GUAY

GROVE® by Manitowoc



GMK6350L-1

Product Guide

ASME B30.5
Imperial 85%

Features

- 300 t (350 USt) capacity class
- 15,6 m - 80 m (51 ft - 263 ft) seven-section full power MEGAFORM™ boom with TWIN-LOCK™ pinning
- 12 m - 21 m (39 ft - 69 ft) hydraulic offset bi-fold swingaway
- 2 x 8 m (26 ft) intermediate lattice inserts
- 92,5 t (203,900 lb) counterweight with hydraulic removal system
- MEGATRAK™ independent suspension
- Allison 4500 SP transmission

GROVE GMK6350L-1

Features

MEGATRAK™

The MEGATRAK™ suspension system is the best off road driveline available on the market today. The system's versatility and performance allows the GMK6350L-1 to operate as a true all-terrain crane. The MEGATRAK™ independent suspension and all-wheel steer system allows wheels to remain on the ground at all times so stresses and weight are not continually transferred between axles. MEGATRAK™ provides true ground clearance where others just raise the chassis.



Other benefits of the MEGATRAK™ system are:

- Excellent job site maneuverability with all-wheel steering
- Commonality among almost all models
- A driveline that remains aligned at all times
- A steering linkage system that is protected against damage
- Constant tire contact for equal tire wear
- Reduced maintenance
- A reliable suspension system

TWIN-LOCK™

Boom pinning mechanism automatically pins the sections in position using two horizontal pins.





ECOS

Electronic Crane Operating System - ECOS enables control of the entire crane's principle operations. Simple programming eases lift planning and a supply of essential information allows full concentration on the lift itself.

EKS 5

The EKS 5 monitors the lifting conditions of the crane at all times and provides a full graphic display, rear lighting, graphic of boom telescoping percentage, and load charts.



CraneSTAR®

CraneSTAR is an exclusive and innovative crane asset management system

that helps improve your profitability and reduce costs by remotely monitoring critical crane data.
Visit www.cranestar.com for more information.

Jobsite benefits



- Higher and Stronger: With a maximum boom and extension tip height of 120 m (394 ft) the crane is still able to lift 2,1 t (2.3 USt).
- Be flexible and save logistic costs thanks to interchangeable self-rigging auxiliary hoist and a flexible counterweight.
- Five outrigger positions provide ultimate flexibility for job sites with the ability to position the crane in tighter spaces.
- MEGATRAK™ independent suspension, all-wheel steering system and steer by wire technology provides increased ground clearance, adjustable suspension and reduces tire-wear to provide maximum maneuverability in all-terrains.
- Human Machine Interface (HMI) allows for control of the MEGATRAK™ suspension system from both sides of the carrier allowing for adjustment of ground clearance independent of the outriggers.



Manitowoc Crane Care

The assurance of the world's most advanced crane service and support to get you back to work fast.

Manitowoc Finance

Financial tools that help you capitalize on opportunity with solutions that fit your needs.

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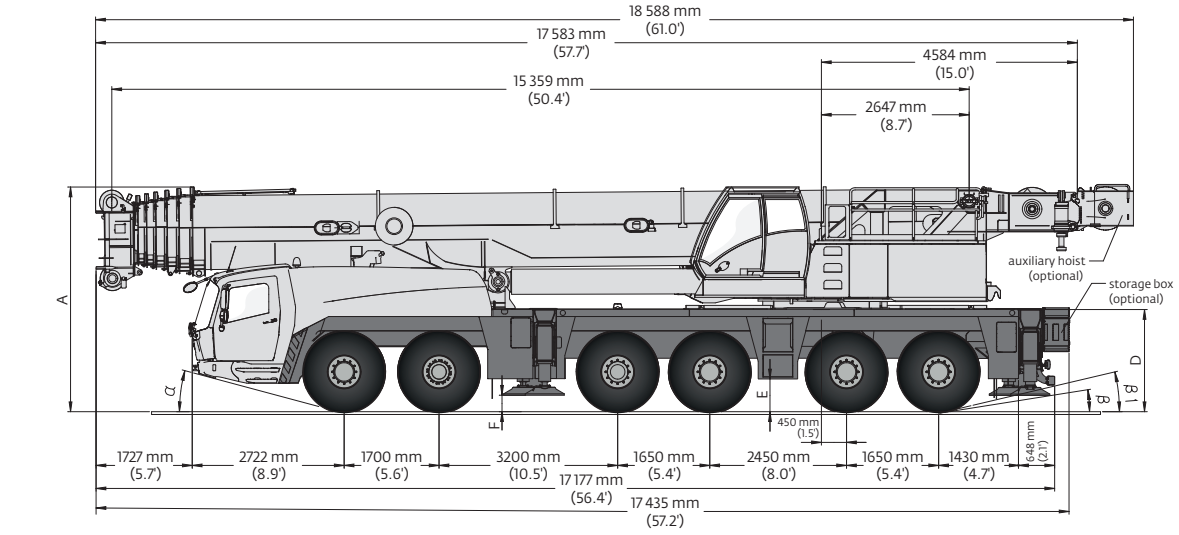
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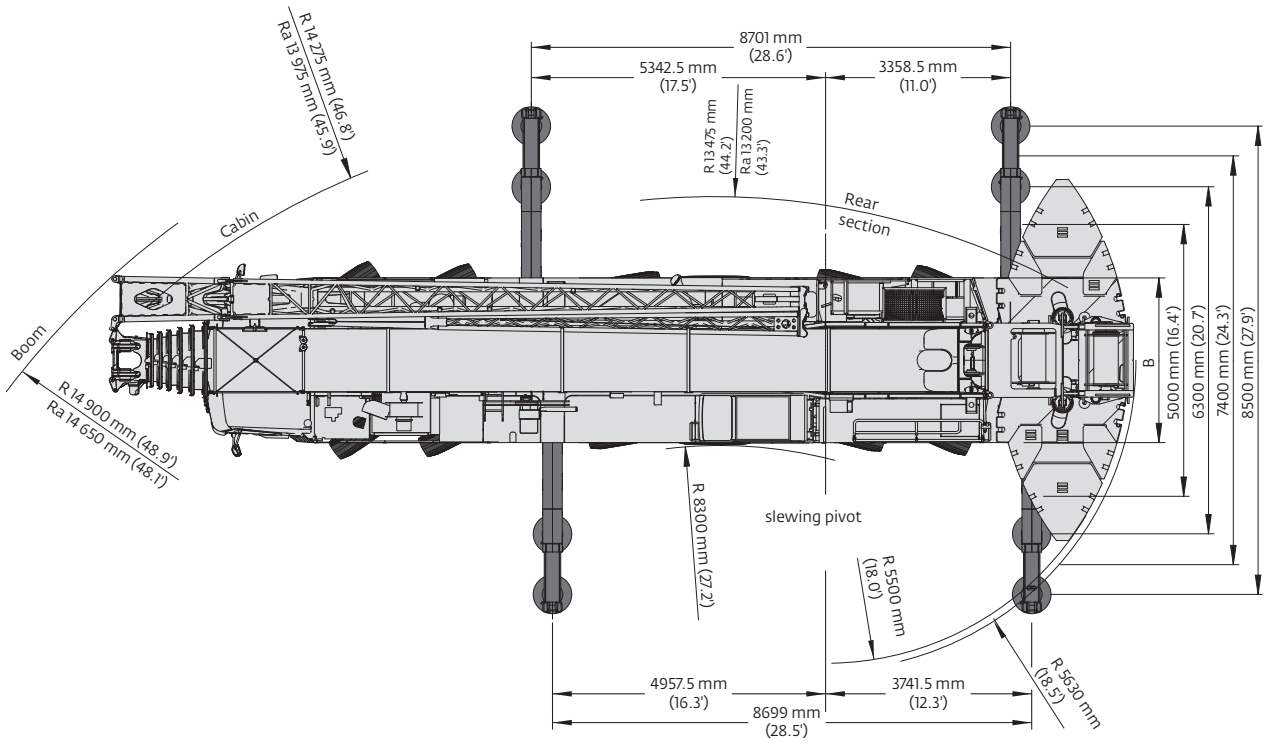
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Dimensions





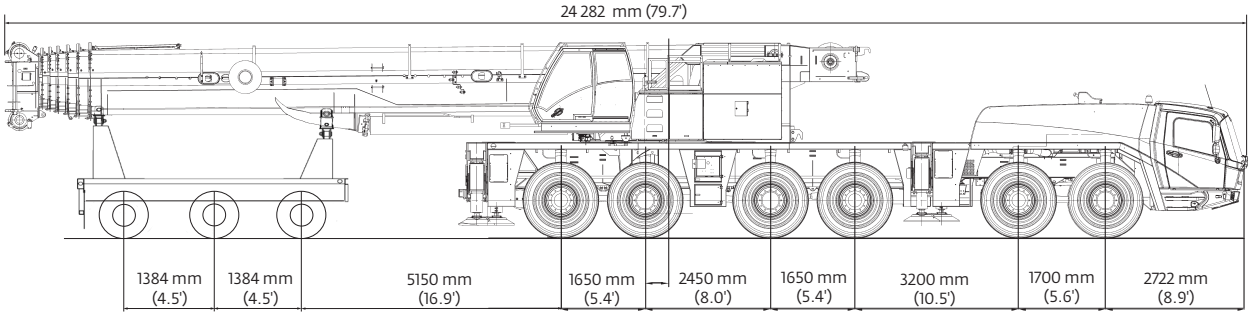
Ra = Radius all wheels steered

	A	**A 130 mm****	**B**	**C**	**D**	**E**	**F**	α	β	β_1
385/95 R25	3950	3820	3000	2570	1802	536	245	14	8	6
445/95 R25	4000	3870	3000	2510	1852	586	295	16	10	8
525/80 R25	4000	3870	3120	2530	1852	586	295	16	10	8

*** Lowered*

Weights

Trailing boom

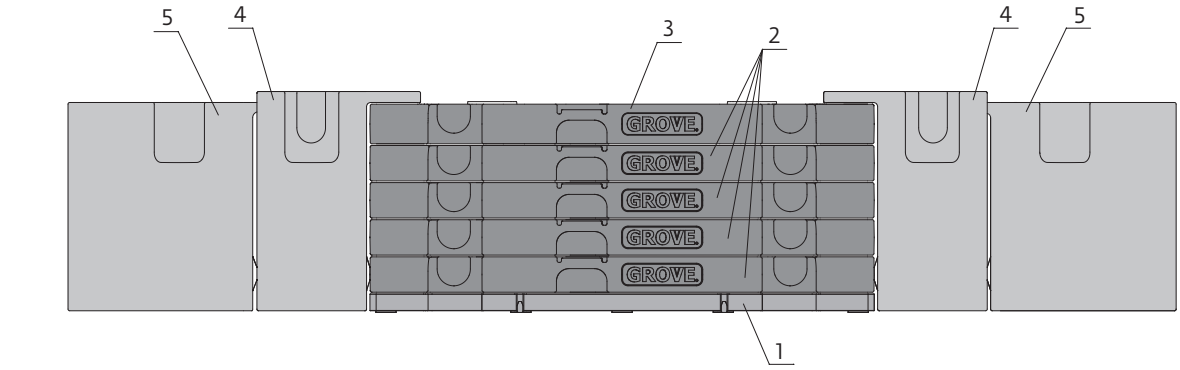


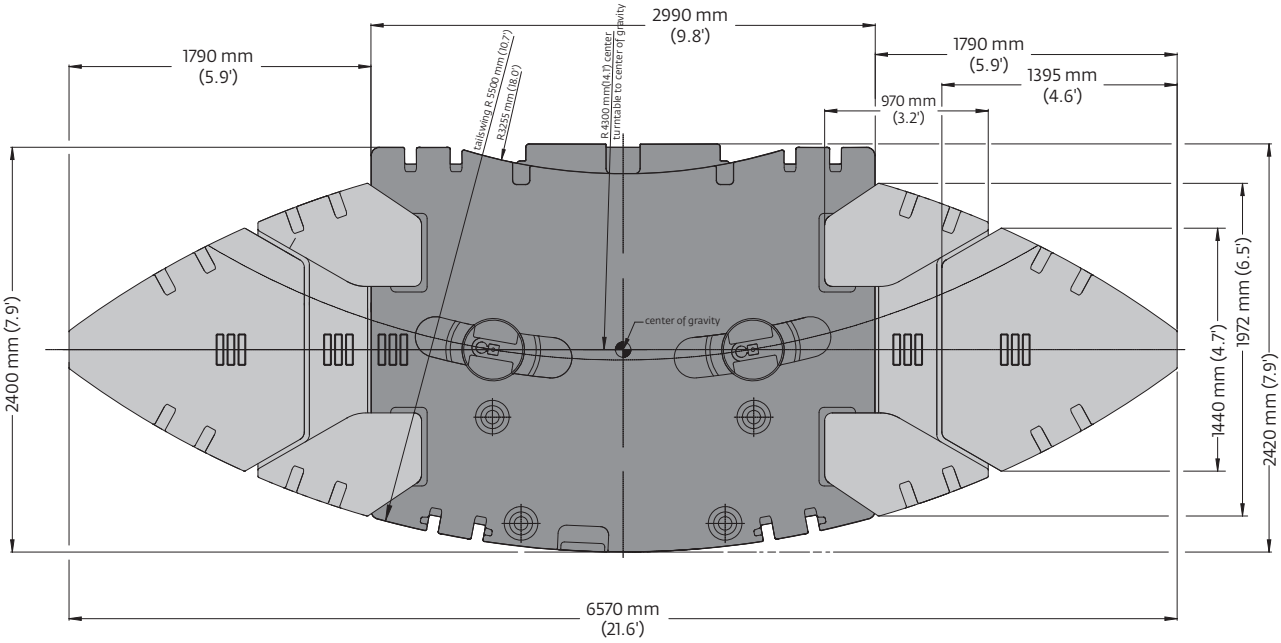
Basic Weights - kg (lb)	Axles 1 and 2		Axles 3 - 6		Three dolly axle		Total	
GMK6350L-1 Tier 4 Final, Mercedes-Benz power with 20.5 R25 tires, 12x8x12 drive/steer, retarder, 12 m - 21 m (39 ft - 69 ft) hydraulic luffing swingaway, 2nd oil cooler, outrigger pads, auxiliary hoist, removed rear outrigger box, driver and tanks filled, three-axle boom dolly (5000 kg [11,023 lb]	17 340 kg	38,240 lb	35 800 kg	78,960 lb	26 190 kg	57,750 lb	79 330 kg	174,950 lb
Additions:								
7000 kg (15,400 lb) base section stowed on carrier	3390 kg	7474 lb	3270 kg	7209 lb	0 kg	0 lb	6660 kg	14,683 lb
Removals:								
12 m - 21 m (39 ft - 69 ft) hydraulic swingaway	-60 kg	-160 lb	- 200 kg	-440 lb	-1740 kg	-3840 lb	- 2000 kg	-4440 lb
Front outriggers	-1596 kg	-3518 lb	- 930 kg	-2050 lb	0 kg	0 lb	- 2526 kg	-5569 lb
Front and rear outrigger floats	- 1 kg	-2 lb	- 244 kg	-538 lb	0 kg	0 lb	- 245 kg	-540 lb
Substitutions:								
12x6x12 drive/steer	160 kg	340 lb	- 560 kg	-1280 lb	0 kg	0 lb	- 400 kg	-940 lb
14.00R25 tires	- 460 kg	-1020 lb	- 920 kg	-2040 lb	0 kg	0 lb	- 1380 kg	-3060 lb
16.00R25 tires	- 240 kg	-560 lb	- 480 kg	-1120 lb	0 kg	0 lb	- 720 kg	-1680 lb

Boom over front

Basic Weights - kg (lb)	Axles 1 and 2		Axles 3 - 6		Total	
GMK6350L-1 Tier 4 Final, Mercedes-Benz power with 20.5 R25 Tires on aluminum wheels, 12x6x12 drive/steer, retarder, 2nd oil cooler, outrigger pads, driver and tanks filled, removable rear outrigger box installed, one sheave 32 t (35 USt) hook block	24 540 kg	54,100 lb	47 080 kg	103,800 lb	71 620 kg	157,900 lb
Additions:						
12x8x12 drive/steer	- 157 kg	-346 lb	569 kg	1254 lb	412 kg	908 lb
Hose reel + parts for hydraulic swingaway	211 kg	465 lb	159 kg	351 lb	370 kg	816 lb
12 m - 21 m (39 ft - 69 ft) hydraulic swingaway	1840 kg	4057 lb	167 kg	368 lb	2007 kg	4425 lb
Auxiliary hoist	- 1813 kg	-3997 lb	4067 kg	8966 lb	2254 kg	4969 lb
7000 kg (15,400 lb) base plate stowed on carrier	3390 kg	7474 lb	3270 kg	7209 lb	6660 kg	14,683 lb
Removals:						
Front and rear outrigger floats	- 1 kg	-2 lb	- 244 kg	-538 lb	- 245 kg	-540 lb
Front outriggers	- 1596 kg	-3519 lb	- 930 kg	-2050 lb	- 2526 kg	-5569 lb
Removable rear outrigger box	3055 kg	6735 lb	- 7948 kg	-17,522 lb	- 4892 kg	-10,785 lb
Main boom	- 16 110 kg	-35,520 lb	- 11 500 kg	-25,360 lb	- 27 610 kg	-60,880 lb

Counterweight





	1 7,0 t (15,400 lb)	2 9,5 t (20,950 lb)	3 9,5 t (20,950 lb)	4* 10,0 t (22,050 lb)	5* 9,0 t (19,850 lb)
7,0 t (15,400 lb)	x	-	-	-	-
16,5 t (36,300 lb)	x	x	-	-	-
26,0 t (57,300 lb)	x	2 x	-	-	-
35,5 t (78,200 lb)	x	3 x	-	-	-
45,0 t (99,200 lb)	x	4 x	-	-	-
54,5 t (120,100 lb)	x	4 x	x	-	-
74,5 t (164,200 lb)	x	4 x	x	2 x	-
92,5 t (203,900 lb)	x	4 x	x	2 x	2 x

** Optional equipment*

Lifting Capacity	Sheaves	Weight	Parts of line	Possible load with crane
125 t (137 USt)	5	1650 kg (3638 lb)	2 - 11	100 t (110 USt)
32 t (35 USt)	1	600 kg (1323 lb)	1 - 3	28 t (31 USt)
12 t (13 USt)	Overhaul Weight	400 kg (880 lb)	1	9,5 t (10.5 USt)

▯ *Requires additional boom nose sheave*

+

		1	2	3	4	5	6	R	
Tier 4 final	mph	5.7	15.0	22.0	34.2	45.4	52.8	7.2	53,6 %
	mph	2.6	6.8	9.9	15.4	20.5	23.6	3.2	
		385/95 R25							

** Theorical gradeability*

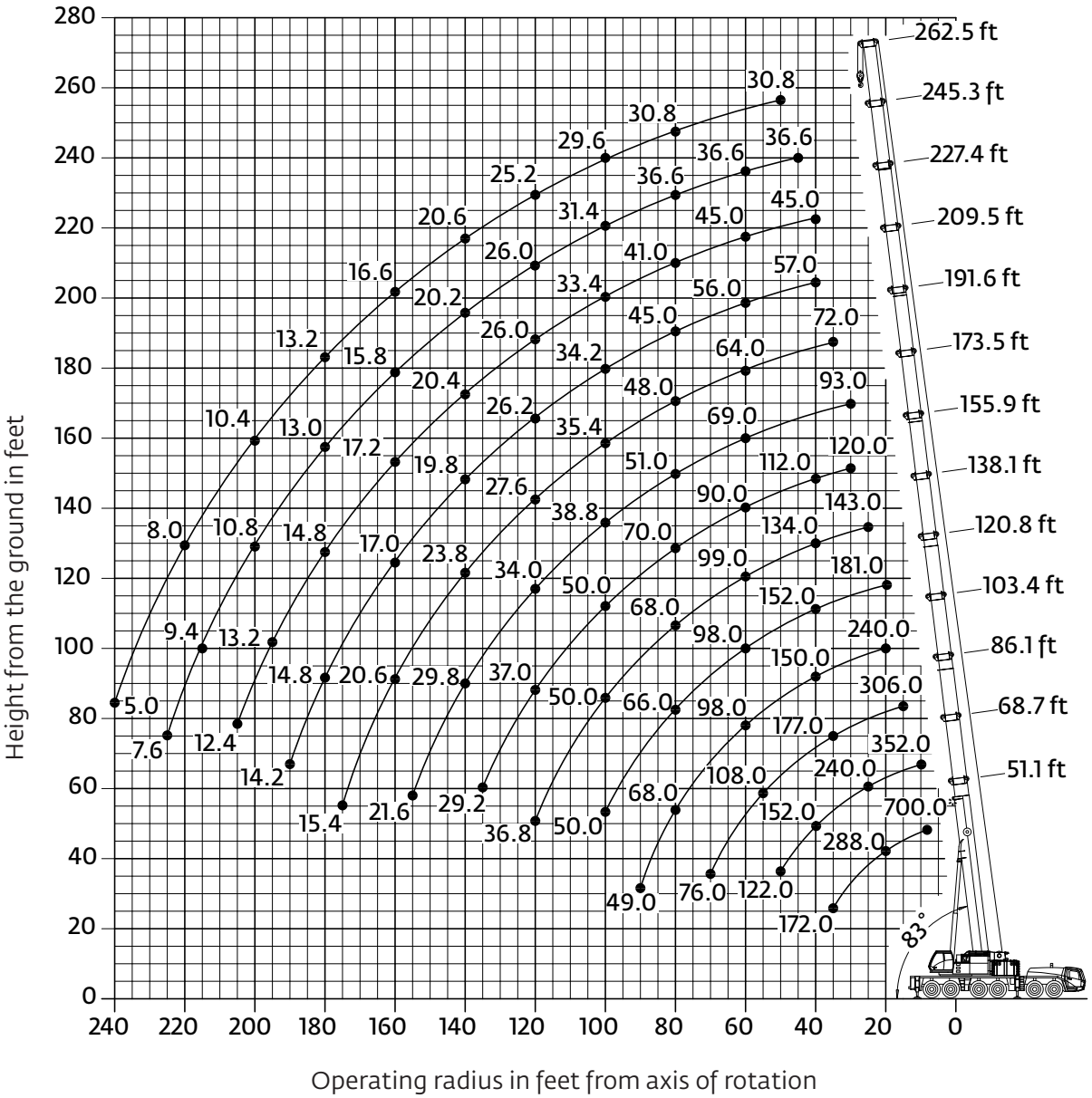
+

	Infinitely variable	Rope	Max. Single line pull
	0 - 120 m/min (0 - 394 ft/min) (Single line)	22 mm / 350 m (22 mm / 1148 ft)	93,5 kN (21,020 lb)
	0 - 120 m/min (0 - 394 ft/min) (Single line)	22 mm / 350 m (22 mm / 1148 ft)	93,5 kN (21,020 lb)
	0 - 1,3 min^{-1}		
	-1,5° to + 83° (approx. 95 s)		
	15,6 to 80,0 m (51.2 to 262.5 ft) (approx. 760 s)		

Working range

Main boom

51 ft - 263 ft main boom



Hook heights shown in the working diagram do not consider loaded boom deflection.



Hook block	H
125 ton (137 USt), 5 sheave	3300 mm (10.8 ft)
32 ton (35 USt), 1 sheave	3200 mm (10.5 ft)
12 ton (13 USt), single line overhaul weight	2450 mm (8.0 ft)

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane

Load charts

Main boom


15,6 m - 80 m
(51.1 ft - 262.5 ft)


92 500 kg
(203,900 lb)


27 ft 9 in spread
(100%)


360°




Pounds x 1000

Feet	51.1	68.7	86.1	103.4	120.8	138.1	155.9	173.5	191.6	209.5	227.4	245.3	262.5
8.0	700.0*	–	–	–	–	–	–	–	–	–	–	–	–
10.0	418.0	352.0	–	–	–	–	–	–	–	–	–	–	–
15.0	348.0	324.0	306.0	–	–	–	–	–	–	–	–	–	–
20.0	288.0	276.0	258.0	240.0	181.0	–	–	–	–	–	–	–	–
25.0	244.0	240.0	230.0	217.0	181.0	143.0	–	–	–	–	–	–	–
30.0	207.0	207.0	202.0	192.0	180.0	143.0	120.0	93.0	–	–	–	–	–
35.0	172.0	178.0	177.0	171.0	167.0	143.0	116.0	93.0	72.0	–	–	–	–
40.0	–	152.0	152.0	150.0	152.0	134.0	112.0	92.0	72.0	57.0	45.0	–	–
45.0	–	135.0	134.0	132.0	135.0	124.0	106.0	87.0	72.0	57.0	45.0	36.6	–
50.0	–	122.0	120.0	118.0	120.0	115.0	101.0	81.0	71.0	57.0	45.0	36.6	30.8
55.0	–	–	108.0	106.0	108.0	107.0	95.0	75.0	68.0	57.0	45.0	36.6	30.8
60.0	–	–	100.0	98.0	98.0	99.0	90.0	69.0	64.0	56.0	45.0	36.6	30.8
65.0	–	–	91.0	91.0	88.0	91.0	84.0	64.0	59.0	54.0	45.0	36.6	30.8
70.0	–	–	76.0	82.0	80.0	82.0	80.0	59.0	55.0	51.0	44.0	36.6	30.8
75.0	–	–	–	74.0	72.0	75.0	76.0	55.0	52.0	48.0	43.0	36.6	30.8
80.0	–	–	–	68.0	66.0	68.0	70.0	51.0	48.0	45.0	41.0	36.6	30.8
85.0	–	–	–	61.0	62.0	62.0	64.0	47.0	44.0	42.4	39.2	35.6	30.8
90.0	–	–	–	49.0	59.0	57.0	59.0	43.2	40.8	39.4	37.2	34.4	30.8
95.0	–	–	–	–	55.0	52.0	55.0	40.4	37.8	36.6	35.4	32.8	30.4
100.0	–	–	–	–	50.0	50.0	50.0	38.8	35.4	34.2	33.4	31.4	29.6
105.0	–	–	–	–	–	47.0	47.0	37.4	32.8	32.0	31.6	30.0	28.6
110.0	–	–	–	–	–	44.0	43.0	36.2	30.8	30.0	29.6	28.8	27.4
115.0	–	–	–	–	–	41.8	40.0	35.0	28.8	28.0	27.8	27.4	26.4
120.0	–	–	–	–	–	36.8	37.0	34.0	27.6	26.2	26.0	26.0	25.2
125.0	–	–	–	–	–	–	34.4	33.0	26.6	24.6	24.6	24.6	24.2
130.0	–	–	–	–	–	–	32.0	32.0	25.8	23.0	23.0	23.4	22.6
135.0	–	–	–	–	–	–	29.2	31.2	24.8	21.2	21.2	21.6	21.4
140.0	–	–	–	–	–	–	–	29.8	23.8	19.8	20.4	20.2	20.6
145.0	–	–	–	–	–	–	–	27.8	22.8	19.0	19.4	19.0	19.6
150.0	–	–	–	–	–	–	–	26.0	22.0	18.2	18.6	18.0	18.6
155.0	–	–	–	–	–	–	–	21.6	21.4	17.6	18.0	17.0	17.6
160.0	–	–	–	–	–	–	–	–	20.6	17.0	17.2	15.8	16.6
165.0	–	–	–	–	–	–	–	–	20.0	16.4	16.6	15.0	15.8
170.0	–	–	–	–	–	–	–	–	19.6	15.8	16.0	14.4	14.8
175.0	–	–	–	–	–	–	–	–	15.4	15.4	15.4	13.8	14.0
180.0	–	–	–	–	–	–	–	–	–	14.8	14.8	13.0	13.2
185.0	–	–	–	–	–	–	–	–	–	14.4	14.2	12.6	12.4
190.0	–	–	–	–	–	–	–	–	–	14.2	13.8	12.0	11.8
195.0	–	–	–	–	–	–	–	–	–	–	13.2	11.4	11.0
200.0	–	–	–	–	–	–	–	–	–	–	12.8	10.8	10.4
205.0	–	–	–	–	–	–	–	–	–	–	12.4	10.4	9.8
210.0	–	–	–	–	–	–	–	–	–	–	–	10.0	9.0
215.0	–	–	–	–	–	–	–	–	–	–	–	9.4	8.4
220.0	–	–	–	–	–	–	–	–	–	–	–	9.0	8.0
225.0	–	–	–	–	–	–	–	–	–	–	–	7.6	7.4
230.0	–	–	–	–	–	–	–	–	–	–	–	–	6.8
235.0	–	–	–	–	–	–	–	–	–	–	–	–	6.2
240.0	–	–	–	–	–	–	–	–	–	–	–	–	5.0

** Over the rear with special equipment*

Loads greater than 370,000 lb can only be lifted with additional equipment.

• Boom length noted represents range of similar lengths.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane

Load charts

Main boom

15,6 m - 80 m (51.1 ft - 262.5 ft) | 74 500 kg (164,200 lb) | 27 ft 9 in spread (100%) | 360°

Pounds x 1000

Feet	51.1	68.7	86.1	103.4	120.8	138.1	155.9	173.5	191.6	209.5	227.4	245.3	262.5
10.0	418.0	352.0	–	–	–	–	–	–	–	–	–	–	–
15.0	348.0	324.0	306.0	–	–	–	–	–	–	–	–	–	–
20.0	286.0	276.0	258.0	240.0	181.0	–	–	–	–	–	–	–	–
25.0	240.0	240.0	230.0	217.0	181.0	143.0	–	–	–	–	–	–	–
30.0	195.0	196.0	196.0	192.0	180.0	143.0	120.0	93.0	–	–	–	–	–
35.0	167.0	168.0	168.0	166.0	167.0	143.0	116.0	93.0	72.0	–	–	–	–
40.0	–	148.0	147.0	145.0	144.0	134.0	112.0	92.0	72.0	57.0	45.0	–	–
45.0	–	132.0	129.0	127.0	124.0	122.0	106.0	87.0	72.0	57.0	45.0	36.6	–
50.0	–	116.0	117.0	115.0	107.0	107.0	101.0	81.0	71.0	57.0	45.0	36.6	30.8
55.0	–	–	103.0	101.0	96.0	94.0	95.0	75.0	68.0	57.0	45.0	36.6	30.8
60.0	–	–	91.0	90.0	88.0	84.0	85.0	69.0	64.0	56.0	45.0	36.6	30.8
65.0	–	–	80.0	79.0	81.0	75.0	76.0	64.0	59.0	54.0	45.0	36.6	30.8
70.0	–	–	71.0	73.0	73.0	69.0	69.0	59.0	55.0	51.0	44.0	36.6	30.8
75.0	–	–	–	67.0	65.0	65.0	63.0	55.0	52.0	48.0	43.0	36.6	30.8
80.0	–	–	–	60.0	59.0	61.0	57.0	51.0	48.0	45.0	41.0	36.6	30.8
85.0	–	–	–	55.0	53.0	56.0	52.0	47.0	44.0	42.4	39.2	35.6	30.8
90.0	–	–	–	49.0	49.0	51.0	48.0	43.2	40.8	39.4	37.2	34.4	30.8
95.0	–	–	–	–	47.0	47.0	44.0	40.4	37.8	36.6	35.4	32.8	30.4
100.0	–	–	–	–	45.0	43.0	40.6	38.8	35.4	34.2	33.4	31.4	29.6
105.0	–	–	–	–	–	39.6	37.0	37.4	32.6	32.0	31.6	30.0	28.6
110.0	–	–	–	–	–	36.6	33.8	36.2	30.0	29.8	29.6	28.8	27.4
115.0	–	–	–	–	–	33.6	32.6	33.4	28.6	27.4	27.8	27.4	26.4
120.0	–	–	–	–	–	31.0	31.4	30.8	27.6	25.2	25.6	26.0	25.2
125.0	–	–	–	–	–	–	30.6	28.4	26.6	23.0	23.8	24.4	24.2
130.0	–	–	–	–	–	–	28.8	26.2	25.8	21.4	22.2	22.6	22.6
135.0	–	–	–	–	–	–	26.8	24.2	24.8	20.4	21.2	20.8	21.4
140.0	–	–	–	–	–	–	–	22.2	23.8	19.6	20.4	19.2	20.2
145.0	–	–	–	–	–	–	–	20.6	22.0	19.0	19.4	18.2	18.8
150.0	–	–	–	–	–	–	–	19.0	20.4	18.2	18.6	17.4	17.4
155.0	–	–	–	–	–	–	–	17.6	18.8	17.6	18.0	16.6	16.2
160.0	–	–	–	–	–	–	–	–	17.4	17.0	17.2	15.8	15.0
165.0	–	–	–	–	–	–	–	–	16.2	16.4	16.6	15.0	13.8
170.0	–	–	–	–	–	–	–	–	15.0	15.4	15.4	14.4	12.6
175.0	–	–	–	–	–	–	–	–	14.0	14.2	14.2	13.2	11.4
180.0	–	–	–	–	–	–	–	–	–	13.2	13.0	12.2	10.2
185.0	–	–	–	–	–	–	–	–	–	12.8	12.0	11.0	9.2
190.0	–	–	–	–	–	–	–	–	–	12.4	11.0	10.2	8.2
195.0	–	–	–	–	–	–	–	–	–	–	10.2	9.2	7.4
200.0	–	–	–	–	–	–	–	–	–	–	9.6	8.4	6.6
205.0	–	–	–	–	–	–	–	–	–	–	9.0	7.6	5.8
210.0	–	–	–	–	–	–	–	–	–	–	–	6.8	5.0
215.0	–	–	–	–	–	–	–	–	–	–	–	6.0	4.2
220.0	–	–	–	–	–	–	–	–	–	–	–	5.4	3.6
225.0	–	–	–	–	–	–	–	–	–	–	–	4.8	2.8

Loads greater than 370,000 lb can only be lifted with additional equipment.

• Boom length noted represents range of similar lengths.

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15,6 m - 80 m (51.1 ft - 262.5 ft)


54 500 kg (120,100 lb)


27 ft 9 in spread (100%)


360°





Pounds x 1000

Feet	51.1	68.7	86.1	103.4	120.8	138.1	155.9	173.5	191.6	209.5	227.4	245.3	262.5
10.0	418.0	352.0	–	–	–	–	–	–	–	–	–	–	–
15.0	344.0	324.0	306.0	–	–	–	–	–	–	–	–	–	–
20.0	278.0	276.0	258.0	240.0	181.0	–	–	–	–	–	–	–	–
25.0	220.0	220.0	220.0	217.0	181.0	143.0	–	–	–	–	–	–	–
30.0	186.0	188.0	187.0	175.0	166.0	143.0	120.0	93.0	–	–	–	–	–
35.0	156.0	160.0	156.0	147.0	140.0	133.0	116.0	93.0	72.0	–	–	–	–
40.0	–	135.0	130.0	122.0	121.0	112.0	111.0	92.0	72.0	57.0	45.0	–	–
45.0	–	113.0	111.0	109.0	103.0	96.0	96.0	87.0	72.0	57.0	45.0	36.6	–
50.0	–	97.0	95.0	95.0	90.0	90.0	84.0	78.0	71.0	57.0	45.0	36.6	30.8
55.0	–	–	81.0	84.0	79.0	79.0	74.0	69.0	66.0	57.0	45.0	36.6	30.8
60.0	–	–	73.0	74.0	71.0	71.0	66.0	61.0	58.0	56.0	45.0	36.6	30.8
65.0	–	–	65.0	65.0	66.0	63.0	58.0	54.0	52.0	51.0	45.0	36.6	30.8
70.0	–	–	57.0	57.0	61.0	57.0	52.0	51.0	46.0	46.0	44.0	36.6	30.8
75.0	–	–	–	51.0	54.0	52.0	47.0	49.0	41.4	40.8	41.0	36.6	30.8
80.0	–	–	–	48.0	48.0	47.0	42.8	44.0	38.6	36.6	37.0	36.6	30.8
85.0	–	–	–	44.0	43.6	41.8	40.8	40.4	36.8	33.0	33.4	33.8	30.8
90.0	–	–	–	40.0	39.4	37.6	39.0	36.8	35.2	31.0	32.0	32.2	30.8
95.0	–	–	–	–	35.6	34.4	36.6	33.8	33.8	29.6	30.6	30.8	28.8
100.0	–	–	–	–	32.4	33.2	33.2	30.6	31.6	28.2	29.2	28.8	26.2
105.0	–	–	–	–	–	31.8	30.2	27.6	29.2	27.0	28.0	26.6	24.0
110.0	–	–	–	–	–	29.4	27.6	25.0	26.6	25.8	26.0	24.4	22.0
115.0	–	–	–	–	–	27.0	25.2	22.6	24.2	24.6	24.0	22.4	20.0
120.0	–	–	–	–	–	24.8	23.0	20.4	22.0	23.0	22.4	20.6	18.2
125.0	–	–	–	–	–	–	21.2	18.4	20.4	22.0	21.0	19.0	16.6
130.0	–	–	–	–	–	–	19.4	17.6	19.6	20.4	19.2	17.4	15.2
135.0	–	–	–	–	–	–	17.6	17.0	18.8	18.8	17.6	16.0	13.8
140.0	–	–	–	–	–	–	–	16.2	17.8	17.2	16.0	14.4	12.4
145.0	–	–	–	–	–	–	–	15.6	16.4	15.8	14.6	13.0	11.2
150.0	–	–	–	–	–	–	–	15.0	15.4	14.4	13.2	11.8	9.8
155.0	–	–	–	–	–	–	–	14.4	14.2	13.2	12.0	10.4	8.6
160.0	–	–	–	–	–	–	–	–	13.2	12.0	10.8	9.4	7.4
165.0	–	–	–	–	–	–	–	–	12.0	11.0	9.8	8.2	6.4
170.0	–	–	–	–	–	–	–	–	11.0	10.0	8.8	7.2	5.4
175.0	–	–	–	–	–	–	–	–	10.2	9.2	7.8	6.4	4.4
180.0	–	–	–	–	–	–	–	–	–	8.2	7.0	5.4	3.6
185.0	–	–	–	–	–	–	–	–	–	7.4	6.0	4.6	2.8
190.0	–	–	–	–	–	–	–	–	–	6.6	5.4	3.8	–
195.0	–	–	–	–	–	–	–	–	–	–	4.6	3.2	–
200.0	–	–	–	–	–	–	–	–	–	–	3.8	–	–
205.0	–	–	–	–	–	–	–	–	–	–	3.2	–	–


15,6 m - 80 m (51.1 ft - 262.5 ft)


45 000 kg (99,200 lb)


27 ft 9 in spread (100%)


360°





Pounds x 1000

Feet	51.1	68.7	86.1	103.4	120.8	138.1	155.9	173.5	191.6	209.5	227.4	245.3	262.5
10.0	418.0	352.0	–	–	–	–	–	–	–	–	–	–	–
15.0	340.0	324.0	306.0	–	–	–	–	–	–	–	–	–	–
20.0	268.0	266.0	258.0	240.0	181.0	–	–	–	–	–	–	–	–
25.0	216.0	218.0	215.0	196.0	181.0	143.0	–	–	–	–	–	–	–
30.0	178.0	182.0	171.0	160.0	155.0	143.0	120.0	93.0	–	–	–	–	–
35.0	145.0	146.0	139.0	132.0	127.0	118.0	116.0	93.0	72.0	–	–	–	–
40.0	–	119.0	115.0	113.0	106.0	102.0	98.0	91.0	72.0	57.0	45.0	–	–
45.0	–	100.0	97.0	97.0	91.0	91.0	84.0	78.0	72.0	57.0	45.0	36.6	–
50.0	–	83.0	86.0	84.0	83.0	79.0	73.0	68.0	65.0	57.0	45.0	36.6	30.8
55.0	–	–	73.0	73.0	74.0	70.0	64.0	59.0	57.0	55.0	45.0	36.6	30.8
60.0	–	–	63.0	63.0	66.0	62.0	57.0	56.0	50.0	49.0	45.0	36.6	30.8
65.0	–	–	56.0	58.0	59.0	55.0	50.0	52.0	45.0	43.2	43.2	36.6	30.8
70.0	–	–	51.0	52.0	52.0	49.0	48.0	46.0	42.8	38.4	38.4	36.6	30.8
75.0	–	–	–	46.0	46.0	44.0	45.0	41.8	40.6	36.4	36.6	35.4	30.8
80.0	–	–	–	41.4	40.8	39.2	41.6	37.8	38.2	34.4	34.8	34.6	30.8
85.0	–	–	–	37.2	36.6	37.6	37.4	34.2	34.8	32.8	33.4	31.6	28.8
90.0	–	–	–	33.4	32.8	35.6	33.6	31.0	31.8	31.0	31.0	28.8	26.0
95.0	–	–	–	–	31.2	32.2	30.4	27.6	29.0	29.2	28.4	26.2	23.4
100.0	–	–	–	–	30.0	29.2	27.4	24.8	26.4	27.8	26.0	23.8	21.2
105.0	–	–	–	–	–	26.6	24.8	23.0	25.0	25.8	23.8	21.6	19.0
110.0	–	–	–	–	–	24.2	22.4	21.4	24.0	23.6	21.8	19.6	17.2
115.0	–	–	–	–	–	22.0	20.2	20.2	22.0	21.4	20.0	17.8	15.4
120.0	–	–	–	–	–	20.0	18.2	19.4	20.6	19.4	18.2	16.2	13.8
125.0	–	–	–	–	–	–	16.6	18.4	18.8	17.6	16.4	14.8	12.4
130.0	–	–	–	–	–	–	15.6	17.6	17.0	16.0	14.8	13.2	11.0
135.0	–	–	–	–	–	–	15.0	16.6	15.6	14.6	13.4	11.8	9.8
140.0	–	–	–	–	–	–	–	15.2	14.2	13.2	12.0	10.4	8.6
145.0	–	–	–	–	–	–	–	14.0	13.0	11.8	10.6	9.2	7.2
150.0	–	–	–	–	–	–	–	12.8	11.8	10.6	9.4	8.0	6.0
155.0	–	–	–	–	–	–	–	11.8	10.6	9.6	8.4	6.8	5.0
160.0	–	–	–	–	–	–	–	–	9.6	8.6	7.4	5.8	4.0
165.0	–	–	–	–	–	–	–	–	8.6	7.6	6.4	4.8	3.0
170.0	–	–	–	–	–	–	–	–	7.8	6.8	5.4	4.0	–
175.0	–	–	–	–	–	–	–	–	7.0	6.0	4.6	3.2	–
180.0	–	–	–	–	–	–	–	–	–	5.2	3.8	–	–
185.0	–	–	–	–	–	–	–	–	–	4.4	3.0	–	–
190.0	–	–	–	–	–	–	–	–	–	3.8	–	–	–

Loads greater than 370,000 lb can only be lifted with additional equipment. • Boom length noted represents range of similar lengths.

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane

Load charts

Main boom

15,6 m - 80 m (51.1 ft - 262.5 ft) | 35 500 kg (78,200 lb) | 27 ft 9 in spread (100%) | 360°

Pounds x 1000

Feet	51.1	68.7	86.1	103.4	120.8	138.1	155.9	173.5	191.6	209.5	227.4	245.3	262.5
10.0	418.0	352.0	–	–	–	–	–	–	–	–	–	–	–
15.0	336.0	324.0	306.0	–	–	–	–	–	–	–	–	–	–
20.0	256.0	258.0	256.0	232.0	181.0	–	–	–	–	–	–	–	–
25.0	209.0	206.0	190.0	180.0	167.0	143.0	–	–	–	–	–	–	–
30.0	165.0	160.0	150.0	146.0	136.0	125.0	120.0	93.0	–	–	–	–	–
35.0	123.0	130.0	121.0	119.0	111.0	109.0	101.0	93.0	72.0	–	–	–	–
40.0	–	104.0	103.0	99.0	96.0	92.0	85.0	78.0	72.0	57.0	45.0	–	–
45.0	–	84.0	88.0	84.0	84.0	79.0	73.0	67.0	64.0	57.0	45.0	36.6	–
50.0	–	70.0	73.0	73.0	73.0	68.0	63.0	63.0	55.0	53.0	45.0	36.6	30.8
55.0	–	–	64.0	66.0	64.0	60.0	56.0	56.0	51.0	46.0	45.0	36.6	30.8
60.0	–	–	56.0	57.0	57.0	53.0	53.0	49.0	48.0	42.8	41.0	36.6	30.8
65.0	–	–	48.0	50.0	49.0	47.0	48.0	43.4	43.8	40.4	40.0	36.2	30.8
70.0	–	–	42.2	43.6	43.0	44.0	42.8	38.6	39.0	38.4	37.8	35.0	30.8
75.0	–	–	–	38.4	37.8	40.6	38.4	34.4	35.0	35.6	34.0	31.4	28.4
80.0	–	–	–	33.8	35.6	36.2	34.4	30.6	32.6	32.8	30.6	28.2	25.2
85.0	–	–	–	30.0	33.2	32.2	30.4	28.6	30.8	29.8	27.6	25.2	22.4
90.0	–	–	–	28.8	29.8	29.0	27.0	27.0	28.8	27.0	25.0	22.6	20.0
95.0	–	–	–	–	26.8	26.2	24.2	25.6	26.2	24.4	22.6	20.4	17.8
100.0	–	–	–	–	24.2	25.0	21.6	24.2	23.8	22.2	20.4	18.2	15.8
105.0	–	–	–	–	–	23.0	20.2	22.6	21.4	20.2	18.4	16.4	13.8
110.0	–	–	–	–	–	21.0	19.2	20.4	19.4	18.4	16.6	14.6	12.2
115.0	–	–	–	–	–	19.0	18.2	18.6	17.4	16.4	15.0	13.0	10.6
120.0	–	–	–	–	–	17.4	17.2	16.8	15.8	14.6	13.4	11.6	9.2
125.0	–	–	–	–	–	–	15.6	15.2	14.2	13.0	11.8	10.2	8.0
130.0	–	–	–	–	–	–	14.0	13.8	12.6	11.6	10.4	9.0	6.8
135.0	–	–	–	–	–	–	12.8	12.4	11.4	10.4	9.0	7.6	5.6
140.0	–	–	–	–	–	–	–	11.2	10.2	9.2	7.8	6.4	4.6
145.0	–	–	–	–	–	–	–	10.0	9.0	8.0	6.8	5.2	3.4
150.0	–	–	–	–	–	–	–	9.0	8.0	7.0	5.6	4.2	–
155.0	–	–	–	–	–	–	–	8.0	7.0	6.0	4.8	3.2	–
160.0	–	–	–	–	–	–	–	–	6.2	5.0	3.8	–	–
165.0	–	–	–	–	–	–	–	–	5.2	4.2	3.0	–	–
170.0	–	–	–	–	–	–	–	–	4.6	3.4	–	–	–
175.0	–	–	–	–	–	–	–	–	3.8	2.8	–	–	–

15,6 m - 80 m (51.1 ft - 262.5 ft) | 26 000 kg (57,300 lb) | 27 ft 9 in spread (100%) | 360°

Pounds x 1000

Feet	51.1	68.7	86.1	103.4	120.8	138.1	155.9	173.5	191.6	209.5	227.4	245.3	262.5
10.0	418.0	352.0	–	–	–	–	–	–	–	–	–	–	–
15.0	330.0	324.0	306.0	–	–	–	–	–	–	–	–	–	–
20.0	252.0	252.0	226.0	201.0	181.0	–	–	–	–	–	–	–	–
25.0	194.0	182.0	169.0	162.0	149.0	135.0	–	–	–	–	–	–	–
30.0	137.0	140.0	130.0	126.0	116.0	114.0	105.0	93.0	–	–	–	–	–
35.0	101.0	110.0	108.0	102.0	101.0	94.0	86.0	79.0	72.0	–	–	–	–
40.0	–	86.0	89.0	88.0	84.0	78.0	72.0	71.0	62.0	57.0	45.0	–	–
45.0	–	69.0	73.0	76.0	72.0	67.0	64.0	61.0	57.0	50.0	45.0	36.6	–
50.0	–	58.0	63.0	64.0	61.0	57.0	58.0	52.0	52.0	49.0	43.0	36.6	30.8
55.0	–	–	53.0	54.0	53.0	52.0	50.0	45.0	45.0	44.0	42.0	36.2	30.8
60.0	–	–	45.0	46.0	46.0	48.0	44.0	39.4	41.4	41.0	38.2	35.2	30.8
65.0	–	–	38.6	40.0	41.8	42.2	38.6	36.6	38.2	36.2	33.8	31.0	27.8
70.0	–	–	33.2	35.0	38.0	37.0	34.2	34.4	34.4	32.2	30.0	27.4	24.4
75.0	–	–	–	32.8	33.4	32.8	30.4	32.2	30.8	28.8	26.6	24.0	21.2
80.0	–	–	–	28.8	29.4	30.8	27.8	29.6	27.6	25.8	23.6	21.2	18.6
85.0	–	–	–	25.6	26.0	27.4	26.2	26.8	24.8	23.0	21.0	18.8	16.2
90.0	–	–	–	22.6	23.6	24.4	24.4	24.0	22.4	20.6	18.8	16.6	14.0
95.0	–	–	–	–	21.0	21.8	21.8	21.4	20.2	18.4	16.6	14.4	12.0
100.0	–	–	–	–	18.8	19.6	19.4	19.0	18.0	16.6	14.8	12.6	10.2
105.0	–	–	–	–	–	17.6	17.4	17.0	16.0	14.8	13.0	11.0	8.6
110.0	–	–	–	–	–	15.6	15.6	15.2	14.2	13.0	11.6	9.6	7.2
115.0	–	–	–	–	–	14.0	13.8	13.6	12.4	11.4	10.0	8.2	5.8
120.0	–	–	–	–	–	12.6	12.4	12.0	11.0	10.0	8.6	6.8	4.6
125.0	–	–	–	–	–	–	11.0	10.6	9.6	8.6	7.4	5.6	3.4
130.0	–	–	–	–	–	–	9.8	9.4	8.4	7.2	6.0	4.6	–
135.0	–	–	–	–	–	–	8.6	8.2	7.2	6.2	4.8	3.4	–
140.0	–	–	–	–	–	–	–	7.2	6.2	5.0	3.8	–	–
145.0	–	–	–	–	–	–	–	6.2	5.2	4.2	2.8	–	–
150.0	–	–	–	–	–	–	–	5.2	4.2	3.2	–	–	–
155.0	–	–	–	–	–	–	–	4.4	3.4	–	–	–	–

Loads greater than 370,000 lb can only be lifted with additional equipment.

• Boom length noted represents range of similar lengths.

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The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane

Loads greater than 370,000 lb can only be lifted with additional equipment. • Boom length noted represents range of similar lengths.

15,6 m - 80 m (51.1 ft - 262.5 ft) | **16 500 kg (36,300 lb)** | **27 ft 9 in spread (100%)** | **360°**

Pounds x 1000

Feet	51.1	68.7	86.1	103.4	120.8	138.1	155.9	173.5	191.6	209.5	227.4	245.3	262.5
10.0	418.0	352.0	–	–	–	–	–	–	–	–	–	–	–
15.0	320.0	320.0	298.0	–	–	–	–	–	–	–	–	–	–
20.0	238.0	213.0	190.0	178.0	167.0	–	–	–	–	–	–	–	–
25.0	163.0	156.0	148.0	137.0	125.0	122.0	–	–	–	–	–	–	–
30.0	109.0	117.0	112.0	105.0	104.0	96.0	87.0	79.0	–	–	–	–	–
35.0	80.0	88.0	90.0	90.0	84.0	77.0	74.0	70.0	61.0	–	–	–	–
40.0	–	68.0	75.0	73.0	69.0	64.0	64.0	57.0	57.0	51.0	45.0	–	–
45.0	–	55.0	60.0	61.0	57.0	58.0	54.0	50.0	51.0	47.0	43.6	36.6	–
50.0	–	45.0	49.0	51.0	52.0	50.0	46.0	46.0	45.0	41.8	38.8	35.6	30.8
55.0	–	–	41.0	42.6	46.0	43.0	39.6	41.4	38.8	36.2	33.6	30.4	27.2
60.0	–	–	34.4	38.6	39.2	39.6	36.6	36.4	34.0	31.6	29.0	26.2	23.0
65.0	–	–	29.6	33.0	33.6	35.0	33.6	32.0	29.8	27.6	25.2	22.4	19.4
70.0	–	–	25.0	28.4	29.6	30.4	29.8	28.2	26.2	24.0	21.8	19.2	16.2
75.0	–	–	–	24.6	25.8	26.6	26.4	25.0	23.0	21.0	18.8	16.4	13.6
80.0	–	–	–	21.4	22.4	23.2	23.2	22.0	20.2	18.2	16.2	13.8	11.2
85.0	–	–	–	18.4	19.6	20.4	20.2	19.6	17.8	16.0	14.0	11.6	9.0
90.0	–	–	–	16.0	17.0	17.8	17.8	17.4	15.6	13.8	12.0	9.8	7.2
95.0	–	–	–	–	14.8	15.6	15.6	15.2	13.6	12.0	10.2	8.0	5.6
100.0	–	–	–	–	13.0	13.8	13.6	13.2	12.0	10.4	8.6	6.4	4.0
105.0	–	–	–	–	–	12.0	11.8	11.4	10.4	8.8	7.0	5.0	2.6
110.0	–	–	–	–	–	10.4	10.2	10.0	8.8	7.4	5.8	3.8	–
115.0	–	–	–	–	–	9.0	8.8	8.4	7.4	6.2	4.6	–	–
120.0	–	–	–	–	–	7.8	7.6	7.2	6.2	5.0	3.4	–	–
125.0	–	–	–	–	–	–	6.4	6.0	5.0	4.0	–	–	–
130.0	–	–	–	–	–	–	5.4	5.0	4.0	3.0	–	–	–
135.0	–	–	–	–	–	–	4.4	4.0	3.0	–	–	–	–
140.0	–	–	–	–	–	–	–	3.2	–	–	–	–	–

15,6 m - 80 m (51.1 ft - 262.5 ft) | **7000 kg (15,400 lb)** | **27 ft 9 in spread (100%)** | **360°**

Pounds x 1000

Feet	51.1	68.7	86.1	103.4	120.8	138.1	155.9	173.5	191.6	209.5	227.4	245.3	262.5
10.0	414.0	352.0	–	–	–	–	–	–	–	–	–	–	–
15.0	304.0	294.0	254.0	–	–	–	–	–	–	–	–	–	–
20.0	195.0	179.0	166.0	153.0	138.0	–	–	–	–	–	–	–	–
25.0	125.0	128.0	121.0	115.0	108.0	98.0	–	–	–	–	–	–	–
30.0	82.0	91.0	94.0	89.0	82.0	77.0	74.0	66.0	–	–	–	–	–
35.0	58.0	69.0	73.0	70.0	66.0	65.0	59.0	58.0	56.0	–	–	–	–
40.0	–	52.0	57.0	56.0	57.0	55.0	52.0	50.0	46.0	42.8	39.0	–	–
45.0	–	40.2	45.0	49.0	47.0	47.0	44.0	41.8	38.6	35.4	32.2	28.6	–
50.0	–	31.4	36.8	40.6	40.0	39.0	37.2	35.0	32.4	29.6	26.6	23.4	20.0
55.0	–	–	29.8	33.6	33.8	33.2	31.6	29.8	27.2	24.8	22.2	19.2	16.0
60.0	–	–	24.4	28.0	28.6	28.2	27.0	25.4	23.0	20.8	18.4	15.8	12.8
65.0	–	–	19.8	23.4	24.4	24.2	23.0	21.6	19.6	17.6	15.4	12.8	9.8
70.0	–	–	16.2	19.6	20.8	20.8	19.8	18.6	16.6	14.6	12.6	10.2	7.4
75.0	–	–	–	16.4	17.6	18.0	17.0	16.0	14.0	12.2	10.2	8.0	5.4
80.0	–	–	–	13.8	14.8	15.6	14.6	13.6	11.8	10.2	8.2	6.0	3.4
85.0	–	–	–	11.4	12.6	13.4	12.6	11.6	10.0	8.2	6.4	4.2	–
90.0	–	–	–	9.4	10.4	11.2	10.8	9.8	8.2	6.6	4.8	2.8	–
95.0	–	–	–	–	8.6	9.4	9.2	8.2	6.6	5.2	3.4	–	–
100.0	–	–	–	–	7.0	7.8	7.6	6.8	5.2	3.8	–	–	–
105.0	–	–	–	–	–	6.4	6.2	5.6	4.0	–	–	–	–
110.0	–	–	–	–	–	5.2	5.0	4.4	3.0	–	–	–	–
115.0	–	–	–	–	–	4.0	3.8	3.4	–	–	–	–	–
120.0	–	–	–	–	–	3.0	2.8	–	–	–	–	–	–

15,6 m - 80 m (51.1 ft - 262.5 ft) | **0 kg (0 lb)** | **27 ft 9 in spread (100%)** | **360°**

Pounds x 1000

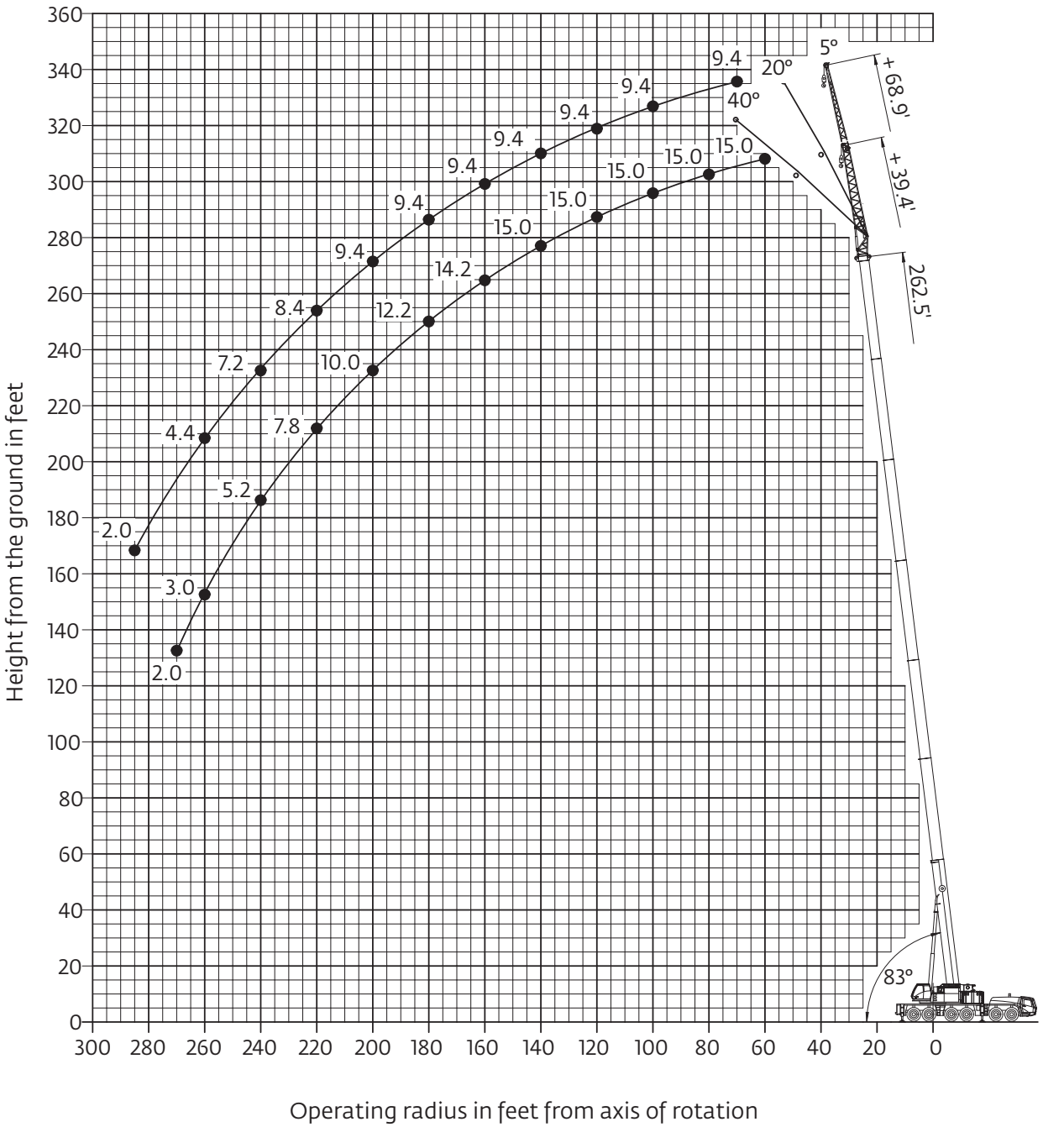
Feet	51.1	68.7	86.1	103.4	120.8	138.1	155.9	173.3	191.6	209.5	226.7
10.0	410.0	352.0	–	–	–	–	–	–	–	–	–
15.0	294.0	258.0	217.0	–	–	–	–	–	–	–	–
20.0	165.0	156.0	144.0	130.0	125.0	–	–	–	–	–	–
25.0	99.0	105.0	104.0	97.0	89.0	84.0	–	–	–	–	–
30.0	63.0	74.0	76.0	72.0	71.0	67.0	63.0	60.0	–	–	–
35.0	42.6	53.0	57.0	59.0	56.0	54.0	51.0	47.0	43.0	–	–
40.0	–	39.2	44.0	46.0	45.0	43.0	40.6	37.8	34.4	31.2	27.8
45.0	–	29.4	34.8	36.6	36.0	35.0	33.0	30.8	28.0	25.2	22.2
50.0	–	22.0	27.4	29.8	29.4	28.8	27.2	25.4	22.8	20.4	17.8
55.0	–	–	21.6	24.2	24.2	23.8	22.6	21.0	18.6	16.4	14.0
60.0	–	–	16.8	20.0	20.0	19.8	18.8	17.4	15.2	13.2	11.0
65.0	–	–	13.0	16.4	16.6	16.6	15.6	14.4	12.4	10.4	8.4
70.0	–	–	10.0	13.4	13.6	13.8	12.8	11.8	10.0	8.2	6.2
75.0	–	–	–	10.8	11.2	11.4	10.6	9.6	7.8	6.2	4.2
80.0	–	–	–	8.4	9.2	9.4	8.6	7.6	6.0	4.4	–
85.0	–	–	–	6.4	7.4	7.6	6.8	6.0	4.4	2.8	–
90.0	–	–	–	4.8	5.8	6.0	5.4	4.6	3.0	–	–
95.0	–	–	–	–	4.4	4.6	4.0	3.2	–	–	–
100.0	–	–	–	–	3.0	3.4	2.8	–	–	–	–

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The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane

Working range

Hydraulic offsettable swingaway

263 ft main boom with 39 ft - 69 ft swingaway



Hook heights shown in the working diagram do not consider loaded boom deflection.

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Intermediate angle and loads for luffing


74,8 m -80 m
(245 ft - 263 ft)


12 m - 21 m
(39 ft - 69 ft)


92 500 kg
(203,900 lb)


27 ft 9 in spread
(100%)


360°




Pounds x 1000

Feet	245.3' + 39.4'			262.5' + 39.4'			245.3' + 68.9'			262.5' + 68.9'		
	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°
55.0	18.6	–	–	–	–	–	–	–	–	–	–	–
60.0	18.6	18.0	–	15.0	14.8	–	–	–	–	–	–	–
65.0	18.6	18.0	–	15.0	14.8	–	–	–	–	–	–	–
70.0	18.6	18.0	–	15.0	14.8	–	11.0	–	–	9.4	–	–
75.0	18.6	18.0	18.0	15.0	14.8	–	11.0	–	–	9.4	–	–
80.0	18.6	18.0	17.8	15.0	14.8	14.8	11.0	11.0	–	9.4	9.4	–
85.0	18.6	18.0	17.6	15.0	14.8	14.8	11.0	11.0	–	9.4	9.4	–
90.0	18.6	18.0	17.6	15.0	14.8	14.8	11.0	11.0	–	9.4	9.4	–
95.0	18.6	18.0	17.4	15.0	14.8	14.8	11.0	11.0	–	9.4	9.4	–
100.0	18.6	18.0	17.2	15.0	14.8	14.8	11.0	11.0	9.6	9.4	9.4	–
105.0	18.6	18.0	17.2	15.0	14.8	14.8	11.0	11.0	9.4	9.4	9.4	9.4
110.0	18.6	18.0	17.0	15.0	14.8	14.8	11.0	11.0	9.4	9.4	9.4	9.2
115.0	18.6	18.0	17.0	15.0	14.8	14.8	11.0	10.8	9.2	9.4	9.4	9.2
120.0	18.6	18.0	16.8	15.0	14.8	14.8	11.0	10.6	9.2	9.4	9.4	9.2
125.0	18.6	18.0	16.8	15.0	14.8	14.8	11.0	10.6	9.2	9.4	9.4	9.0
130.0	18.6	18.0	16.6	15.0	14.8	14.8	11.0	10.4	9.0	9.4	9.4	9.0
135.0	18.4	18.0	16.6	15.0	14.8	14.8	11.0	10.2	9.0	9.4	9.4	9.0
140.0	17.8	17.6	16.4	15.0	14.8	14.8	11.0	10.2	9.0	9.4	9.4	8.8
145.0	17.0	17.0	16.4	15.0	14.8	14.8	11.0	10.0	8.8	9.4	9.4	8.8
150.0	16.2	16.2	16.2	15.0	14.8	14.6	11.0	9.8	8.8	9.4	9.4	8.8
155.0	15.4	15.4	15.6	14.6	14.6	14.4	11.0	9.8	8.8	9.4	9.4	8.8
160.0	14.6	14.6	15.0	14.2	14.2	14.2	11.0	9.6	8.8	9.4	9.4	8.6
165.0	14.0	14.0	14.4	13.8	13.6	13.6	10.8	9.6	8.6	9.4	9.4	8.6
170.0	13.4	13.4	13.6	13.2	13.2	13.2	10.6	9.4	8.6	9.4	9.4	8.6
175.0	12.6	12.6	13.0	12.4	12.4	12.8	10.4	9.4	8.6	9.4	9.2	8.6
180.0	11.8	11.8	12.4	12.0	12.0	12.2	10.4	9.2	8.6	9.4	9.2	8.6
185.0	11.0	11.0	11.6	11.4	11.4	11.8	10.2	9.2	8.6	9.4	9.2	8.4
190.0	10.4	10.4	11.0	10.8	10.8	11.2	10.0	9.0	8.6	9.4	9.0	8.4
195.0	9.6	9.6	10.2	10.2	10.2	10.6	10.0	9.0	8.4	9.4	9.0	8.4
200.0	9.0	9.0	9.6	9.6	9.6	10.0	9.6	9.0	8.4	9.4	8.8	8.4
205.0	8.6	8.6	8.8	9.0	9.0	9.6	9.4	8.8	8.4	9.2	8.8	8.4
210.0	8.2	8.2	8.4	8.4	8.4	9.0	9.0	8.8	8.4	8.8	8.6	8.4
215.0	7.8	7.8	8.0	8.0	8.0	8.4	8.4	8.4	8.4	8.6	8.6	8.4
220.0	7.4	7.4	–	7.4	7.4	7.8	7.8	7.8	8.4	8.2	8.2	8.4
225.0	7.0	7.0	–	6.8	6.8	7.2	7.4	7.4	8.2	7.8	7.8	8.0
230.0	6.6	6.6	–	6.4	6.4	–	6.8	6.8	7.6	7.4	7.4	7.8
235.0	6.2	6.2	–	5.8	5.8	–	6.4	6.4	7.0	6.8	6.8	7.6
240.0	5.8	5.8	–	5.2	5.2	–	6.0	6.0	6.6	6.4	6.4	7.2
245.0	5.6	5.6	–	4.6	4.6	–	5.8	5.8	–	6.0	6.0	6.6
250.0	5.2	5.2	–	4.0	4.0	–	5.4	5.4	–	5.6	5.6	6.2
255.0	4.8	4.8	–	3.4	3.4	–	5.2	5.2	–	5.0	5.0	5.6
260.0	4.4	–	–	3.0	3.0	–	4.8	4.8	–	4.4	4.4	–
265.0	–	–	–	2.4	2.4	–	4.6	4.6	–	4.0	4.0	–
270.0	–	–	–	2.0	2.0	–	4.2	4.2	–	3.4	3.4	–
275.0	–	–	–	–	–	–	4.0	4.0	–	3.0	3.0	–
280.0	–	–	–	–	–	–	3.8	3.8	–	2.4	2.4	–
285.0	–	–	–	–	–	–	3.4	3.4	–	2.0	2.0	–

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Load charts

Hydraulic offsettable swingaway

Intermediate angle and loads for luffing



74,8 m -80 m
(245 ft - 263 ft)



12 m - 21 m
(39 ft - 69 ft)



54 500 kg
(120,100 lb)



27 ft 9 in spread
(100%)



360°



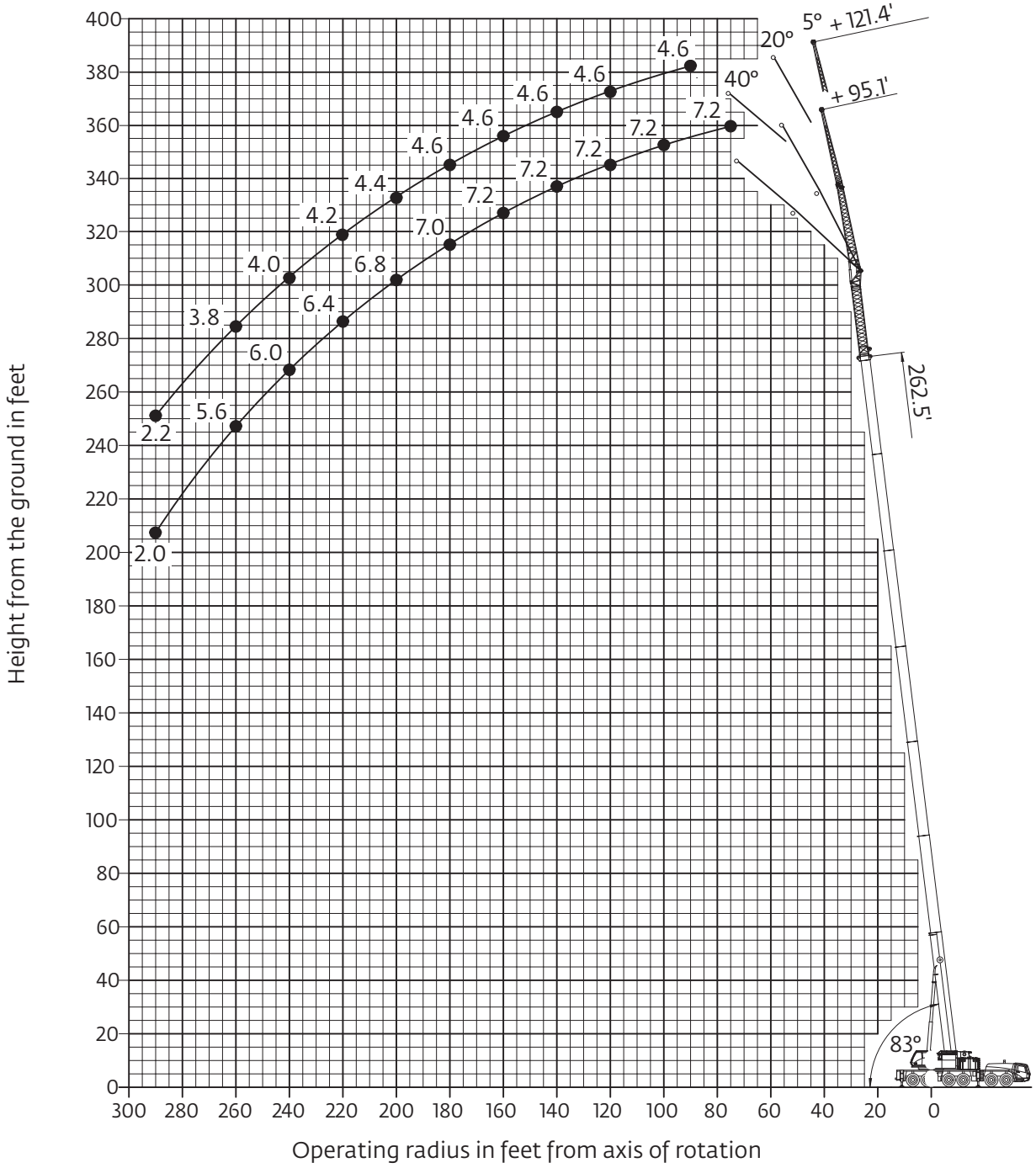


Pounds x 1000

Feet	245.3' + 39.4'			262.5' + 39.4'			245.3' + 68.9'			262.5' + 68.9'		
	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°
55.0	18.6	–	–	–	–	–	–	–	–	–	–	–
60.0	18.6	18.0	–	15.0	14.8	–	–	–	–	–	–	–
65.0	18.6	18.0	–	15.0	14.8	–	–	–	–	–	–	–
70.0	18.6	18.0	–	15.0	14.8	–	11.0	–	–	9.4	–	–
75.0	18.6	18.0	18.0	15.0	14.8	–	11.0	–	–	9.4	–	–
80.0	18.6	18.0	17.8	15.0	14.8	14.8	11.0	11.0	–	9.4	9.4	–
85.0	18.6	18.0	17.6	15.0	14.8	14.8	11.0	11.0	–	9.4	9.4	–
90.0	18.6	18.0	17.6	15.0	14.8	14.8	11.0	11.0	–	9.4	9.4	–
95.0	18.6	18.0	17.4	15.0	14.8	14.8	11.0	11.0	–	9.4	9.4	–
100.0	18.6	18.0	17.2	15.0	14.8	14.8	11.0	11.0	9.6	9.4	9.4	–
105.0	18.6	18.0	17.2	15.0	14.8	14.8	11.0	11.0	9.4	9.4	9.4	9.4
110.0	18.6	18.0	17.0	15.0	14.8	14.8	11.0	11.0	9.4	9.4	9.4	9.2
115.0	18.0	18.0	17.0	15.0	14.8	14.8	11.0	10.8	9.2	9.4	9.4	9.2
120.0	17.4	17.0	16.8	15.0	14.8	14.8	11.0	10.6	9.2	9.4	9.4	9.2
125.0	17.4	16.6	16.0	15.0	14.8	14.8	11.0	10.6	9.2	9.4	9.4	9.0
130.0	16.2	16.2	15.6	14.0	14.0	14.8	11.0	10.4	9.0	9.4	9.4	9.0
135.0	14.8	14.8	15.2	12.6	12.6	13.6	11.0	10.2	9.0	9.4	9.4	9.0
140.0	13.6	13.6	14.6	11.4	11.4	12.4	11.0	10.2	9.0	9.4	9.4	8.8
145.0	12.4	12.4	13.2	10.2	10.2	11.2	11.0	10.0	8.8	9.4	9.4	8.8
150.0	11.2	11.2	12.2	9.0	9.0	10.0	10.6	9.8	8.8	9.4	9.4	8.8
155.0	10.2	10.2	11.0	8.0	8.0	9.0	10.6	9.6	8.8	9.4	9.4	8.8
160.0	9.2	9.2	10.0	7.0	7.0	8.0	10.6	9.6	8.8	8.8	8.8	8.6
165.0	8.4	8.4	9.0	6.2	6.2	7.0	9.8	9.4	8.6	7.8	7.8	8.6
170.0	7.4	7.4	8.2	5.4	5.4	6.0	9.0	9.0	8.6	7.0	7.0	8.4
175.0	6.4	6.4	7.2	4.6	4.6	5.2	8.2	8.2	8.6	6.2	6.2	7.6
180.0	5.6	5.6	6.2	3.6	3.6	4.4	7.4	7.4	8.6	5.4	5.4	6.8
185.0	4.6	4.6	5.4	2.8	2.8	3.6	6.6	6.6	7.8	4.6	4.6	6.0
190.0	3.8	3.8	4.4	2.0	2.0	2.8	5.8	5.8	7.0	4.0	4.0	5.2
195.0	3.2	3.2	3.6	–	–	2.0	5.0	5.0	6.2	3.2	3.2	4.4
200.0	2.4	2.4	3.0	–	–	–	4.2	4.2	5.4	2.6	2.6	3.8
205.0	–	–	2.2	–	–	–	3.6	3.6	4.6	–	–	3.0
210.0	–	–	–	–	–	–	3.0	3.0	4.0	–	–	2.4
215.0	–	–	–	–	–	–	2.4	2.4	3.2	–	–	–
220.0	–	–	–	–	–	–	–	–	2.6	–	–	–
225.0	–	–	–	–	–	–	–	–	2.0	–	–	–

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263 ft main boom with 39 ft - 69 ft swingaway and 2 X 26 ft inserts



Hook heights shown in the working diagram do not consider loaded boom deflection.

Load chart

Hydraulic offsettable swingaway with inserts



74,8 m -80 m
(245 ft - 263 ft)



29 m - 37 m
(95 ft - 121 ft)



92 500 kg
(203,900 lb)



27 ft 9 in spread
(100%)



360˚





Pounds x 1000

Feet	245.3' + 95.1'			262.5' + 95.1'			245.3' + 121.4'			262.5' + 121.4'		
	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°
75.0	8.4	–	–	7.2	–	–	–	–	–	–	–	–
80.0	8.4	–	–	7.2	–	–	5.6	–	–	–	–	–
85.0	8.4	–	–	7.2	–	–	5.6	–	–	–	–	–
90.0	8.4	–	–	7.2	–	–	5.6	–	–	4.6	–	–
95.0	8.4	8.4	–	7.2	7.2	–	5.6	–	–	4.6	–	–
100.0	8.4	8.4	–	7.2	7.2	–	5.6	5.6	–	4.6	4.6	–
105.0	8.4	8.4	7.0	7.2	7.2	–	5.6	5.6	–	4.6	4.6	–
110.0	8.4	8.2	7.0	7.2	7.2	–	5.6	5.6	–	4.6	4.6	–
115.0	8.4	8.2	7.0	7.2	7.2	6.2	5.6	5.6	4.4	4.6	4.6	–
120.0	8.4	8.0	7.0	7.2	7.2	6.2	5.6	5.6	4.4	4.6	4.6	3.8
125.0	8.4	8.0	7.0	7.2	7.2	6.2	5.6	5.6	4.4	4.6	4.6	3.8
130.0	8.4	7.8	7.0	7.2	7.2	6.2	5.6	5.4	4.4	4.6	4.6	3.8
135.0	8.2	7.8	7.0	7.2	7.2	6.2	5.6	5.4	4.4	4.6	4.6	3.8
140.0	8.2	7.6	7.0	7.2	7.2	6.2	5.6	5.4	4.4	4.6	4.6	3.8
145.0	8.0	7.6	7.0	7.2	7.2	6.2	5.4	5.2	4.4	4.6	4.6	3.8
150.0	8.0	7.6	7.0	7.2	7.0	6.2	5.4	5.2	4.4	4.6	4.6	3.8
155.0	7.8	7.4	7.0	7.2	7.0	6.2	5.4	5.0	4.4	4.6	4.6	3.8
160.0	7.8	7.4	7.0	7.2	7.0	6.2	5.2	5.0	4.4	4.6	4.6	3.8
165.0	7.6	7.2	7.0	7.2	6.8	6.2	5.2	5.0	4.4	4.6	4.6	3.8
170.0	7.6	7.2	6.8	7.2	6.8	6.2	5.0	4.8	4.4	4.6	4.6	3.8
175.0	7.6	7.2	6.8	7.0	6.8	6.2	5.0	4.8	4.4	4.6	4.4	3.8
180.0	7.4	7.0	6.8	7.0	6.6	6.2	5.0	4.8	4.4	4.6	4.4	3.8
185.0	7.4	7.0	6.6	7.0	6.6	6.2	4.8	4.6	4.4	4.6	4.4	3.8
190.0	7.2	6.8	6.6	6.8	6.6	6.2	4.8	4.6	4.4	4.4	4.4	3.8
195.0	7.2	6.8	6.6	6.8	6.6	6.2	4.8	4.6	4.4	4.4	4.2	3.8
200.0	7.0	6.6	6.4	6.8	6.4	6.2	4.6	4.4	4.4	4.4	4.2	3.8
205.0	7.0	6.6	6.4	6.6	6.4	6.2	4.6	4.4	4.4	4.4	4.2	3.8
210.0	6.8	6.4	6.4	6.6	6.4	6.2	4.6	4.4	4.4	4.2	4.2	3.8
215.0	6.8	6.4	6.4	6.6	6.4	6.2	4.4	4.4	4.4	4.2	4.0	3.8
220.0	6.6	6.2	6.2	6.4	6.2	6.2	4.4	4.2	4.4	4.2	4.0	3.8
225.0	6.6	6.2	6.2	6.4	6.2	6.2	4.4	4.2	4.4	4.2	4.0	3.8
230.0	6.4	6.2	6.2	6.4	6.0	6.2	4.2	4.2	4.4	4.0	4.0	3.8
235.0	6.4	6.0	6.2	6.2	6.0	6.0	4.2	4.0	4.2	4.0	4.0	3.8
240.0	6.0	6.0	6.0	6.0	6.0	6.0	4.2	4.0	4.2	4.0	3.8	3.8
245.0	5.6	5.8	6.0	6.0	5.8	6.0	4.0	4.0	4.2	4.0	3.8	3.8
250.0	5.2	5.4	6.0	5.8	5.8	6.0	4.0	4.0	4.0	3.8	3.8	3.8
255.0	4.8	5.2	5.6	5.4	5.4	5.8	4.0	4.0	4.0	3.8	3.8	3.8
260.0	4.6	5.0	–	4.8	4.8	5.6	4.0	3.8	4.0	3.8	3.8	3.8
265.0	4.4	4.6	–	4.4	4.4	5.0	3.8	3.8	4.0	3.8	3.6	3.8
270.0	4.0	4.4	–	3.8	3.8	–	3.6	3.6	3.8	3.6	3.6	3.8
275.0	3.8	4.0	–	3.2	3.2	–	3.4	3.6	3.8	3.6	3.6	3.8
280.0	3.6	3.8	–	2.8	2.8	–	3.2	3.6	–	3.0	3.0	3.6
285.0	3.2	3.6	–	2.4	2.4	–	3.0	3.4	–	2.6	2.6	–
290.0	3.0	3.2	–	2.0	2.0	–	2.8	3.0	–	2.2	2.2	–
295.0	2.8	3.0	–	–	–	–	2.6	2.8	–	–	–	–
300.0	2.6	2.6	–	–	–	–	2.2	2.6	–	–	–	–
305.0	2.2	–	–	–	–	–	2.0	2.4	–	–	–	–
310.0	1.8	–	–	–	–	–	–	–	–	–	–	–

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.
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Load chart

Hydraulic offsettable swingaway with inserts


74,8 m -80 m
(245 ft - 263 ft)


29 m - 37 m
(95 ft - 121 ft)


54 500 kg
(120,900 lb)


27 ft 9 in spread
(100%)


360°




Pounds x 1000

Feet	245.3' + 95.1'			262.5' + 95.1'			245.3' + 121.4'			262.5' + 121.4'		
	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°	5°	5°- 20°	20°- 40°
75.0	8.4	–	–	7.2	–	–	–	–	–	–	–	–
80.0	8.4	–	–	7.2	–	–	5.6	–	–	–	–	–
85.0	8.4	–	–	7.2	–	–	5.6	–	–	–	–	–
90.0	8.4	–	–	7.2	–	–	5.6	–	–	4.6	–	–
95.0	8.4	8.4	–	7.2	7.2	–	5.6	–	–	4.6	–	–
100.0	8.4	8.4	–	7.2	7.2	–	5.6	5.6	–	4.6	4.6	–
105.0	8.4	8.4	7.0	7.2	7.2	–	5.6	5.6	–	4.6	4.6	–
110.0	8.4	8.2	7.0	7.2	7.2	–	5.6	5.6	–	4.6	4.6	–
115.0	8.4	8.2	7.0	7.2	7.2	6.2	5.6	5.6	4.4	4.6	4.6	–
120.0	8.4	8.0	7.0	7.2	7.2	6.2	5.6	5.6	4.4	4.6	4.6	3.8
125.0	8.4	8.0	7.0	7.2	7.2	6.2	5.6	5.6	4.4	4.6	4.6	3.8
130.0	8.4	7.8	7.0	7.2	7.2	6.2	5.6	5.4	4.4	4.6	4.6	3.8
135.0	8.2	7.8	7.0	7.2	7.2	6.2	5.6	5.4	4.4	4.6	4.6	3.8
140.0	8.2	7.6	7.0	7.2	7.2	6.2	5.6	5.4	4.4	4.6	4.6	3.8
145.0	8.0	7.6	7.0	7.2	7.2	6.2	5.4	5.2	4.4	4.6	4.6	3.8
150.0	8.0	7.6	7.0	7.2	7.0	6.2	5.4	5.2	4.4	4.6	4.6	3.8
155.0	7.8	7.4	7.0	7.2	7.0	6.2	5.4	5.0	4.4	4.6	4.6	3.8
160.0	7.8	7.4	7.0	7.2	7.0	6.2	5.2	5.0	4.4	4.6	4.6	3.8
165.0	7.4	7.2	7.0	7.2	6.8	6.2	5.2	5.0	4.4	4.6	4.6	3.8
170.0	7.4	7.0	6.8	7.0	6.8	6.2	5.0	4.8	4.4	4.6	4.6	3.8
175.0	7.4	7.0	6.8	6.2	6.2	6.2	5.0	4.8	4.4	4.6	4.4	3.8
180.0	7.2	6.8	6.6	5.4	5.4	6.2	5.0	4.8	4.4	4.6	4.4	3.8
185.0	6.6	6.6	6.6	4.8	4.8	6.0	4.8	4.6	4.4	4.6	4.4	3.8
190.0	6.0	6.0	6.6	4.0	4.0	5.2	4.6	4.4	4.4	4.0	4.0	3.8
195.0	5.2	5.2	6.4	3.4	3.4	4.6	4.6	4.4	4.4	3.4	3.4	3.8
200.0	4.6	4.6	5.8	2.8	2.8	4.0	4.6	4.4	3.6	2.8	2.8	3.8
205.0	4.0	4.0	5.0	2.2	–	3.2	4.0	4.0	3.0	2.2	2.2	3.4
210.0	3.4	3.4	4.4	–	–	2.6	3.4	3.4	2.4	–	–	2.6
215.0	2.6	2.6	3.8	–	–	2.0	2.8	2.8	–	–	–	2.2
220.0	2.0	2.0	3.0	–	–	–	2.4	2.4	–	–	–	–
225.0	–	–	2.4	–	–	–	–	–	–	–	–	–
230.0	–	–	1.8	–	–	–	–	–	–	–	–	–

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Superstructure

Boom
15,6 m - 80 m (51 ft - 263 ft) seven-section, MEGAFORM™ boom with TWIN-LOCK™ pinning. Maximum tip height: 83 m (272 ft).

*Hydraulic offsettable lattice extension
12 m - 21 m (39 ft – 69 ft) bi-fold lattice swingaway extension, hydraulically offsettable and luffing under load, 5°- 40°. Maximum tip height: 104 m (341 ft)

*Lattice inserts
2 x 8 m (26 ft) inserts for use with lattice swingaway extension to increase length to 37 m (121 ft). Maximum tip height: 120 m (394 ft)

Boom elevation
Single lift cylinder with safety valve provides boom angle from -1.5° to +83°.

Load moment and independent anti-two block system
Load moment and anti-two block system with audio/visual warning and control lever lockout provides electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.

Cab
Aluminum construction, full vision, hydraulically tilt-able up to 20°. Includes safety glass, adjustable operator's seat with suspension, engine-dependent hot water heater and secondary engine-independent diesel heater with timer. Armrest-integrated crane controls. Ergonomically arranged instrumentation and crane operating controls. Radio with bluetooth, USB and CD player.

Slewing
Three slewing gears with axial piston motors, planetary geared. Automatic brake with foot operated release switch for free slew. Speed is infinitely variable to 1.3 rpm.

Counterweight
54.5 t (120,100 lb) consisting of various sections with hydraulic installation/removal system controlled from the superstructure cab. *Optional counterweight package provides a maximum of 92.5 t (203,900 lb).

Hydraulic system
Two separate circuits, one axial piston variable displacement pump (load sensing) with electronic power limiting control for crane functions and one double gear pump for slewing. Thermostatically controlled oil coolers keep oil at optimum operating temperature. Hydraulic tank capacity: 1200 L (317 gal)

Engine
Mercedes-Benz OM936LA, diesel, 6-cylinders, water cooled, turbocharger, 210 kW (282 HP) at 2200 rpm. Max. torque: 1150 Nm (848 ft/lb) at 1200 rpm to 1600 rpm. Engine emission: Euromot 5 /EPA / CARB Tier 4 final (non road). Fuel tank capacity 300 L (79 gal)

Electrical system
3 phase alternator: 28V/80A; 2 batteries: 12V/170Ah

Hoist
Powered by axial piston motor with planetary gear and brake. Drum rotation indicator indicator alerts operator of hoist movement. Hoist camera and light included.

* Optional equipment
- Work lights, mounted on boom base section
- Boom position indicator light
- Boom removal kit
- Hook blocks/overhaul weight
- Auxiliary hoist – self rigging with counterweight
- Data logger
- 360° NYC swing lock
- 2 m (6.6 ft) side stowed heavy duty jib with 38 t (42 USt) maximum capacity using four parts of line, offset 8° and 30°
- Boom head camera

Carrier

Chassis
Special 6-axle chassis, all-welded torsion-resistant box type construction in high strength steel.

Outriggers
Four hydraulic two stage outrigger beams with vertical cylinders and outrigger pads. Independent horizontal and vertical movement controlled from each side of carrier and the operators cab. Electronic level indicator with automatic leveling system. Working light for each outrigger beam. Outrigger pad load indicator with read out on superstructure and carrier. Includes outrigger monitoring system.

Engine
Mercedes-Benz OM473LA,diesel, 6-cylinders, water cooled, turbocharger, 430 kW (585 HP) at 1700 rpm (80/1269/EWG - fan loose). Max. torque: 2750 Nm (2,030 ft/lb) at 1300 rpm. Engine emission: Euromot 5 / EPA / CARB Tier 4 final (non road). Fuel tank capacity: 500 L (132 gal)

Transmission
Allison automatic 4500 SP, 6 speeds forward, 1 reverse. Transverse differential locks. 2 speed transfer case with inter-axle differential lock.

Drive/Steer
12x6x12

Axle lines
6 axle lines. 1, 4 and 5 are driven steering axle lines, the 2nd, 3rd and 6th are steering axle lines.

Suspension
MEGATRAK®. All wheels with independent hydro-pneumatic suspension and hydraulic lockout. Longitudinal and transverse level control with automatic on-highway leveling system. Range +170 mm (6.7 in.) /-130 mm (-5.1 in.). Active suspension control on outrigger control units.

Tires
12 tires, 385/95 R25 (14.00 R25) (vehicle width – 3,00 m [9.8 ft])

Steering
Dual circuit, hydraulic power assisted steering with emergency steering pump. Axle lines 1, 2, 5 and 6 steer on highway (steer by wire). Separate electronic hydraulic (steer by wire) steering of the 3rd to 6th axle line for all wheel steering and crabbing.

Brakes
Service brake: pneumatic dual circuit, acting on all wheels, air dryer. Permanent brake: exhaust brake and constant throttle brake. Parking brake: pneumatically operated spring-loaded brake acting on axle lines 2, 4, 5 and 6.

Driver's Cab
Composite designed aluminum and fiber reinforced plastic, 2-man-design, safety glass, driver seat with pneumatic suspension, engine-dependent hot water heater and secondary engine-independent diesel heater with timer. Complete instrumentation and driving controls. Reversing camera system. Air conditioning. 12 V plug. Two strobe lights. Fire extinguisher. Radio with bluetooth, USB and CD player.

Electrical system
24V system with three phase alternator, 28V/100A; 2 batteries, 12V/170 Ah

* Optional equipment
- 12 tires, 445/95 R25 (16.00 R25) (vehicle width – 3,00 m [9.8 ft])
- 12 tires, 525/80 R25 (20.5 R25) (vehicle width – 3,10 m [10.2 ft])
- 12x8x12 drive/steer; (1, 4, 5 and 6 driven)
- Transmission integrated hydraulic retarder
- Aluminum Wheels
- Spare tire and wheel with carry bracket
- Removable rear outrigger box
- Trailer hitch

**Denotes optional equipment*

Symbols glossary


Axles


Counterweight


Grade


Gear


Boom


Drive


Heavy duty jib


Radius


Boom elevation


Electrical system


Hoist


Rotation


Boom extension


Engine


Hookblock


Speed


Boom length


Extension


Hydraulic system


Steering


Boom nose


Frame


Lights


Suspension


Brakes


Fuel tank capacity


Oil


Swing


Cab


Outriggers


Outrigger controls


Tires


Transmission

Notes

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