

Grove YB7725

Product Guide



Features

- 22 t (25 USt) capacity
- 21,6 m (71 ft) four-section full power boom
- 13,6 t (15 USt) deck carrying capacity
- Tilt steering wheel
- · Load sensing piston hydraulic pump
- Proportional hydraulic controls

Features



The reach and capacity to get the job done

A 5,1 m (17 ft) swingaway extension added to the 21,6 m (71 ft) main boom provides an impressive 28,9 m (95 ft) tip height with a capacity of 2268 kg (5000 lb). A galvanized down-haul ball is included with the extension.



The "new" split door design, offered with the optional enclosed cab, allows for the top half to be left open while keeping the bottom half closed for safety.





Hook block

A galvanized coated hook block is provided as standard to help eliminate rusting of this important crane component.



Operator cab

Hydraulic proportional joystick controls, automotive dash layout, tilt steering wheel, and suspension seat enhances operator comfort and ease of use.

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Specifications

Superstructure



Boom

7,21 m - 21,6 m (23 ft 8 in - 71 ft) full power main boom. Four-section boom with three (3) powered sections.

Maximum tip height: 24,0 m (79 ft).



*Offsettable swingaway extension

5,1~m~(17~ft) offsettable swingaway extension. Offsets $0^{\circ},15^{\circ}$, and 30° via pivoting boom nose. Stows alongside base boom section.

Maximum tip height: 28,9 m (95 ft).



Boom nose

Two nickel plated steel sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve type boom nose with four-position (0°, +30°, +60°, and + 80°) pivoting to minimize head height requirements. Lowers head height by 0,6 m (2 ft).



Boom elevation

Two double acting hydraulic cylinders with integral holding valves provides elevation from -0° to +80°.



Anti-two block device

Standard anti-two block device, which, when activated, provides an audible warning to the operator and "locks-out" all functions whose movement can cause two-blocking.



Load indicator (LSI)

A simple effective and easy to use load indicating system used in conjunction with the anti-two block system to assist the operator in efficient operation of the unit within the limits of the load chart. The display panel displays the hook load and cuts-out the telescope and boom lift down function when a load limit is exceeded. The warning is by a flashing light on the display panel. In conjunction with the load display panel (receiver) there is a wireless transmitter and load sensing pin attached to the boom head that transmits the hook load to the display panel.

(wireless system)



*Rated Capacity Limiter (RCL)

Similar to the Load Indicator System, the Rated Capacity Limiter uses a similar display panel (receiver) with the addition of displaying boom angle and boom length read-outs on the panel.

(wireless system)



*Load Moment Indicator (LMI)

"Graphics Display" of boom angle, boom length, boom radius, capacity, and allows for operator input to set the limit parameters based on the load chart. Displays color coded light bar and audible alarm with function cut-out if load exceeds the load chart parameters.

(hardwired system)



Swing

Ball bearing swing circle with 360° continuous rotation. Hydraulic motor driven pinion with brake. Maximum speed: 2.5 rpm



Hydraulic system

One pressure compensated variable displacement axial piston pump with load sensing combined with two (2) gear pumps.

Maximum output of: 238 LPM (79 GPM).

Maximum operating pressure: 248 bars (3600 psi).

Six section valve bank, chassis mounted, operated via dash mounted, pilot pressure hydraulic joysticks. 227 L (60 gal) hydraulic reservoir with sight level gauge and steel side plating to guard against side impacts.

10 micron return line filter with full flow by-pass protection and service indicator.

Specifications

Superstructure continued



Hoist specifications

Piston motor driven with automatic spring applied / hydraulically released wet brake.

Maximum hoist pull (first layer): 6804 kg (15,000 lb)

Maximum permissible single line pull: 5670 kg (12,500 lb) (3.5:1 design factor)

Maximum single line speed: 61 m/min (200 fpm)

Rope construction: 6X19 XIPS/IWRC

Rope diameter: 16 mm (5/8 in)

Rope length:

Main hoist: 119 m (390 ft)

Maximum rope stowage:

Main hoist: 151 m (495 ft)

Carrier



Chassis

High strength alloy frame constructed with integral outrigger housings; front and rear lifting, tie-down, and towing lugs. 60 ft² carrydeck size with 13 608 kg (30,000 lb) deck only carrying capacity. Deck coated with anti-skid treatment.



Outriggers

Two-stage hydraulic telescoping beam with vertical jack at the four corners provides extended and down and retracted and down lifting capacities. Integral holding valves on both beam and jack cylinders.

Outrigger pad size:

29,2 cm x 29,2 cm (11.5 in x 11.5 in) Maximum outrigger pad load: 20 321 kg (44,800 lb) / 339 p.s.i.



Outrigger controls

Independent outrigger control rocker switches for beam or jack selection with separate extend/retract rocker switch. 360° bubble level located inside cab.



Standard engine (Tier III)

Cummins QSB 4.5L, four cylinders / turbo-charged diesel rated at 974 kW (130 bhp) (Gross) at 2500 rpm. Standard 110V engine block heater and cold weather "ether" assist system. Engine hour meter located inside operators compartment.

Maximum torque: 370 N-m (273 ft lb) at 2500 rpm.



Fuel tank capacity

189 L (50 gal)



Transmission

Powershift with four speeds forward and reverse. Stalk mounted direction shifter with rotary gear selection.



Operators control station

Frame mounted, open air style control station with cab shell includes all crane functions, driving controls, and overhead safety glass. Other standard equipment includes a suspension seat with seat belt, hourmeter, sight level bubble, and 2.5lb (1.1kg) fire extinguisher. The dash panel includes a multi-cluster gauge showing fuel, water temperature, oil pressure, and battery voltage. An engine monitoring indicator strip shows engine warning, stop engine, transmission low pressure, transmission high temperature, and low brake system pressure. The load indicator receiver is mounted to the top of the dash panel.



*Operators control station enclosed

Includes the standard cab shell with the addition of front, rear, and right side glass, a split (2 piece) hinged door with sliding glass, front windshield wiper and washer, hot water heater and defroster with fan and cab dome light are included.

Specifications

Carrier continued



Electrical system

Two 12V maintenance-free batteries, 820CCA at 0°. 63 amp alternator.



Drive

2 wheel (rear drive) or 4 wheel selection, front and rear axle drive with planetary hubs and limited slip differential.



Steer

Standard three steering modes.

Front two wheel, four-wheel coordinated, and four-wheel crab steer with electronic self alignment, three-position rocker selector on dash panel.

Outside turning radius:

Two-wheel steer: 7,32 m (24 ft) Four-wheel steer: 4,04 m (13 ft 3 in)



Suspension/axles

Front: Drive/steer with differential and planetary reduction hubs, axle is rigid mounted to frame. **Rear:** Drive/steer with differential and planetary reduction hubs, axle is pivot mounted to frame allows up to 3.5° of oscillation.



Oscillation lockouts

Manual switch to engage and disengage the rear axle lockouts. Engage when lifting on rubber and in crab steer mode, Disengage to allow oscillation when traveling over rough terrain.



Brakes

Hydraulic actuated internal wet-disc service brake acting on all four wheels. Dash mounted toggle switch with light for activating or release of the dry disc parking brake mounted on the transmission output yoke .



Tires

Standard: 17.5 x 25 Bias **Optional:** 17.5R25 radials



Lights

Full lighting including turn indicators, head, tail, brake and hazard warning lights recessed mounted.



Maximum speed

31,3 km/h (19.5 mph)



Gradeability (theoretical)

63%..... (at engine stall) NO LOAD 38%.....(at engine stall) with 13 608 kg (30,000 lb) DECK LOAD

Gross vehicle weight (G.V.W.)

Open cab: 19 786 kg (43,620 lb) **Closed cab:** 20 285 kg (44,720 lb)

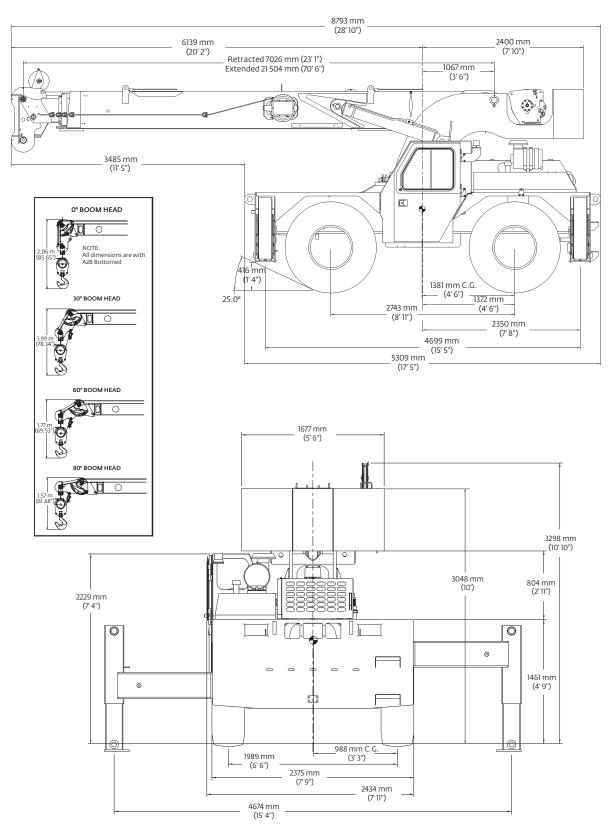
Miscellaneous standard equipment

22 t (25 USt) Two sheave "galvanize coated" hookblock, with "Quick Reeve".
Back-up motion alarm
Outrigger motion alarm
Dual rear-view mirrors

*Optional equipment

- AUXILIARY LIGHTING: includes cab mounted amber flashing light, dual base boom mounted floodlights
- CONVENIENCE PACKAGE: includes front and rear pintle hitch and headlight/taillight grille covers
- ENCLOSED CAB PACKAGE: includes heater and defroster, cab dome light, all window glass, and two piece split door
- 5,2m (17 ft) fixed extension
- Air conditioner
- Catalytic convertor
- Hoist drum rotation indicator
- Wire rope 3rd wrap indicator with hoist function
- 3629 kg (8000 lb) below deck mounted tow winch
- Foam filled tires

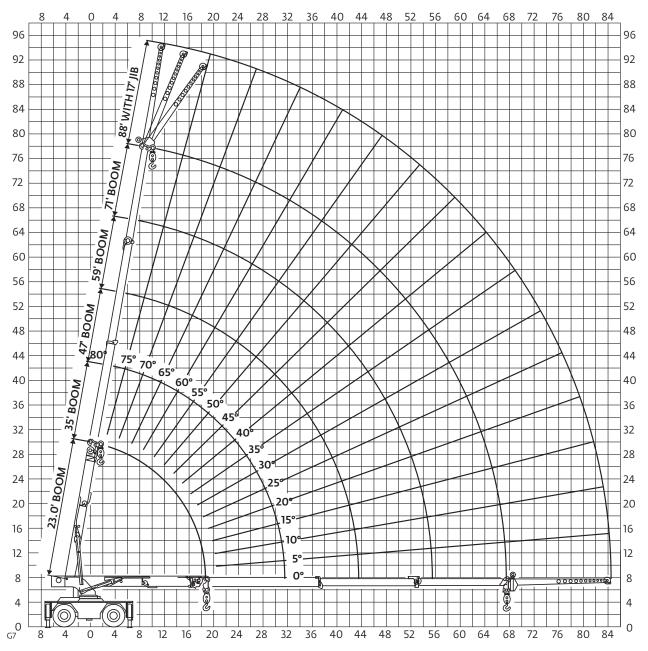
Dimensions



7

Height from the ground in feet

Range diagram



Operating radius in feet from axis of rotation

Load chart

	Ext			OM LOA						ear			MA	AIN BC			ATINGS and Dow		JTRIGGI	ERS	
	23.0 f	t Boom	35.0 f	t Boom	47.0 f	t Boom	59.0 f	t Boom	71.0 f	t Boom		23.0	t Boom	35.0	t Boom	47.0 f	t Boom	59.0	t Boom	71.0 f	t Boom
(ft)	Boom Angle (deg)	(lb)	Angle (deg)	(lb)	Angle (deg)	(lb)	Boom Angle (deg)	Rated Load (lb)	Boom Angle (deg)		Radius (ft)	(deg)	Load (lb)	Boom Angle (deg)	Load (lb)	Angle (deg)	(lb)	Boom Angle (deg)	Rated Load (lb)	Boom Angle (deg)	
8.5 10 12 14 16 18 19.5 22 24 26 28 30 31.5 34 36 38 40 42 43.5 46 648 50 50 50 50 50 50 50 50 50 50 50 50 50	64.2 59.8 53.6 46.8 38.8,7 0 - - - - - - - - - - - - - -	50,000 38,793 34,893 31,256 26,699 23,186 21,044	73.2 70.6 66.9 63.2 55.1 51.9 40.8 36 29 0 - - - - -	34,300 34,500 31,426 28,464 26,076 23,496 21,379 18,471 16,592 11,250 10,300	78.1 76.2 73.6 71 68.3 65.6 63.5 59.9 54 51 47.5 45 40 36 31 25 17.5 0	33,600 33,017 29,285 26,357 24,016 22,096 20,902 18,629 16,747 14,850 11,600 11,600 16,650 9350 8460 7000 6400	79.7 77.8 75.8 73.7 70.1 67.4 65 63 60.5 58.5 56.5 53.5 48.5 42.5 40.5 36.5 42.5 40.5 32.5 28 23	27,800 25,900 24,100 22,400 20,792 19,582 17,872 16,300 11,700 10,750 9480 8590 7150 6550 6000 5440 4680 4350 4040	78.7 77.1 75.4 74.2 72 70.3 68.5 66.7 65.2 63.9 61.5 59.6 57 55 48.5 48.5 44.5 44.4 41.5 38.5	18,200 16,750 15,500 14,650 13,400 12,500 11,750 9800 9400 8850 8400 7270 6680 66270 5680 4510 4860 44510 4190	8.5 10 12 14 16 18 19.5 22 24 26 28 30 31.5 34 42 43.5 46 48 50 52 54	63.5 59 52.5 45.5 37 26 0 - - - - - - - - - - - - - - -	26,350 20,800 16,000 12,300 9850 8070 7090 - - - - - - - - - - - - - - - - - -	73 70.5 67 63 59.5 55.5 55.3 36 29 20 0 - - - - -	24,000 19,300 19,300 12,250 10,150 8370 7300 5900 5040 4330 3740 3250 2910	78 76 73.5 71 68.5 63.5 63.5 60 57 54 51 47.5 40 36 31 25 17.5 0	21,900 17,900 11,600 9710 8230 7330 6050 5170 4450 3340 2530 2200 1910 1660 1410 1230	79.5 77.5 75.5 75.5 70.6 67.6 63 60.5 58.5 56.5 53.5 48.5 42.5 40.5 36 32.5 28 23	16,650 13,350 11,000 9280 7910 7060 51900 5190 4520 3930 3410 3080 2590 2260 1700 1470 1310 1070 890 720 570 430	79 77 75.5 74 72 70 68.5 66.5 63.5 61 59 57 55 48.5 44.5 44.4 41.5	10,500 8870 7590 6810 5720 5000 4400 3880 3420 2640 2310 1750 1510 1150 1110 930 780 630 500
55.5	-	-	-	-	-	_	0	3820	36.5	3960	55.5	-	-	-	-	-	-	0	330	36.5	410
58 60		_	_	_	_	_	_	_	32.5 29	3620 3370	58 60	_	_	_	_	_	_	=	_	32.5	270
62		_	_	_	_	_	_	_	25	3130	62	_	_	_	_	_	_	_	_		
64	-	-	_	_	_	_	_	_	20	2920	64	_	_	_	-	_	_	-	-	_	_
66	-	-	-	-	-	_	-	-	13	2720	66	-	_	-	-	-	-	_	-	-	-
67	-	_	-	-	_	_	-	-	0	2620	67				_	_	_	_	-	-	- '

	ON RUBBER							
	Any Booi	m Length						
Radius (ft)	Front Rating (lb)	360° Rating (lb)						
6 8 10 12 14 16 18 20 22 24 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56 60 62 64 66 67	30,000 24,950 21,000 18,000 15,650 13,300 10,900 9460 8060 6960 6050 5300 4670 4130 3670 3260 2900 2590 2300 2280 2050 1840 1650 1480 1320 1220 1080 950 840 730 6220 570	21,000 17,900 15,000 13,000 13,000 10,000 7920 6410 5780 4880 4140 3520 2540 2160 1820 1530 1270 1040 830 720 610 500 390 280 						

MAIN BOOM

NOTES:

JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

SHADED AREAS ARE GOVERNED BY STRUCTURAL STRENGTH, DO NOT RELY ON TIPPING.

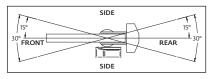
OPERATION OF THIS EQUIPMENT IN EXCESS OF RATING CHARTS AND DISREGARD OF INSTRUCTIONS IS DANGER-OUS AND VOIDS WARRANTY.

- 1) The rated loads are the maximum lift capacities as determined by operating radius, boom length and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- 2) Rated load columns for discrete boom lengths apply when actual boom length is within +/- 1.0 ft of discrete length. When boom length or radius or both are between points listed on capacity chart, the smallest load shown at either the next larger radius or boom length shall be used.
- 3) For operating radius not shown, use load rating of next larger radius.
- 4) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper training must all be taken into account by the operator.

RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (Ib)									
FROM FROM MAIN BOOM JIB									
MAIN BLOCK	475	N/A							
HOOK & BALL	100	100							
JIB STOWED 0 N/A									
JIB DEPLOYED	500	0							

MAXIMUM PERMISSIBLE SINGLE LINE PULL = 12,500 lb

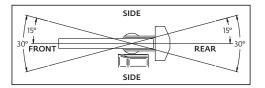
HOIST ROPE: 5/8 in diameter 6 x 19 XIPS IWRC BRIGHT Min. req'd breaking strength = 45,400 lb



- 5) The weights of all load handling devices such as hooks, hookblocks, slings, etc., except the hoist rope, shall be considered part of the load. See reduction chart.
- 6) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.
- 7) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (110 psi). When replacing tires, contact Manitowoc for proper specifications. Loads on rubber may be transported at a maximum seed of 2.5 mph on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front. For 360 ratings on rubber, rear axle oscillation locks must be in place. Do not use jib with crane on rubber.
- 8) The maximum combined total boom and deck load is 20,000 lb. The maximum deck load only is 30,000 lb.
- 9) Do not induce any external side loads to boom or jib.

Load chart

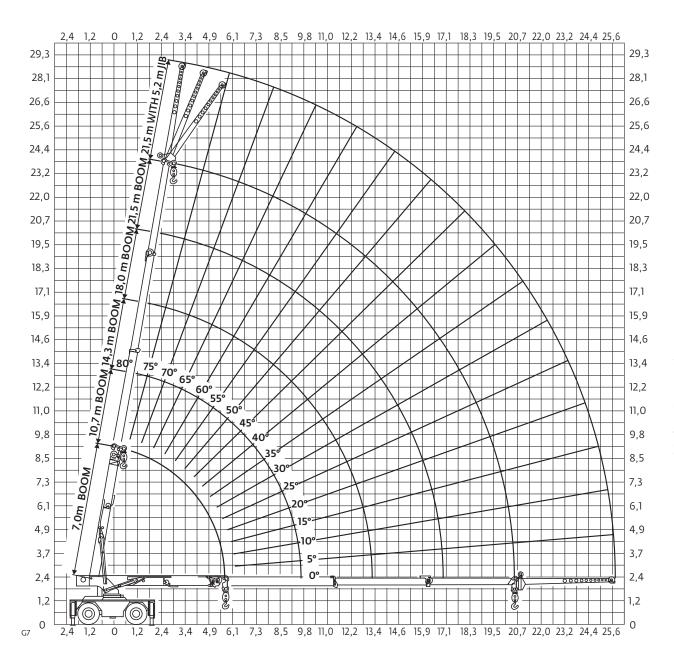
	17 ft JIB CAPACITY ON EXTENDED OUTRIGGERS (Ib)												
Main	Jib Offset Angle												
Boom	()°	1.	5°	30°								
Angle (deg)	To 55 ft Main Boom	To 71 ft Main Boom	To 55 ft Main Boom	To 71 ft Main Boom	Any Boom Length								
80	_	_	5000	5000	3500								
75	7500	_	4400	4400	3100								
70	6100		3900	3900	2800								
65	5000	4600	3500	3500	2550								
60	4300	3800	3150	3150	2350								
55	3800	3300	2850	2850	2200								
50	3400	2900	2600	2600	2100								
45	3050	2600	2400	2400	2000								
40	2800	2400	2250	2250	1950								
35	2600	2150	2150	2050	1900								
30	2400	1930	2080	1850	1830								
25	2300	1750	2050	1720	_								
20	2200	1600	2000	1590	-								
15	2100	1500	1950	1520	_								
10	2050	1460	_	_	-								
5	2020	1450	_	_	-								
0	2000	1440	_	_	_								



- 1) The rated loads are the maximum lift capacities as determined by operating radius, boom length and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
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- 3) For operating radius not shown, use load rating of next larger radius.
- 4) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper training must all be taken into account by the operator.
- 5) The weights of all load handling devices such as hooks, hookblocks, slings, etc., except the hoist rope, shall be considered part of the load. See reduction chart.
- 6) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.
- 7) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (110 psi). When replacing tires, contact Manitowoc for proper specifications. Loads on rubber may be transported at a maximum seed of 2.5 mph on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front. For 360° ratings on rubber, rear axle oscillation locks must be in place. Do not use jib with crane on rubber.
- 8) The maximum combined total boom and deck load is 20,000 lb. The maximum deck load only is 30,000 lb.
- 9) Do not induce any external side loads to boom or jib.

Height from the ground in meters

DIN/ISO range diagram



Operating radius in meters from axis of rotation

DIN/ISO load chart

	Ev			OM LO						025			MAIN	BOOM			NGS ON d Dowr		IGGERS		
	Extended and Down 360° or Retracted and Down Front/Rear 7,0 m Boom 10,7 m Boom 14,3 m Boom 18,0 m Boom 21,5 m Boom								7.0	D = = ===	10.7	Retrac 1 Boom				. D	21.5	. D			
	.,.												Boom			,	n Boom		Boom		1 Boom
D - 41.	Boom S Angle		Boom Angle	Rated Load	Boom Angle	Load	Boom Angle	Load	Angle	Rated Load	D - 41	Boom	Rated Load	Boom Angle	Rated Load	Boom Angle		Boom Angle	Rated Load	Boom Angle	Rated Load
(m)	(deg)	(kg)	(deg)	(kg)	(deg)	(kg)	(deg)	(kg)	(deg)	(kg)	Radius (m)	(deg)	(kg)	(deg)	(kg)	(deg)	(kg)	(deg)	(kg)	(deg)	(kg)
2,6	64.5	22 650	73,5	15 550	78.5	15 225					2,6	63.5	10 675	73	9495	78	8490				
3,0	60	17 575	71	15 650	76,5	14 975	80	12 600			3,0	59	8805	70,5	7955	76	7220	79,5	6580		
3,7	54	15 825	67	14 250	74	13 275	78	11 725			3,7	52,5	6625	67	6100	73,5	5640	77,5	5215		
4,3	47	14 175	63,5	12 900	71	11 950	76	10 925	79	8255	4,3	45,5	5390	63	5010	71	4680	75,5	4370	79	4095
4,9	39	12 100	59,5	11 825	68,5	10 875	74	10 150	77,5	7595	4,9	37	4430	59,5	4195	68,5	3950	73,5	3715	77	3505
5,5	29	10 500	55,5	10 650	66	10 000	72	9365	75,5	7030	5,5	26	3645	55,5	3570	65,5	3375	71,5	3190	75,5	3030
5,9	0	9545	52	9695	63,5	9070	70,5	8510	74,5	6645	5,9	0	3245	52	3225	63,5	3055	70	2900	74	2760
6,7	-	_	46	7905	60	7575	67,5	7155	72	6075	6,7	-	-	46,5	2665	60	2535	67,5	2415	72	2305
7,3	-	_	41	6785	57	6715	65	6365	70,5	5670	7,3	-	-	41,5	2295	57	2215	65	2115	70_	2025
7,9	_	_	36	5905	54	5965	63	5710	68,5	5330	7,9	-	_	36	1975	54	1945	63	1860	68,5	1785
8,5	_	_	29	5215	51_	5205	60,5	5155	67	4945	8,5	-	_	29	1710	.51_	1715	60,5	1640	66,5	1580
9,1	-	_	20	4640	47,5	4660	58,5	4625	65,5	4445	9,1	_	-	20	1490	47,5	1515	58,5	1450	65	1395
9,6	_	_	0	4255	45	4270	56,5	4240	64	4180	9,6	_	-	0	1320	45	1365	56,5	1310	63,5	1260
10,4	_	_	-	_	40	3725	53,5	3725	61,5	3695	10,4	-	_	- 1	-	40	1140	53,5	1110 980	61	1070 945
11,0	-	_	-	_	36	3380	51	3395	60	3375	11,0	_	_	- 1	-	36	995	51		59	830
11,6		_		_	31 25	3080 2815	48,5 45.5	3105 2840	57 55	3090 2845	11,6 12.2	_	_	_	_	31 25	865 755	48,5 45.5	865 760	57 55	730
12,2		_		_	17,5	2590	42,5	2605	53	2625	12,2		_	_	_	17,5	640	42,5	665	53	635
12,8 13,3		_		_	0 0	2440	40.5	2440	51,5	2465	13.3	_		_	_	0,3	560	40,5	595	51,5	570
14,0		_	_	_		2440	36	2210	48.5	2225	14.0	_	_		_	0	300	36	490	48.5	475
14,6	_	_	_	_	_	_	32,5	2040	46.5	2055	14.6	_	_	_	_	_	_	32,5	405	46.5	405
15,2	_	_	_	_	_	_	28	1890	44	1900	15.2	_	_	_	_	_	_	28	330	44	340
15.8	_	_	_	_	_	_	23	1750	41.5	1760	15.8	_	_	_	_	_	_	23	260	41.5	280
16,5	_	_	_	_	_	_	16	1600	38.5	1615	16.5	_	_	_	_	_	_	16	190	38.5	215
16,9	_	_	-	_	_	_	0	1515	36.5	1535	16.9	_	_	_	_	_	-	0	150	36.5	180
17.7	_	_	-	_	_	_	_	-	32,5	1395	17.7	_	_	_	_	_	-	_	-	32.5	115
18,3	_	_	_	_	-	_	-	_	29	1295	18,3	-	_	-	_	_	-	-	_	-	-
18,9	_	_	-	_	-	-	_	_	25	1210	18,9	-	_	_	_	_	-	-	_	_	-
19,5	-	_	-	_	-	_	_	-	20	1125	19,5	-	_	-	_	-	-	-	_	-	-
20,1	-	-	-	-	-	_	-	-	13	1045	20,1	-	_	-	_	-	-	-	_	-	-
20.4	_	_	-	_	-	_	-	_	0	1010	20.4	_	_	-	_	-	-	-	-	-	-

MAI	Ν	ВС	00	М
ON	R١	UΒ	BE	R

	Any Boor	n Length
Radius (m)	Front Rating (kg)	360° Rating (kg)
1,8 2,6 3,0 3,7 4,9 5,5 6,7 7,3 7,9,8 9,1 9,8 10,4 11,0 11,0 11,2 12,8 13,4 14,6 15,8 16,5 17,7 18,3	(kg) 13 600 11 300 9105 6525 5530 4435 3880 3425 3045 2710 2350 2050 1800 1550 1365 1205 1065 940 830 820 730 650 570 505 430 390 340	9525 6875 5040 4070 3445 2950 2545 2210 1930 1685 1480 1255 1055 855 705 575 460 265 230 190 190 190 190 190 190 190 190 190 19
18,3 18,9 19,5 20.1	290 240 195 155	

20,4 135

NOTES:

JIB CAPACITY IS LIMITED BY BOTH STRUCTURAL CAPACITY CHART AND MAIN CAPACITY CHART.

SHADED AREAS ARE GOVERNED BY STRUCTURAL STRENGTH, DO NOT RELY ON TIPPING.

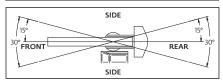
OPERATION OF THIS EQUIPMENT IN EXCESS OF RATING CHARTS AND DISREGARD OF INSTRUCTIONS IS DANGER-OUS AND VOIDS WARRANTY.

- 1) The rated loads are the maximum lift capacities as determined by operating radius, boom length and boom angle. The operating radius is the horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of vertical hoist line or tackle with load applied.
- 2) Rated load columns for discrete boom lengths apply when actual boom length is within +/- 0,3 m of discrete length. When boom length or radius or both are between points listed on capacity chart, the smallest load shown at either the next larger radius or boom length shall be used.
- 3) For operating radius not shown, use load rating of next larger radius.
- 4) The rated loads shown on outriggers do not exceed 85% of actual tipping. The rated loads shown on rubber do not exceed 75% of actual tipping. These ratings are based on freely suspended loads with the crane leveled, standing on a firm, uniform supporting surface. Practical working loads depend on supporting surface, operating radius and other factors affecting stability. Hazardous surroundings, climatic conditions, experience of personnel and proper training must all be taken into account by the operator.

RATING REDUCTIONS FOR LOAD HANDLING DEVICES INSTALLED (kg)									
FROM FROM JIB									
MAIN BLOCK	215	N/A							
HOOK & BALL	50	50							
JIB STOWED	0	N/A							
JIB DEPLOYED	230	0							

MAXIMUM PERMISSIBLE SINGLE LINE PULL = 5670 kg

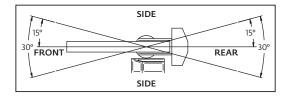
HOIST ROPE: 16 mm diameter 8 x 26 XIPS IWRC BRIGHT Min. req'd breaking strength = 258,9 kN



- 5) The weights of all load handling devices such as hooks, hookblocks, slings, etc., except the hoist rope, shall be considered part of the load. See reduction chart.
- 6) Ratings on outriggers are for either outriggers fully extended and down or fully retracted and down. Ratings for outriggers fully retracted and down will apply for any intermediate outrigger setting.
- 7) Ratings on rubber depend on tire capacity, condition of tires and proper inflation pressure (7.6 bar). When replacing tires, contact Manitowoc for proper specifications. Loads on rubber may be transported at a maximum seed of 4,0 km/h on a smooth, hard, level surface with boom retracted to the shortest length possible and centered over front. For 360° ratings on rubber, rear axle oscillation locks must be in place. Do not use jib with crane on rubber.
- 8) The maximum combined total boom and deck load is 9070 kg. The maximum deck load only is 13 610 kg.
- 9) Do not induce any external side loads to boom or jib.

DIN/ISO load chart

5,2 m	5,2 m JIB CAPACITY ON EXTENDED OUTRIGGERS (kg) Jib Offset Angle											
Main Boom	(۵۱ر °°	Offset And	30°								
Angle (deg)	To 18,0 m Main Boom		To 18,0 m Main Boom		Any Boom Length							
80 75 70 65 60 55	- 3400 2770 2270 1950 1720 1540	- 2090 1720 1500 1320	2270 2000 1770 1590 1430 1290 1180	2270 2000 1770 1590 1430 1290 1180	1590 1410 1270 1160 1070 1000 0950							
45 40 35 30 25 20	1380 1270 1180 1090 1040 1000	1180 1090 0980 0880 0790	1090 1020 0980 0940 0930 0910	1090 1020 0930 0840 0780 0720	0910 0880 0860 0830 - -							
15 10 5 0	0950 0930 0920 0910	0680 0660 0660 0650	0880 - - -	0690 - - -	_ _ _ _							

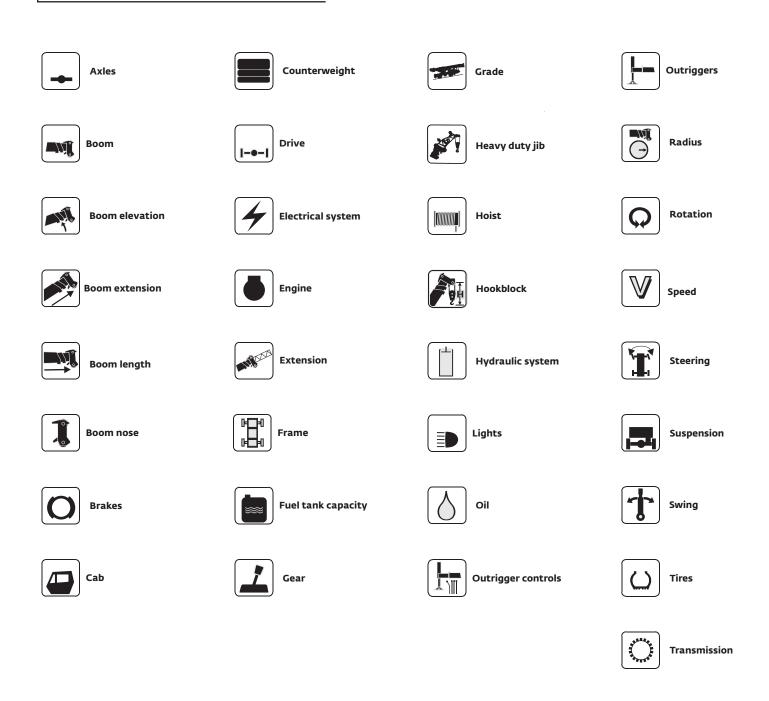


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- 9) Do not induce any external side loads to boom or jib.

Symbols glossary



Notes

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