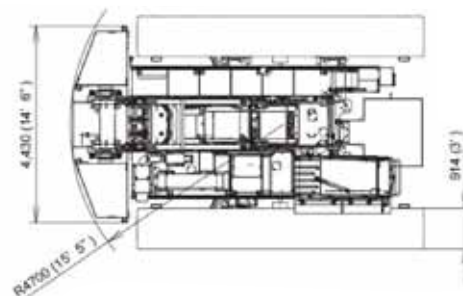
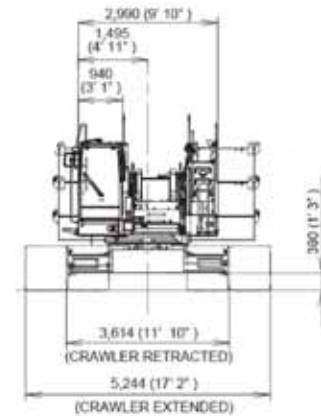
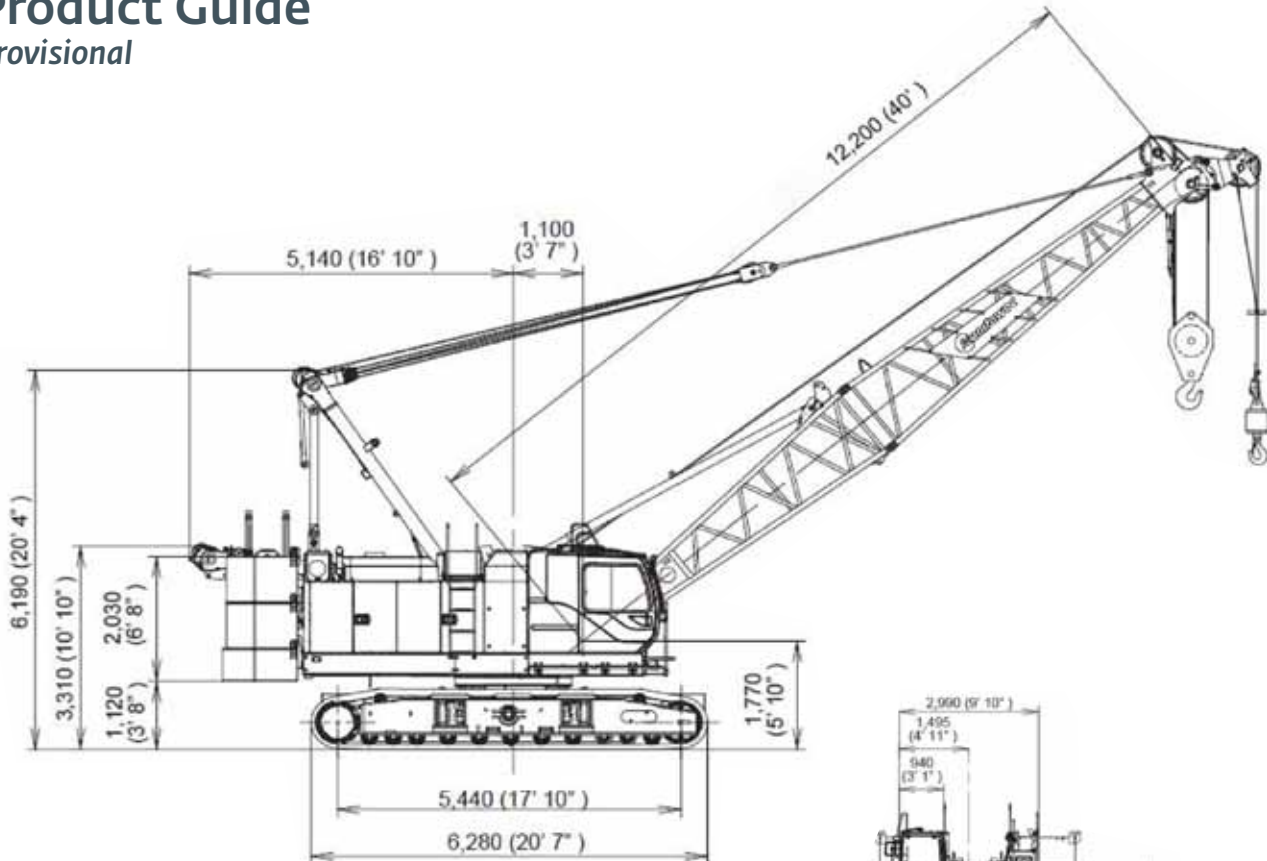




Maniowoc 11000-1

Product Guide

Provisional



Features

- 110 USt capacity
- 200 ft heavy-lift boom
- Max boom + jib combo: 190 ft + 60 ft
- 285 HP engine
- 535 fpm maximum line speed
- 25,200 lb rated line pull



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Specifications



Upperworks



Engine

Hino J08E-UV, 6 cylinder, water-cooled diesel, direct fuel injection with turbocharger, 213 kW (285 HP) at 2100 high-idle RPM. Maximum torque 1017 N•m (750 lb•ft) net at 1,600 rpm.

Emission standard: Interim Tier 4/Stage IIIB.

One diesel fuel tank, 400 liters (105 gallons) capacity.

Two 12 volt 136 AH capacity batteries, 24 volt system and 90 amp alternator.

All wiring harnesses and connectors are numbered for easier servicing. Machine is equipped with individual fused branch circuits.

Relief valve pressures:

Load hoist, boom hoist, propel system 31.9 MPa
..... (4,630 psi)

Swing system: 27.5 MPa (3,989 psi)

Control system: 7.0 MPa (1,015 psi)



Controls

Full-flow hydraulic control system for constant variable pressure to front and rear drums, boom hoist brakes and clutches. Controls respond instantly to the touch, delivering smooth function operation.



Hydraulic system

All three variable displacement piston-type pumps are driven by a heavy-duty pump drive. One of these pumps is used in the left propel circuit and hook hoist circuit, and can accommodate an optional third circuit. Another is used in the right propel circuit, boom hoist circuit and hook hoist circuit. The third variable displacement pump is used in the swing circuit. In addition, two gear pumps are used in the control system and auxiliary equipment, and two gear pumps serve the brake cooling system.

Maximum pressure rating 31.9 MPa (4,630 psi)

Load hoist, boom hoist and propel . . . 2 Piston pumps
Swing 1 Piston pump

Control system and auxiliary 2 Gear pumps

Brake cooling system 2 Gear pumps

Reservoir capacity: 440 liter (116 US gallon)

Cooling: oil-to-air heat exchanger

Filtration: full-flow and bypass type with replaceable paper elements.



Drums

Front and rear drums for load hoist powered by variable displacement piston-type motors, driven through planetary reducers. Powered hoisting/lowering and free-fall operation is standard. Drum turn indicators for front and rear drums are also standard.

Drums: (front and rear) 614 mm (24.2") P.C.D. x 617 mm (24.3") wide drums, grooved for 26.0 mm wire rope.

Brakes: Counterbalance valve and spring set hydraulically released multiple disk brake mounted on hoist motor. External ratchet is fitted for locking drum.

Wire rope capacity:

Front drum 235 m (771 ft) working length

Rear drum 160 m (525 ft) working length

Line speed: Single line on the first drum layer

Hoisting: 120m/min (390 ft/min)

Lowering: 120m/min (390 ft/min)

▶ **Optional third drum:** grooved for 22 mm wire rope; free-fall is optional.

Wire rope working length 145m (476').



Swing system

Swing unit: Powered by a hydraulic piston-type motor driving spur gears through planetary reducers, the swing system provides 360° rotation.

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

Swing lock: 4-Position lock for transportation.

Rotating bed turntable: Single-row ball bearing with an integral internally cut swing gear.

Swing speed: 4.0 rpm



Boom support system

Single drum powered by a hydraulic axial piston motor through a planetary reducer.

Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor. An external ratchet is fitted for locking the drum.

Drum: Single drum, grooved for 16 mm diameter wire rope. Boom hoist reeving is 12-part line.

Wire Rope Capacity:

Drum 150 m (492 ft) working length.



Specifications

Line speed: Single line on first drum layer.

Hoisting 70m/min (230 ft/min)

Lowering 70m/min (230 ft/min)



Gantry

This high folding type gantry is fitted with a sheave frame for boom hoist reeving. It provides full up, full down positions.



Counterweight

Upper weight (5 pieces): 31,300 kg (69,000 kg)

Carbody weight (2 pieces): 14,400 kg (31,750 lb)



Operator's cab

Totally enclosed, full vision cab fitted with tinted safety glass and opening front window. A fully adjustable, highbacked seat with arm rests. Short handle control levers; electronic twist grip hand throttle. Joystick controls are optional. An air conditioner, a signal horn and windshield wiper are standard.

Lights:

2 - Front flood lights

1 - Cab inside light

Safety device

New easy to read at a glance LMI and maintenance display.

Lowerworks



Carbody

The durable carbody features steel welded construction with extendible axles.



Crawlers

Crawler assemblies can be hydraulically extended for wide-track operation or retracted for transportation.

Crawler belt tension adjusted with hydraulic jack and maintained by shims between idler block and frame.

The 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 gearbox. Hydraulic motor and gear box are built into the crawler side frame within the shoe

width. The track rollers are sealed for maintenance-free operation.

Crawler brakes: multiple disk type, spring set hydraulically released parking brakes are built into each propel drive.

Crawler shoes

914 mm (36") wide crawler.

Travel speed

(High/Low) 1.73/1.2 km/h (1.07/0.71 mph)

Attachments



Boom

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

Two idler sheaves and three point sheaves are standard.

Basic boom length 12,2 m (40'). Basic boom consists of the boom butt 5,8 m (19') and boom top 6,39 m (21').

Optional boom inserts are welded lattice construction with tubular, high-tensile steel chords and pin connections on each one of 3,0 m (10'), 6,1 m (20') and 12,2 m (40') inserts.

Maximum total length of boom 61,0 m (200').



Fixed jib

The optional fixed jib employs welded lattice construction with tubular, high-tensile steel chords with pin connections between sections.

Basic jib length 9,14 m (30'). Basic jib length consists of jib butt section 4,57 m (15') and jib top 4,57 m (15').

Optional jib boom inserts of 3,0 m (10'), 6,1 m (20') are available for extension capabilities up to 18 m (60').

Maximum total length of boom and jib 57,9 m (190') + 18 m (60') is 76,2 m (250').

Tool and accessories

A set of tools and accessories are furnished.

Optional Equipment

Optional: Blocks and hooks each with roller bearing sheaves grooved for 26.0 mm diameter wire rope, and roller bearing swivel with hook latch.

Specifications



- ▶ 15 USt ball hook, 1,310 lb wedge socket for 26 mm wire rope.
- ▶ 35 t hook block, 700 kg with one 617 mm Nominal O.D. roller bearing sheave.
(40 USt hook block, 2,311 lb with three 24" Nominal O.D. roller bearing sheaves.)
- ▶ 70 t hook block, 900 kg, three 617 mm Nominal O.D. roller bearing sheaves.
(75 USt hook block, 3,820 lb, with four 24" Nominal O.D. roller bearing sheaves.)
- ▶ 90 t hook block, 1 300 kg, with four 617 mm Nominal O.D. roller bearing sheaves.
(110 USt hook block, 2,946 lb with four 24" Nominal O.D. roller bearing sheaves.)
- ▶ Optional: Detachable upper boom point with one 575 mm Nominal outer diameter roller bearing steel sheave grooved for 26mm rope for liftcrane.
- ▶ Machine inclination sensor.
- ▶ Swing angle detection and angle limiter.
- ▶ Counterweight detection.
- ▶ Hydraulic tagline.
- ▶ External lamp for overload alarm.

Working weight

Approximately 90,000 kg (198,500 lb) including upperworks and lowerworks, full upper counterweights, full carbody counterweights, and 12,2 m (40') basic boom.

Ground pressure

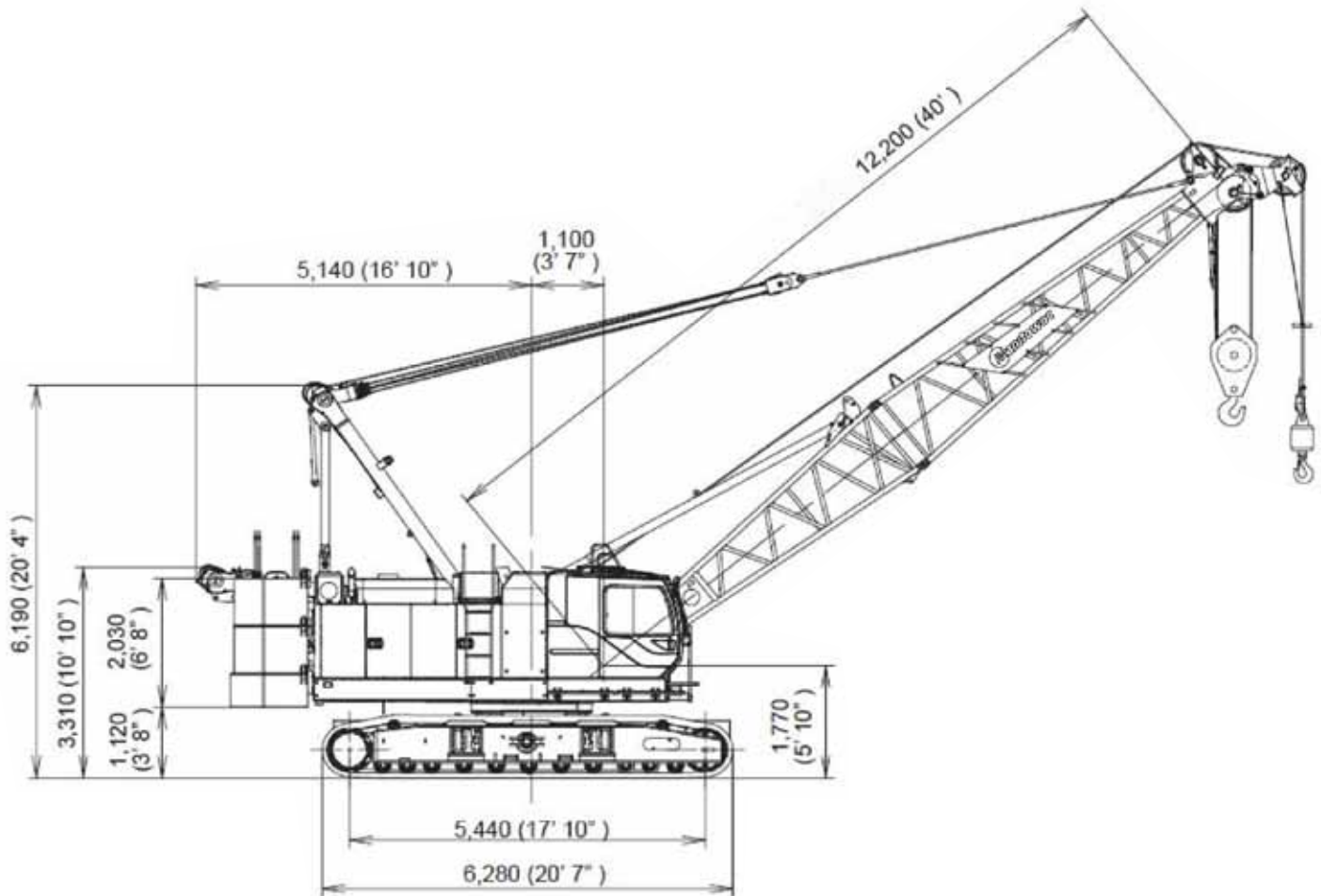
Approximately 88.8 kPa (12.9 psi) with basic boom and no load.

Gradeability

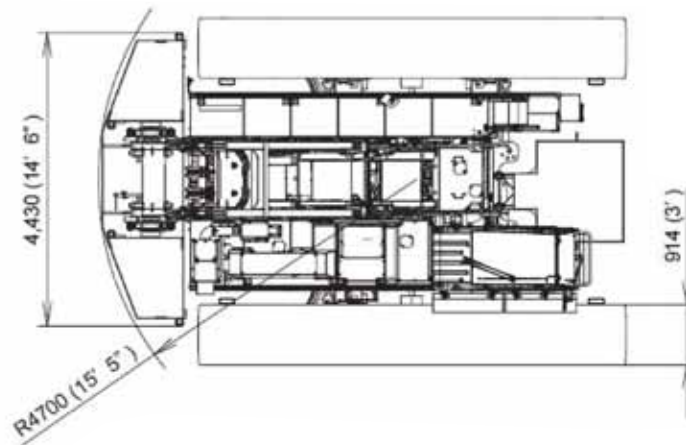
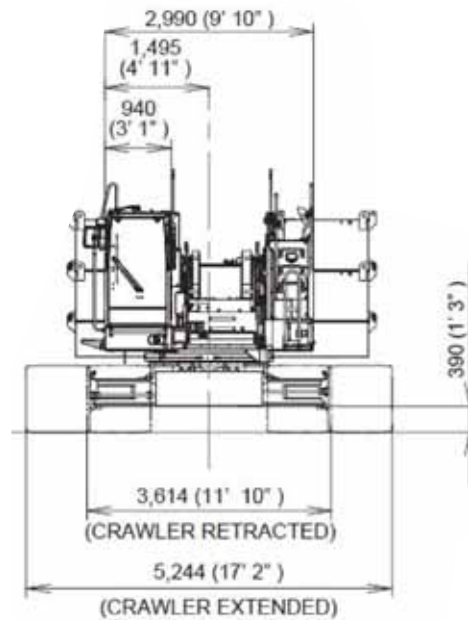
With basic boom: 40%.



Specifications

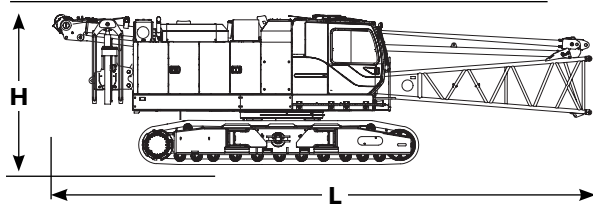


Outline dimensions



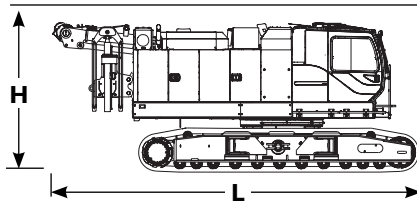


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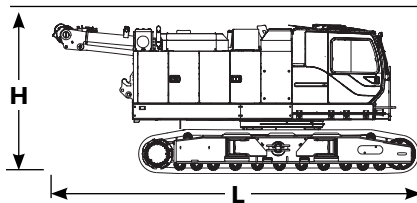
Upperworks		x 1
Length	12,09 m	39' 8"
Width	3,61 m	11' 10"
Height	3,32 m	10' 11"
Weight	43 150 kg	95,128 lb

Note: Weight includes base machine, crawler, gantry, maximum hoist and whip lines on drums, boom butt, full hydraulic fluid reservoir, and one third tank of fuel.



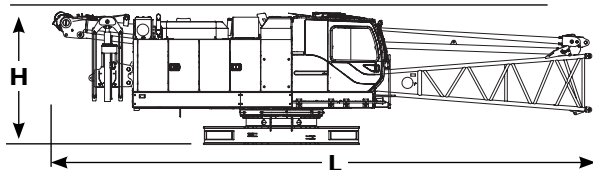
Upperworks		x 1
Length	8,21 m	26' 11"
Width	3,61 m	11' 10"
Height	3,32 m	10' 11"
Weight	41 090 kg	90,586 lb

Note: Weight includes base machine, crawler, gantry, maximum hoist and whip lines on drums, full hydraulic fluid reservoir, and one third tank of fuel.



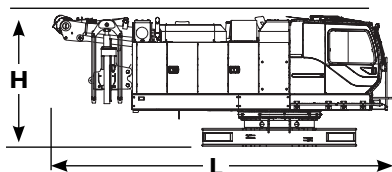
Upperworks		x 1
Length	8,21 m	26' 11"
Width	3,61 m	11' 10"
Height	3,32 m	10' 11"
Weight	40 220 kg	88,668 lb

Note: Weight includes base machine, crawler, gantry, maximum hoist and whip lines on drums without self-removal unit, full hydraulic fluid reservoir, and one third tank of fuel.



Upperworks without crawlers		x 1
Length	12,09 m	39' 8"
Width	2,99 m	9' 10"
Height	2,93 m	9' 8"
Weight	27 870 kg	61,442 lb

Note: Weight includes base machine, gantry, maximum hoist and whip lines on drums, boom butt, full hydraulic fluid reservoir, and one third tank of fuel.

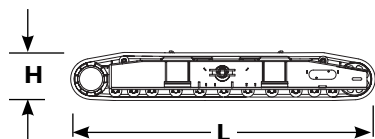


Upperworks without crawlers		x 1
Length	7,70 m	25' 3"
Width	2,99 m	9' 10"
Height	2,93 m	9' 8"
Weight	25 810 kg	56,900 lb

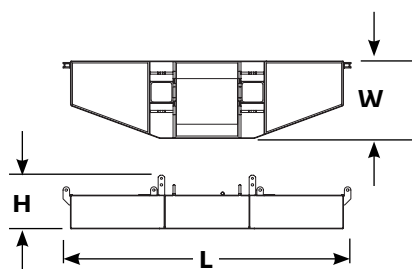
Note: Weight includes base machine, gantry, maximum hoist and whip lines on drums, full hydraulic fluid reservoir, and one third tank of fuel.

► Option

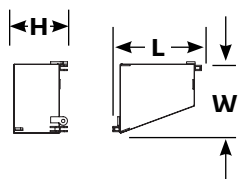
Outline dimensions



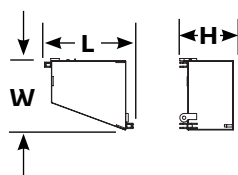
Crawlers		x 2
Length	6,28 m	20' 7"
Width	0,91 m	3' 0"
Height	0,98 m	3' 3"
Weight	7 640 kg	16,843 lb



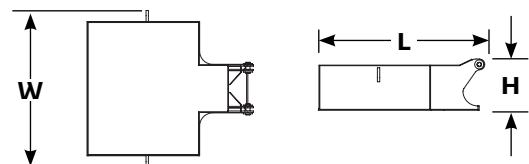
Upper counterweight		x 1
Length	4,43 m	14' 6"
Width	1,19 m	3' 11"
Height	0,83 m	2' 9"
Weight	8 310 kg	18,320 lb



Upper counterweight (R)		x 2
Length	1,45 m	4' 9"
Width	1,17 m	3' 10"
Height	0,88 m	2' 11"
Weight	5 750 kg	12,677 lb



Upper counterweight (L)		x 2
Length	1,45 m	4' 9"
Width	1,17 m	3' 10"
Height	0,88 m	2' 11"
Weight	5 750 kg	12,677 lb

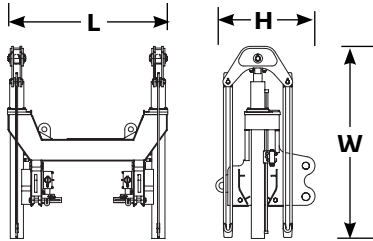


Carbody counterweight		x 2
Length	1,90 m	6' 3"
Width	1,79 m	5' 10"
Height	0,59 m	1' 11"
Weight	7 200 kg	15,873 lb

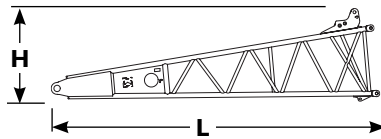
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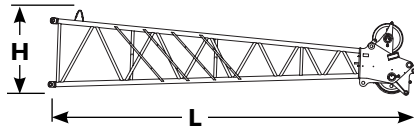
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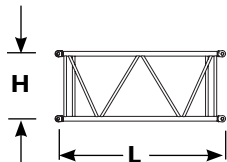
Self removal unit		x 1
Length	1,59 m	5' 3"
Width	1,90 m	6' 3"
Height	0,98 m	3' 3"
Weight	870 kg	1,918 lb



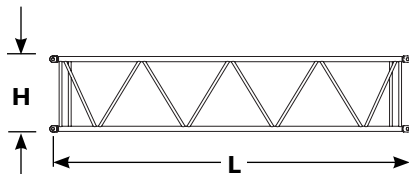
Boom butt 5,8 m (19')		x 1
Length	5,97 m	19' 7"
Width	1,49 m	4' 11"
Height	1,70 m	5' 7"
Weight	1 475 kg	3,252 lb



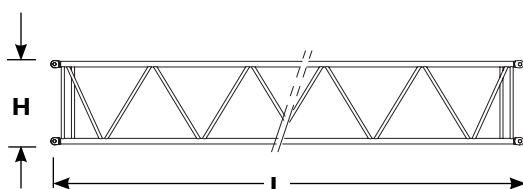
Boom top 6,4 m (21')		x 1
Length	6,91 m	22' 8"
Width	1,50 m	4' 11"
Height	1,31 m	4' 4"
Weight	1 170 kg	2,580 lb



Boom insert 3,0 m (10')		x 1,2
Length	3,16 m	10' 4"
Width	1,49 m	4' 11"
Height	1,31 m	4' 4"
Weight	310 kg	685 lb



Boom insert 6,10 m (20')		x 1,2
Length	6,21 m	20' 5"
Width	1,49 m	4' 11"
Height	1,31 m	4' 4"
Weight	520 kg	1,145 lb

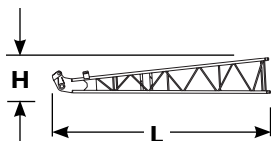


Boom insert 12,2 m (40')		x 1,2,3
Length	12,31 m	40' 5"
Width	1,49 m	4' 11"
Height	1,31 m	4' 4"
Weight	960 kg	2,115 lb

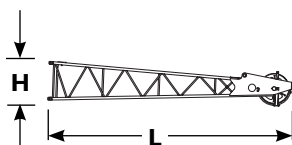
Note: Use one "A" type insert with lug required for any boom combinations that require a 12,2 m (40') insert.

Option

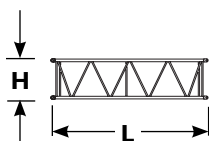
Outline dimensions



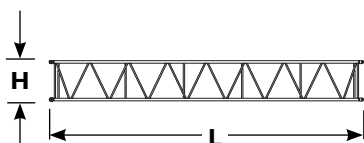
Fixed jib butt	x 1	
Length	4,81 m	15' 9"
Width	0,80 m	2' 8"
Height	0,80 m	2' 8"
Weight	200 kg	440 lb



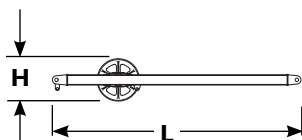
Fixed jib top	x 1	
Length	5,00 m	16' 5"
Width	0,79 m	2' 7"
Height	0,80 m	2' 8"
Weight	280 kg	617 lb



Fixed jib insert 3,0 (10')	x 1	
Length	3,11 m	10' 2"
Width	0,80 m	2' 8"
Height	0,80 m	2' 8"
Weight	100 kg	220 lb



Fixed jib insert 6,1 m (20')	x 1	
Length	6,16 m	20' 3"
Width	0,80 m	2' 8"
Height	0,80 m	2' 8"
Weight	180 kg	395 lb



Fixed jib strut	x 1	
Length	3,62 m	11' 11"
Width	0,84 m	2' 9"
Height	0,62 m	2' 0"
Weight	250 kg	550 lb

Option



Winch performance data

Line pull		
	Rated line pull kg (lb)	*Maximum line pull kg (lb)
Front drum	11 420 (25,200)	21,200 (46,800)
Rear drum	11 420 (25,200)	21,200 (46,800)
Optional 3rd drum	7700 (17,700)	15,600 (34,400)

* Maximum line pull is not based on wire rope strength.

Wire rope specifications				
Use	Specs	Diameter mm	Working length m (ft)	Breaking strength kg (lb)
Front drum	IWRC C/O 6 X Fi (29)	26,0	235 (771)	54 430 (120,000)
Rear drum	IWRC C/O 6 X Fi (29)	26,0	160 (525)	54 430 (120,000)
Boom hoist drum	IWRC C/O 6 X Fi (31)	16,0	150 (492)	21 410 (47,200)
Optional 3rd drum	IWRC C/O 6 X Fi (29)	22,0	145 (476)	37 00 (81,600)

Front and rear winch						
Layer		Line speed m/min (ft/min)				
		1	2	3	4	5
Single line pull kg (lb)						
Rated line pull	0 (0)	125 (410)	133 (436)	142 (466)	151 (495)	160 (525)
	2 268 (5,000)	124 (406)	132 (434)	141 (463)	150 (492)	159 (522)
	4 536 (10,000)	108 (355)	108 (355)	108 (355)	108 (355)	108 (355)
	6 804 (15,000)	72 (237)	72 (237)	72 (237)	72 (237)	72 (237)
	9 072 (20,000)	54 (177)	54 (177)	54 (177)	54 (177)	54 (177)
	11 340 (25,000)	43 (142)	43 (142)	43 (142)	43 (142)	43 (142)
	13 608 (30,000)	36 (118)	36 (118)	36 (119)	38 (126)	41 (133)
	15 876 (35,000)	32 (104)	34 (111)	36 (118)	38 (125)	—
	18 144 (40,000)	32 (104)	34 (111)	—	—	—

NOTE: Line speeds and line pull based on single line.
Line pulls are not based on wire rope strength.

Load chart notes



- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- Capacities do not exceed 75% of minimum tipping loads. Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts located in the operator's crane cab.
- The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals. If these manuals are missing, obtain replacements. Boom backstops are required for all boom lengths. Gantry must be in the fully raised position for all operations. Crawlers must be fully extended and be locked in position. The crane must be leveled to within 1% on a firm supporting surface.
- Do not attempt to lift where no radius or load is listed as crane may tip or collapse.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.
- Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- When lifting over boom point with jib or upper boom point installed, rated loads for the boom must be deducted as shown below.

Jib length m (ft)	Upper boom point	9,1 (30)	12,2 (40)	15,2 (50)	18,3 (60)
Deduct kg (lb)	200 (420)	1100 (2,500)	1500 (3,700)	2 000 (5,100)	2 400 (6,700)

When lifting over luffing jib point with luffing jib roller assembly or pin connected boom point sheave (on the luffing boom top) attached, rated loads for the jib and sheave must be deducted as shown below.

	Luffing jib point roller	Pin connected boom point sheave
Deduct kg (lb)	400 (850)	200 (480)

- The total load that can be lifted by the fixed jib is limited by rated jib loads. The total load that can be lifted with the upper boom point is limited by rated auxiliary sheave loads.

- Boom lengths for fixed jib mounting are 24,4 m (80 ft) to 57,9 m (190 ft).
- The total load that can be lifted by the upper boom point is: the rated load for the boom (without upper boom point installed) minus 191 kg (420 lb); however, the upper boom point rated load should not exceed 10 900 kg (24,000 lb).
- An upper boom point cannot be used on a 61 m (200 ft) boom length.
- The boom should be erected over the front of the crawlers, not laterally. When erecting and lowering the boom with a length of 57,9 m (190 ft) with jib, blocking must be placed at the end of the crawlers. See operator's manual for details.
- Least stable position is over the side.
- Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum load for main boom

No. of parts of line	1	2	3	4	5
Maximum loads kg (lb)	11 430 (25,200)	22 861 (50,400)	34 292 (75,600)	45 722 (100,800)	57 153 (126,000)

No. of parts of line	6	7	8
Maximum loads kg (lb)	68 583 (151,200)	80 014 (176,400)	99 790 (220,000)

Maximum load for fixed jib

No. of parts of line	1
Maximum loads kg (lb)	10 800 (24,000)

Maximum load for upper boom point

No. of parts of line	1
Maximum loads kg (lb)	10 900 (24,000)

- Lifting capacities listed apply only to the machine as originally manufactured for and supplied by Manitowoc Cranes, Inc. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
- Designed and rated to comply with ANSI Code B30.5.

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



Boom combinations

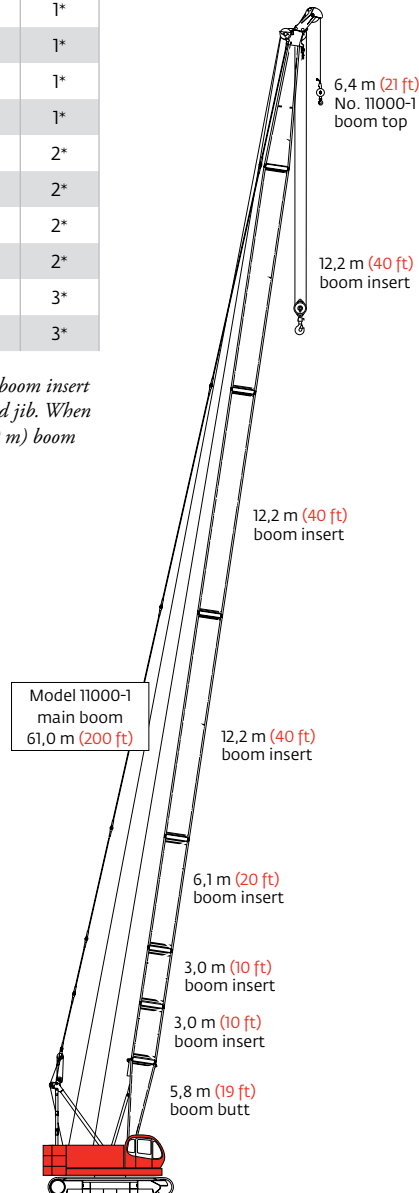
No. 11000-1 heavy-lift boom combinations

Boom length m (ft)	Boom inserts		
	3,1 m (10 ft)	6,1 m (20 ft)	12,2 m (40 ft)
12,2 (40)	—	—	—
15,2 (50)	1	—	—
18,3 (60)	2	—	—
21,3 (70)	1	1	—
24,4 (80)	2	1	—
27,4 (90)	1	2	—
30,5 (100)	2	2	—
33,5 (110)	1	1	1*
36,6 (120)	2	1	1*
39,6 (130)	1	2	1*
42,7 (140)	2	2	1*
45,7 (150)	1	1	2*
48,8 (160)	2	1	2*
51,8 (170)	1	2	2*
54,9 (180)	2	2	2*
57,9 (190)	1	1	3*
61,0 (200)	2	1	3*

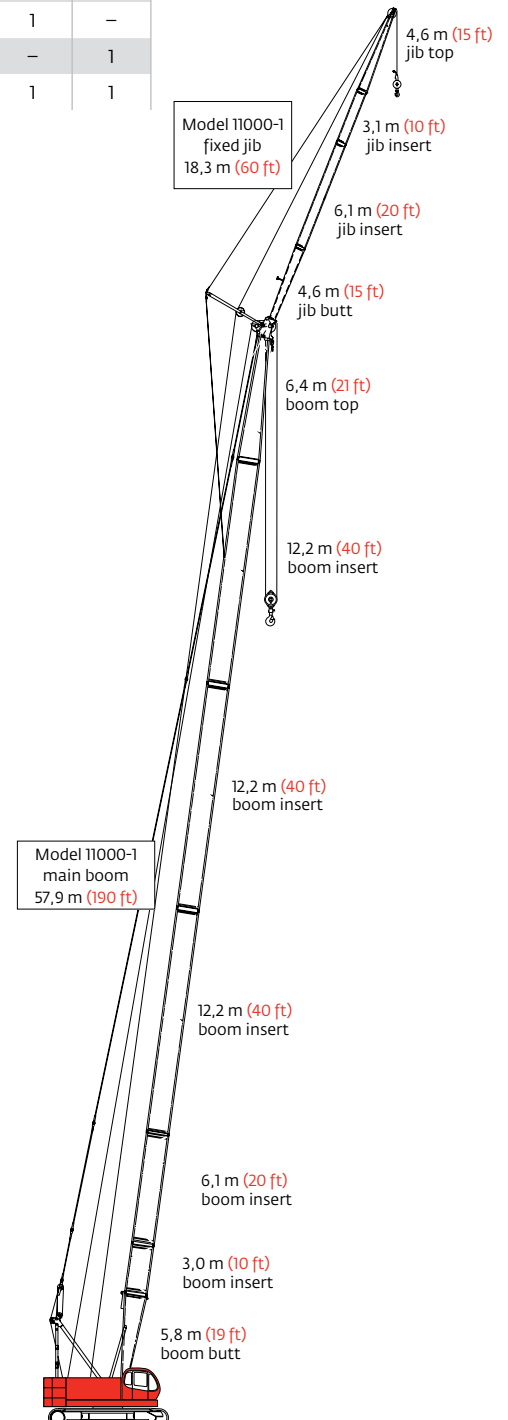
* NOTE: One 40 ft (12,20 m) boom insert with lug 40A is required for fixed jib. When no jib is installed a 40 ft (12,20 m) boom can be used instead of 40A.

No. 11000-1 fixed jib combinations

Fixed jib length m (ft)	Fixed jib inserts	
	3,1 m (10 ft)	6,1 m (20 ft)
9,1 (30)	—	—
12,2 (40)	1	—
15,2 (50)	—	1
18,3 (60)	1	1



Model 11000-1
Main boom 61,0 m (200 ft)

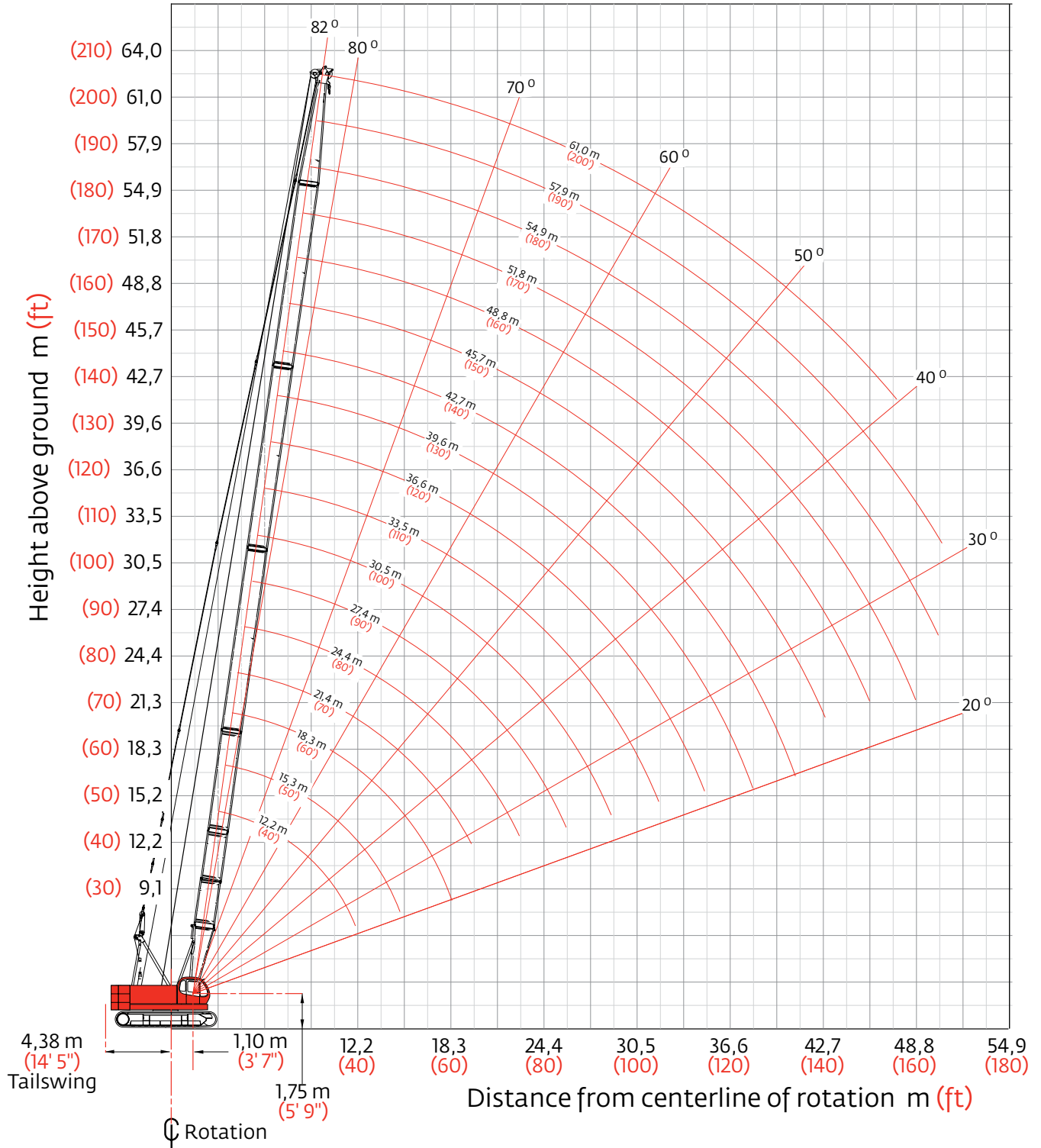


Model 11000-1
Fixed jib on main boom
76,2 m (250 ft)

Heavy-lift boom range diagram



No. 11000-1 main boom





Heavy-lift boom load charts

Model 11000-1 liftcrane boom capacities – 11000-1 main boom

69,000 lb upper counterweight + 31,750 lb carbody counterweight

360° Rating

lb x 1 000

Boom ft	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
Radius																	
11	220.0*																
12	213.3*	213.2*															
14	188.1*	187.8*	187.4*														
16	165.5*	165.3*	164.8*	151.0*	151.0*												
18	147.8*	147.4*	146.9*	146.7*	146.5*	125.8*											
20	132.8	132.4	132.2	132.2	131.8	124.0	123.6*	100.8*									
24	101.3	101.0	100.8	101.3	101.0	100.8	100.6	96.5*	94.2*	85.1*	72.9*						
28	80.9	80.7	80.5	80.8	80.5	80.5	80.2	80.2	79.9	78.2*	70.8*	61.3*	50.2*				
34	61.7	62.0	61.6	62.0	61.6	61.6	61.3	61.3	61.1	60.9	60.5	57.2*	49.2*	43.2*	38.2*	33.8*	30.3*
40	45.9*	49.8	49.3	49.8	49.3	49.3	48.9	48.9	48.7	48.4	48.2	48.0	46.6*	41.2*	36.4*	32.2*	28.7*
44		44.3	43.8	44.1	43.8	43.7	43.4	43.4	43.0	42.8	42.6	42.4	42.1*	40.0*	35.1*	31.1*	27.7*
55			32.9	33.2	32.7	32.5	32.3	32.3	32.0	31.6	31.4	31.2	31.4	31.2	30.8*	28.1*	24.9*
75					22.1	21.8	21.4	21.4	21.2	20.9	20.5	20.3	20.5	20.3	19.9	19.9	18.5*
95							15.8	15.6	15.3	15.0	14.6	14.4	14.5	14.3	14.0	13.9	13.5
110									12.6	12.1	11.9	11.7	11.7	11.5	11.1	11.0	10.6
120										10.8	10.3	10.3	10.1	9.8	9.6	9.4	9.2
130											9.2	8.9	8.9	8.7	8.5	8.2	7.8
140												8.0	7.9	7.7	7.4	7.2	6.5
150													7.1	6.8	6.5	6.3	5.2
160														5.9	5.6	5.3	
165															5.1	4.6	

*Rated loads based on factors other than machine stability such as structural competence.

Meets ANSI B30.5 Requirements – Capacities do not exceed 75% of static tipping load.

NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

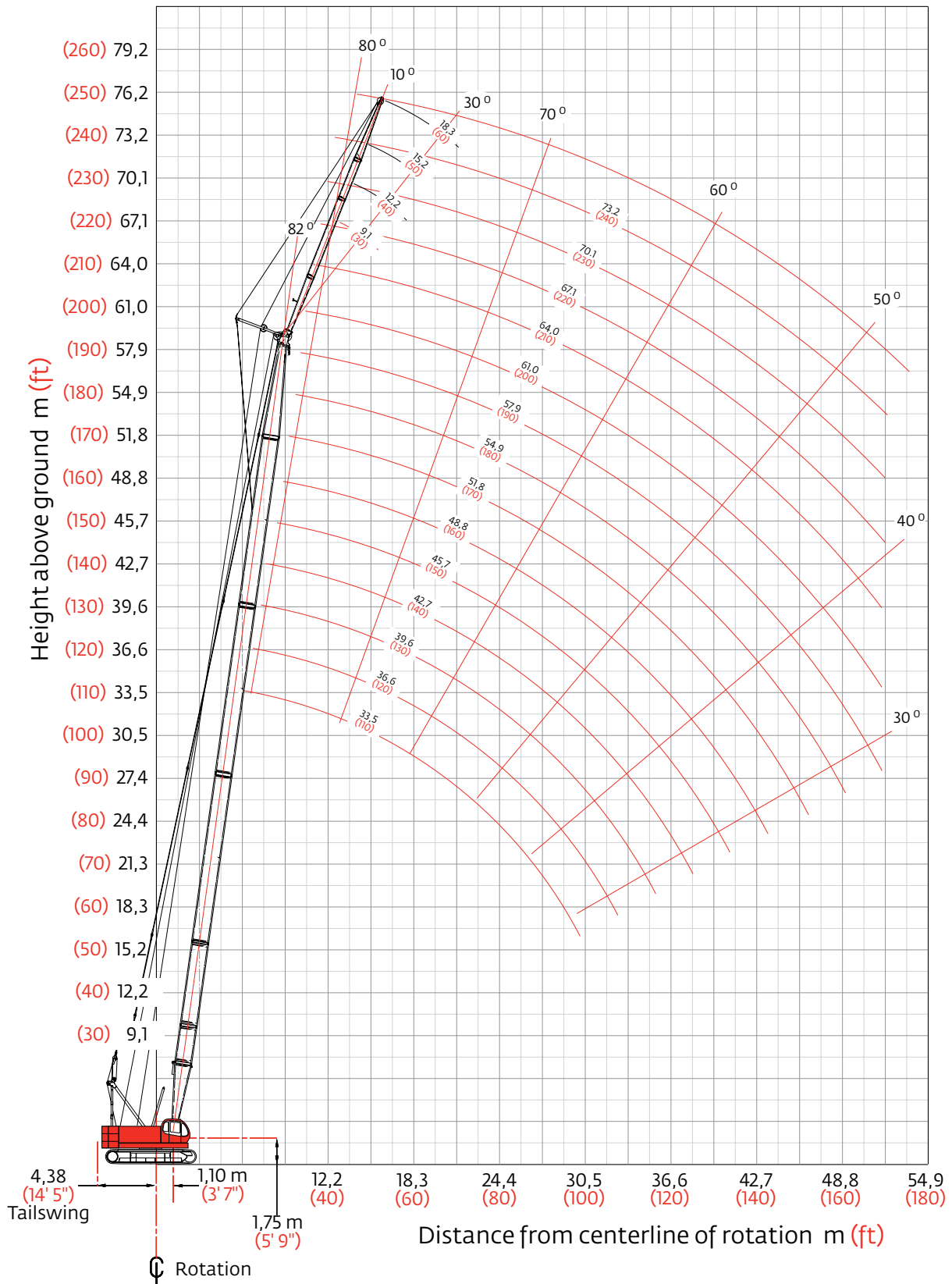
For complete chart, refer to www.cranelibrary.com.

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Fixed jib range diagram



No. 11000-1 fixed jib on main boom



PROVISIONAL



Fixed jib load charts

Model 11000-1 liftcrane jib capacities

No. 11000-1 fixed jib on main boom

28 800 kg (63,500 lb) upper counterweight, 7 300 kg (16,100 lb) carbody counterweight crawler extended

360° Rating

kg (lb) x 1 000

10° offset

30° offset

Jib 9,1 m (30 ft)	Boom m (ft)	24,4 (80)	30,5 (100)	39,6 (130)	48,8 (160)	57,9 (190)
	Radius					
	10,0 (30)	10,8 (24.0)				
	12,0 (40)	10,8 (24.0)	10,8 (24.0)	10,8 (24.0)		
	14,0 (50)	10,8 (24.0)	10,8 (24.0)	10,8 (24.0)	10,8 (24.0)	— (19.4)
	18,0 (60)	10,8 (24.0)	10,8 (24.0)	10,8 (24.0)	10,7 (23.7)	8,4 (18.6)
	24,0 (80)	8,0 (17.3)	7,8 (16.8)	7,4 (16.1)	7,2 (15.5)	6,9 (14.8)
	30,0 (100)	5,9 (12.8)	5,7 (12.2)	5,3 (11.5)	5,0 (10.9)	4,7 (10.2)
	36,0 (120)		4,5 (—)	3,9 (8.5)	3,7 (7.9)	3,3 (7.2)
	42,0 (140)			2,9 (6.1)	2,7 (5.8)	2,3 (4.8)

Jib 9,1 m (30 ft)	Boom m (ft)	24,4 (80)	30,5 (100)	39,6 (130)	48,8 (160)	57,9 (190)
	Radius					
	10,0 (30)					
	12,0 (40)	9,5 (21.0)				
	14,0 (50)	9,2 (19.5)	9,4 (20.6)	— (21.0)		
	18,0 (60)	8,0 (17.5)	8,5 (18.6)	9,2 (20.1)	9,5 (21.0)	8,2 (18.2)
	24,0 (80)	6,7 (14.8)	7,3 (15.9)	7,6 (16.6)	7,4 (16.0)	7,2 (15.5)
	30,0 (100)		6,0 (—)	5,4 (11.8)	5,2 (11.2)	4,9 (10.6)
	36,0 (120)				3,8 (8.2)	3,5 (7.5)
	42,0 (140)					2,4 (5.2)

Jib 12,2 m (40 ft)	Boom m (ft)	24,4 (80)	30,5 (100)	39,6 (130)	48,8 (160)	57,9 (190)
	Radius					
	10,0 (30)	10,8 (—)	10,8 (—)			
	12,0 (40)	10,8 (24.0)	10,8 (24.0)	10,8 (—)		
	14,0 (50)	10,8 (24.0)	10,8 (24.0)	10,8 (24.0)	10,8 (24.0)	
	18,0 (60)	9,5 (20.7)	10,6 (23.2)	10,8 (24.0)	10,8 (24.0)	8,4 (18.5)
	24,0 (80)	7,2 (15.6)	7,9 (17.0)	7,5 (16.3)	7,3 (15.7)	7,0 (15.1)
	30,0 (100)	5,8 (12.6)	5,7 (12.4)	5,4 (11.7)	5,1 (11.1)	4,8 (10.4)
	36,0 (120)		4,4 (9.4)	4,0 (8.7)	3,7 (8.0)	3,4 (7.3)
	42,0 (140)			3,1 (6.6)	2,8 (5.9)	2,4 (5.0)

Jib 12,2 m (40 ft)	Boom m (ft)	24,4 (80)	30,5 (100)	39,6 (130)	48,8 (160)	57,9 (190)
	Radius					
	10,0 (30)					
	12,0 (40)	6,9 (14.4)	— (15.1)			
	14,0 (50)	6,8 (12.9)	6,8 (13.6)	— (14.5)	— (15.1)	
	18,0 (60)	5,9 (10.9)	6,2 (11.6)	6,6 (12.5)	6,8 (13.2)	— (13.8)
	24,0 (80)	5,0 (—)	5,3 (10.3)	5,7 (11.1)	6,0 (11.6)	6,3 (11.0)
	30,0 (100)		4,7 (—)	5,0 (8.9)	5,3 (8.4)	5,1 (7.8)
	36,0 (120)			4,1 (—)	3,9 (6.2)	3,6 (5.5)
	42,0 (140)				2,9 (—)	2,6 (4.4)

For complete chart, refer to www.cranelibrary.com.

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Fixed jib load charts



Model 11000-1 liftcrane jib capacities

No. 11000-1 fixed jib on main boom

28 800 kg (63,500 lb) upper counterweight, 7 300 kg (16,100 lb) carbody counterweight crawler extended

360° Rating kg (lb) x 1 000

10° offset

Boom m (ft)	24,4 (80)	30,5 (100)	39,6 (130)	48,8 (160)	57,9 (190)
Radius					
10,0 (30)					
12,0 (40)	9,0 (20.0)	9,0 (20.0)			
14,0 (50)	9,0 (20.0)	9,0 (20.0)	9,0 (20.0)		
18,0 (60)	7,8 (17.0)	8,6 (18.9)	9,0 (20.0)	9,0 (20.0)	8,1 (18.4)
24,0 (80)	5,9 (12.8)	6,6 (14.4)	7,6 (16.5)	7,4 (15.9)	7,1 (15.3)
30,0 (100)	4,7 (10.3)	5,3 (11.6)	5,5 (11.8)	5,2 (11.2)	4,9 (10.5)
36,0 (120)	4,1 (—)	4,4 (9.5)	4,1 (8.8)	3,8 (8.2)	3,5 (7.5)
42,0 (140)		3,5 (—)	3,1 (6.7)	2,8 (6.1)	2,4 (5.2)
44,0 (150)			2,9 (5.8)	2,5 (5.2)	2,1 (4.2)
48,0 (160)			2,2 (4.6)	2,0 (4.3)	1,6 (—)
52,0 (170)				1,5 (3.4)	

30° offset

Boom m (ft)	24,4 (80)	30,5 (100)	39,6 (130)	48,8 (160)	57,9 (190)
Radius					
10,0 (30)					
12,0 (40)					
14,0 (50)					
18,0 (60)	4,8 (10.4)	5,0 (10.9)	5,2 (11.4)		
24,0 (80)	4,0 (8.7)	4,2 (9.2)	4,5 (9.8)	4,7 (10.3)	4,9 (10.7)
30,0 (100)	3,4 (7.6)	3,7 (8.0)	3,9 (8.7)	4,2 (9.2)	4,4 (9.6)
36,0 (120)			3,5 (7.6)	3,8 (8.3)	3,8 (8.1)
42,0 (140)				3,0 (6.4)	2,7 (5.7)
44,0 (150)				2,7 (5.5)	2,4 (4.7)
48,0 (160)					1,8 (3.8)
52,0 (170)					

Boom m (ft)	24,4 (80)	30,5 (100)	39,6 (130)	48,8 (160)	57,9 (190)
Radius					
10,0 (30)					
12,0 (40)	8,1 (18.0)				
14,0 (50)	8,1 (17.8)	8,1 (18.0)	— (18.0)		
18,0 (60)	6,8 (14.8)	7,5 (16.3)	8,1 (18.0)	8,1 (18.0)	8,1 (18.0)
24,0 (80)	5,1 (11.1)	5,6 (12.3)	6,4 (14.1)	7,2 (15.6)	7,2 (15.4)
30,0 (100)	4,0 (8.8)	4,5 (9.9)	5,2 (11.4)	5,2 (11.3)	4,9 (10.7)
36,0 (120)	3,4 (7.3)	3,8 (8.2)	4,1 (8.9)	3,8 (8.3)	3,5 (7.5)
42,0 (140)		3,2 (7.1)	3,1 (6.8)	2,9 (6.1)	2,4 (5.2)
44,0 (150)		3,1 (—)	2,9 (6.0)	2,6 (5.3)	2,1 (4.3)
48,0 (160)			2,4 (5.0)	2,1 (4.4)	1,6 (3.4)
52,0 (170)			— (4.0)	1,6 (3.6)	

Boom m (ft)	24,4 (80)	30,5 (100)	39,6 (130)	48,8 (160)	57,9 (190)
Radius					
10,0 (30)					
12,0 (40)					
14,0 (50)					
18,0 (60)	4,0 (8.9)				
24,0 (80)	3,3 (7.3)	3,5 (7.7)	3,7 (8.1)	3,9 (8.5)	3,9 (8.7)
30,0 (100)	2,8 (6.2)	3,0 (6.6)	3,2 (7.1)	3,4 (7.5)	3,5 (7.8)
36,0 (120)		2,7 (5.9)	2,9 (6.3)	3,1 (6.7)	3,2 (7.0)
42,0 (140)			2,6 (5.8)	2,8 (6.2)	2,7 (5.9)
44,0 (150)				2,7 (5.7)	2,4 (4.9)
48,0 (160)				2,3 (4.9)	1,9 (4.0)
52,0 (170)					1,4 (3.2)

For complete chart, refer to www.cranelibrary.com.

Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.



Clamshell

Boom:

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

Basic boom length: 12.2 m (40 ft)

Max. boom length: 30.5 m (100 ft)

Limit one clamshell bucket weight: 2 100 kg (4,600 lb)

Maximum component chart

Boom length m (ft)	Boom arrangement
12.2 (40)	Base-Tip
15.2 (50)	Base-A-Tip
18.3 (60)	Base-A-A-Tip, Base-B-Tip
21.3 (70)	Base-A-B-Tip
24.4 (80)	Base-A-A-B-Tip, Base-B-B-Tip
27.4 (90)	Base-A-C-Tip
30.5 (100)	Base-A-A-C-Tip

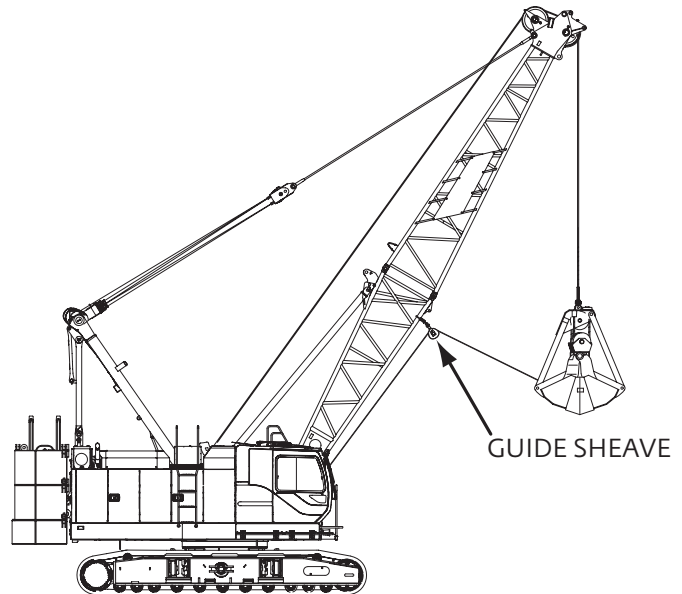
Base = 6.10 m (20 ft)

Insert: A = 3.05 m (10 ft)

B = 6.10 m (20 ft)

C = 12.2 m (40 ft)

Tip = 6.10 m (20 ft)



1. Figures represent maximum allowable capacity, and assume level ground and ideal working conditions.
2. Capacities are calculated at 66% of the minimum tipping loads.
3. Capacities are maximum recommended by PCSA Standard #4. Allowances must be made by the user for such unfavorable conditions as a soft or uneven supporting surface, rapid cycle operations, or bucket suction.
4. The combined weight of the bucket and load must not exceed these capacities.
5. Boom length for clamshell operation should not exceed 30.5 m (100 ft).

Clamshell Capacities

12,1 t (13.3 USt) counterweight
(one upper counterweight, crawlers extended)

kg (lb) x 1 000

Boom m (ft)	12,2 (40)	15,2 (50)	18,3 (60)	21,3 (70)	24,4 (80)	27,4 (90)	30,5 (100)
Radius							
6,7 (22)	10,0 (22.0)						
7,9 (26)	10,0 (22.0)	10,0 (22.0)					
9,1 (30)	10,0 (22.0)	10,0 (22.0)	10,0 (22.0)				
10,4 (34)	9,7 (21.4)	9,7 (21.4)	9,7 (21.4)	9,7 (21.4)			
12,8 (42)		7,8 (17.3)	7,8 (17.3)	7,8 (17.3)	7,8 (17.3)	7,8 (17.3)	
15,2 (50)			6,6 (14.6)	6,6 (14.6)	6,6 (14.6)	6,6 (14.6)	6,6 (14.6)
17,7 (58)			5,7 (12.5)	5,7 (12.5)	5,7 (12.5)	5,7 (12.5)	5,7 (12.5)
20,1 (66)				5,0 (11.0)	5,0 (11.0)	5,0 (11.0)	5,0 (11.0)
22,6 (74)					4,4 (9.8)	4,3 (9.7)	4,2 (9.4)
25,0 (82)						3,8 (8.3)	3,7 (8.1)
26,8 (88)							3,3 (7.2)
28,7 (94)							3,0 (6.6)