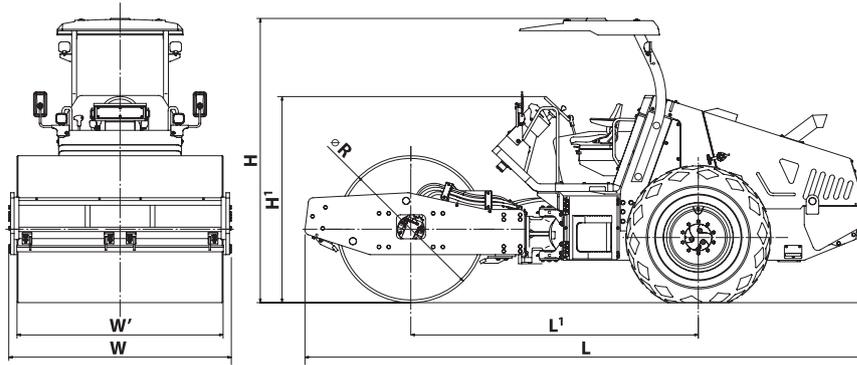
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Vibro Roller SV526D

Dimensions



TYPE	Vibratory Single Drum Roller	
MODEL	SV526D	
DRUM TYPE	Smooth Drum	
WEIGHTS	Max. operating weight with AWNING	kg (lbs.) 10,325 (22,765)
	Operating weight with AWNING	kg (lbs.) 10,235 (22,565)
	Load on front axle - operating weight with AWNING	kg (lbs.) 5,800 (12,790)
	Load on rear axle - operating weight with AWNING	kg (lbs.) 4,435 (9,780)
	Static Linear Pressure(drum) - operating weight with AWNING	kg/cm (lbs./in.) 27.2 (150)
PERFORMANCE	Centrifugal force (L / H)	kN (lbs.) [kgf] 150 (33,720) [15,300] / 255 (57,325) [26,000]
	Frequency @ low amplitude/high amplitude	Hz (vpm) 33.3 (2,000) / 28.8 (1,730)
	Amplitude (L / H)	mm (in) 0.87 (0.034) 2.05 (0.081)
	Number of speeds: Speed range (L / H)	km / h (mph) 2 speeds: 0-6 (0-3.7) / 0-10 (0-6.2)
	Gradeability	% (°) 63% (32°)
DIMENSIONS	Turning radius at compacted surface (inner / outer)	m (in) 3.4 (134) / 5.6 (221)
	Overall length L	mm (in) 5,810 (229)
	Overall width W	mm (in) 2,300 (91)
	Overall height (without AWNING) H¹	mm (in) 2,160 (85)
	Overall height (with AWNING) H	mm (in) 2,960 (117)
	Wheelbase L¹	mm (in) 2,970 (117)
	Compaction width W¹	mm (in) 2,130 (84)
	Drum width W¹ x Drum diameter R	mm (in) 2,130 x 1,530 (84 x 60)
	Shell thickness	mm (in) 25 (1.0)
	Tire size x Number of tires	23.1 - 26 - 8PR (OR) x 2
	Ground clearance	mm (in) 400 (16)
Curb clearance	mm (in) 500 (20)	
Side clearance	mm (in) 85 (3)	
ENGINE	Make & Model	Isuzu "4BG1T" (EPA-Tier 2: equivalent)
	Type	Water-cooled, 4-cycle, 4-cylinder, overhead valve, direct injection type diesel engine with turbocharger
	Displacement	L (cu. in.) 4.329 (264.2)
	Rated output	kW (HP)/min ⁻¹ 83.3 (112) / 2,100
	Electric system - battery	V (V / Ah x Qty) 24 V (12 V / 80 Ah, 655 CCA x 2 pcs.)
Electric system - alternator	V/A 24 V / 50 A	
DRIVE SYSTEM	Power transmission type	Hydrostatic transmission
	Drive wheels	Drum and tires
VIBRATION SYSTEM	Power transmission type	Hydrostatic transmission
	Number of amplitudes	2
BRAKE SYSTEM	Vibrator type	Single eccentric shaft type
	Service brake (primary brake)	Hydrostatic, dynamic brake (FNR lever)
	Parking brake (secondary brake)	Spring applied, hydraulically released type multi-disc brake (Brake button)
STEERING SYSTEM	Emergency brake	Hydrostatic + Spring applied, hydraulically released type multi-disc brake (Brake pedal)
	Type	Hydraulic type (articulated)
FLUID CAPACITY	Articulation / Oscillation angle	± 37° / ± 9°
	Fuel tank	L (gal.) 215 (56.8)
	Hydraulic oil tank	L (gal.) 50 (13.2)

- Specified figures have a tolerance of ±5%.
- All specifications may be changed without notice.
- Specified figures are in SI Units, followed by their equivalent English units of measurement in ().
- Max. operating weight : Fuel=100%, Water=100%, Operator=75 kg
- Operating weight : Fuel=50%, Water=50%, Operator=75 kg
- The photos may contain optional equipment and/or attachment.

* Using low quality fuel may cause engine failure.

Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

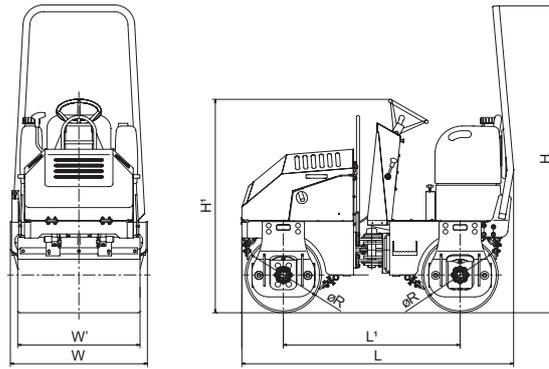
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Baby Roller CR271

Dimensions



TYPE		Vibratory Tandem Roller		
MODEL		CR271		
CHASSIS MODEL		4CR2		
WEIGHTS	Max. Operating weight with ROPS	kg (lbs)	1,560 (3,440)	
	Operating weight with ROPS	kg (lbs)	1,470 (3,245)	
	Load on front axle - operating weight with ROPS	kg (lbs)	650 (1,435)	
	Load on rear axle - operating weight with ROPS	kg (lbs)	820 (1,810)	
PERFORMANCE	Centrifugal force	kN (lbs)	13.2 (2,965)	
	Frequency	Hz (vpm)	66.7 (4,000)	
	Amplitude	mm (in)	0.35 (0.014)	
	Dynamic linear pressure for front drum - operating weight with ROPS	N/cm (lbs/in)	218 (120)	
	Static linear pressure for rear drum - operating weight with ROPS	N/cm (lbs/in)	90 (50)	
	Number of speed shifts		1	
	Speed range	km/h (mph)	0-7.5 (0-4.7)	
	Gradeability	% (°)	25 (14)	
	Turning radius compacted surface (inside / outside)	m (in)	2.0 (79) / 2.9 (115)	
	DIMENSIONS	Overall length L	mm (in)	2,000 (79)
Overall width W		mm (in)	1,010 (40)	
Overall height(without ROPS)H ¹		mm (in)	1,580 (62)	
Overall height(with ROPS)H		mm (in)	2,440 (96)	
Wheelbase L ¹		mm (in)	1,300 (51)	
Compaction width W'		mm (in)	900 (35)	
Drum width W' / Drum diameter R		mm (in)	900/ 560 (35/ 22)	
Shell thickness		mm (in)	13.5 (0.5)	
Ground clearance		mm (in)	280 (11)	
Curb clearance		mm (in)	325 (13)	
Side clearance		mm (in)	55 (2)	
ENGINE		Make	HONDA	
		Model	GX630 (EPA Phase3, China Stage I)	
		Type	Gasoline, Air-cooled, 4-cycle, 2-cylinder V-type	
	Displacement	L (cu.in)	0.688 (42.0)	
	Rated output	kW(HP)/min ⁻¹	12.0 (16) / 3,600	
	Electric system battery	V(V/Ah×Qty)	12V (12V / 36 × 1)	
	Electric system alternator	V/A	12V / 17A	
DRIVE SYSTEM	Power transmission type	Hydrostatic		
	Drive wheel	All wheel		
VIBRATION SYSTEM	Power transmission type	Hydraulic		
	Number of amplitude	1		
BRAKE SYSTEM	Vibrator type	Single eccentric shaft		
	Service brake	Dynamic braking through hydrostatic drive system / FNR lever		
	Secondary brake (Emergency brake)	N/A		
STEERING SYSTEM	Parking brake	Mechanical, Disc type / Parking brake lever		
	Power transmission type	Hydraulic		
FLUID CAPACITY	Articulation / Oscillation angle	± (°)	30 / 0	
	Fuel tank	L (gal)	30 (7.9)	
	Hydraulic oil tank	L (gal)	30 (7.9)	
	Water sprinkler tank	L (gal)	150 (39.6)	

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- Operating weight : Fuel=50%, Water=50%, Operator=75 kg
- The photos may contain optional equipment and/or attachment.

Crawler Crane

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CKS900

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250t
CKE2500-2

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25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

160t
ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

Motor Grader

Manual PDF

**Motor Grader
120K2
(CAT)**



Crawler Crane

55t
7055

80t
CKS800

90t
CKS900

135t
CKS1350

180t
CKE1800

250t
CKE2500-2

Rough Terrain Crane

25t
GR-250N-2

30t
GR-300EX

50t
GR-500EXL

60t
GR-600EX

80t
GR-800EX

All Terrain Crane

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ATF160G-5

200t
LTM1200-5.1

220t
ATF220G-5

Aerial Platform

Boom Lift

Scissors Lift

Others

Truck Mounted Crane

Forklift

Tele handler

Excavator

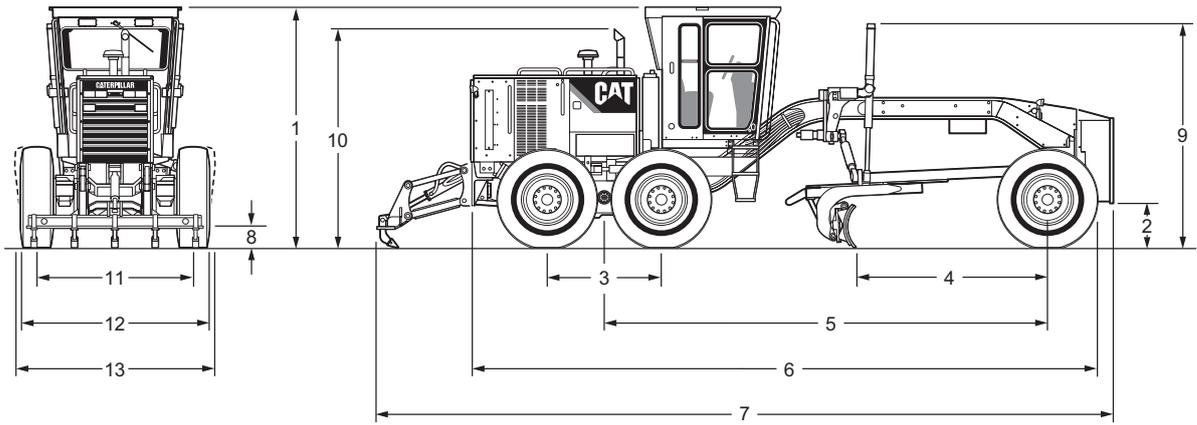
Bull Dozer

Vibro Roller
Baby Roller

Motor Grader

120K2

Dimensions



Crawler Crane

- 55t
7055
- 80t
CKS800
- 90t
CKS900
- 135t
CKS1350
- 180t
CKE1800
- 250t
CKE2500-2

Rough Terrain Crane

- 25t
GR-250N-2
- 30t
GR-300EX
- 50t
GR-500EXL

- 60t
GR-600EX
- 80t
GR-800EX

All Terrain Crane

- 160t
ATF160G-5
- 200t
LTM1200-5.1
- 220t
ATF220G-5

Aerial Platform

- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
Baby Roller
- Motor Grader

	120K2
1 Height – ROPS Cab	3326mm
Height – Non-ROPS Cab	3321mm
Height – ROPS Canopy	3326mm
2 Ground Clearance – Center Front Axle	602mm
3 Length – Between Tandem Axles	1510mm
4 Length – Front Axle to Moldboard	2598mm
5 Length – Front Axle to Mid Tandem	5870mm
6 Length – Front Tire to Rear of Machine	8265mm
7 Length – Counterweight to Ripper	9769mm
8 Ground Clearance, Trans. Case	341mm
9 Height – Top of Cylinders	2885mm
10 Height to Exhaust Stack	2865mm
11 Width – Tire Center Lines	2056mm
12 Width – Outside Rear Tires	2439mm
13 Width – Outside Front Tires	2449mm

Company Profile

Company Name	PT. Berlian Amal Perkasa (BAP)
Business Contents	Construction service including equipment rental with operator
Capital	USD 17,430,000 / May,2014 (Start biz from Dec, 2014)

Mitsubishi Corporation (47%, Japan) , Nikken Corporation (20%, Japan), ^{**100% subsidiary of Mitsubishi Corporation}
 PT.Kawan Lama Sejahtera,PT.Guna Teguh Sejati

Shareholders



- Name:Mitsubishi Corporation
- Established:July 1954
- Capital:30,381 bil IDR(204,447 million JPY)
- Employee:
 - Parent Company:6,016
 - Parent Company and all of its consolidated subsidiaries:79,994
- Consolidated Subsidiaries and Affiliates:1,525



- Name:NIKKEN CORPORATION
- Established:July 1967
- Capital:182 bil IDR(1,225 million JPY)
- Employee: 3,072
- Core Services: Rental of civil engineering and construction related products





- Name:PT.Kawan Lama Sejahtera
- Established:1955
- Employee:
 - PT. Kawan Lama Sejahtera:1,400
 - Kawan Lama Group:10,000
- Brand:Kawan Lama KRIS BOW ACE informa



- Name:PT. GUNA TEGUH SEJATI
- Established:June 1994
- Employee:more than 1,200
- Core Services:Heavy Lifting & Haulage, Mechanical Work, Steel Structure Work, Maintenance and Piping Work

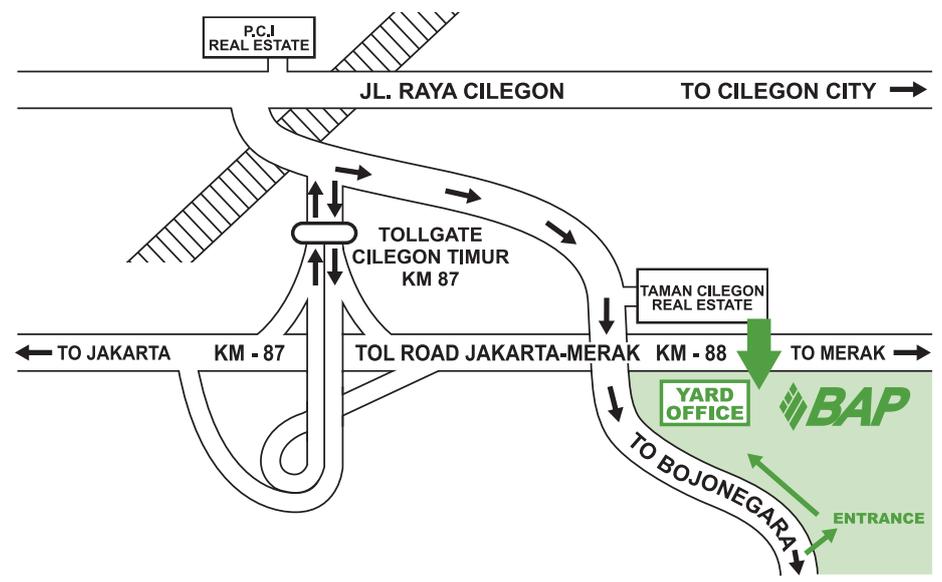
Head Office

Address:
 Sovereign Plaza 16F, Jl. TB . Simatupang Kav 36,
 Cilandak, Jakarta Selatan, 12430
 TEL:+62-21-2940-0320 FAX:+62-21-2940-0321



Machine Yard

Address:
 Jl.Raya Bojonegara RT01/RW04 Desa Kedaleman
 Kec. Cibeber, Kotamadya Cilegon, Banten
 TEL: +62-254-849-4882



Machine Yard(Temporary)

Greenland International Industrial City (GIIC), Cikarang,
 Jawa Barat

- Crawler Crane**
- 55t 7055
- 80t CKS800
- 90t CKS900
- 135t CKS1350
- 180t CKE1800
- 250t CKE2500-2

- Rough Terrain Crane**
- 25t GR-250N-2
- 30t GR-300EX
- 50t GR-500EXL

- 60t GR-600EX
- 80t GR-800EX

- All Terrain Crane**
- 160t ATF160G-5
- 200t LTM1200-5.1

- 220t ATF220G-5

- Aerial Platform**
- Boom Lift
- Scissors Lift

Others

- Truck Mounted Crane
- Forklift
- Tele handler
- Excavator
- Bull Dozer
- Vibro Roller
- Baby Roller
- Motor Grader



PLANT

ROAD

PORT

FACTORY

MINING

BUILDING

PETRO-
CHEMICAL

OTHER
KINDS OF
WORK

ONE STOP CONSTRUCTION EQUIPMENT SOLUTION



