

Manitowoc 12000-1

Product Guide



- 110 t (120 USt) capacity
- 70,1 m (230 ft) heavy-lift boom
- Max boom + jib combination:
 61 m (200 ft) + 21,3 m (70 ft)
- 213 kW (285 HP) engine
- 163 m/min (525 fpm) maximum line speed
- 110 kN (25,000 lb) rated line pull

Features

Energy saving systems

Green-Engine mode conserves fuel during full speed drum operation under load, at a lower engine RPM. Other available options include Green-Winch Mode and Auto Idling Stop Mode.



Self-erecting counterweight

Eliminates the need for an assist crane, and also allows for reduced counterweight chart operation.



Retractable crawlers

Crawlers can be extended and retracted for better jobsite maneuverability. On some models, these crawlers can also ship attached for easier transport and quicker setup.



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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; Interim Tier 4/Stage IIIB (Required for sale in the US/Canada/Europe; requires "Ultra Low Sulfur Diesel")

HINO J08E-VM, 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; Tier 3 (Required for sale outside the US/Canada/Europe)

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.



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.

Relief valve pressures: Load hoist, boom hoist

| and propel system | 31.9 MPa (4,630 psi) |
|-------------------|----------------------|
| Swing system | 27.5 MPa, (3,989psi) |
| Control system | 5.4 MPa (783 psi) |



⊐ Hydraulic system

All four variable displacement piston-type pumps are driven by a heavy-duty pump drive. One of these pumps is used in the right propel circuit and hook hoist circuit and can accommodate an optional third drum circuit. Another is used in the left propel circuit and hook hoist circuit. A third pump is used in the boom hoist circuit. The fourth 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 and propel | 2 Piston pumps |
|------------------------------|----------------|
| Boom hoist | 1 Piston pump |
| Swing | 1 Piston pump |
| Control system and auxiliary | 2 Gear pumps |
| Brake cooling system | |

Hydraulic tank 535 liter (141 US gallon)

Cooling: Oil-to-air heat exchanger (plate-fin type).

Filtration: Full-flow and bypass type with replaceable paper element.



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.

Brake & Clutches (compatible): Forced-circulation oil-cooled wet-type multi-disc brakes, each using positive and negative actuation. An external ratchet is fitted for locking the drums.

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.

Wire rope capacity:

Front drum 260 m (853 ft) working length Rear drum 230 m (754 ft) working length

Optional third drum: free-fall is optional; drum grooved for 26 mm wire rope. Wire rope capacity working length is 190 m (623').



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 internally fitted in swing motor.

Swing lock: 4-position lock for transportation.

Specifications

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

Swing speed: 3.2 rpm



Boom support system

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

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

Drum: Single drum, grooved for 20 mm diameter wire rope. Boom Hoist reeving is 10-part line.

Wire Rope Capacity:

Drum 155 m (508 ft) working length.

Line speed: Single line on the first drum layer **Hoisting:** 48m/min (157 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. Hydraulic lift is standard.



Counterweight

Upper weight (5 pieces): 76,280 lb (34,600 kg) Carbody weight (2 pieces): 14,330 lb (6,500 kg)



Operator's cab

Totally enclosed, full vision cab fitted with tinted safety glass. A fully adjustable, highbacked seat with arm rests permits operators to set their ideal working position. Short handle control levers; electronic twist grib hand throttle. Joystick controls are optional. An air conditioner, a signal horn and windshield wiper are standard features.

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.

Safety device

New easy to read at a glance LMI and maintenance display. Function lock lever, anti-two-block, boom over hoist limit switch, boom angle indicator, signal horn, boom hoist drum lock, front and rear drum lock, swing lock, swing alarm (buzzer and lamps), boom backstops and load moment indicator.

Lights: 2 - Front flood lights 1 - Cab inside light

Lowerworks



Carbody

The durable carbody features steel welded construction with extendible axles.



Crawlers

Crawler assemblies can be hydraulically extended for wide-track operation. Crawler belt tension adjusted with hydraulic jack and maintained by shims between idler block and frame.

Crawler drive

The independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor driving a propel sprocket through a planetary gearbox. The hydraulic motor and gearbox are built into the crawler side frame within the shoe width. The track rollers are sealed for maintenance-free operation.

Crawler brakes

Spring set, hydraulically released, multiple disc-type parking brakes are built into each propel drive.

Steering mechanism

The hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite direction) and differential track speed.

Crawler shoes

914 mm (36") wide each crawler.

Travel speed

(High/Low) 1.4/1.0 km/h (0.87/0.62 mph)

Specifications

Attachments



Boom

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections. Boom tip is open throat construction. Two idler sheaves and four point sheaves are standard.

Basic boom length 15,2 m (50') consists of the boom butt section 7,62 m (25' 0") and boom top section 7,62 m (25' 0").

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

Maximum total length of boom 70,1 m (230').



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') consists of jib butt section 4,57 m (15') and jib top section 4,57 m (15').

Optional jib boom inserts of 3,0 m (10'), 6,1 m (20') are available for extension capabilities up to 21,3 m (70').

Maximum total length of boom and jib 61,0 m (200') + 21,3 m (70') is 82,3 m(270').

Tools 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.
- 13,5 t ball hook, 450 kg, wedge socket for 26 mm wire rope. (15 USt ball hook, 1,310 lb wedge socket for 26 mm wire rope.)
- 35 t hook block, 700 kg with one 500 mm Nominal O.D. roller bearing sheaves. (40 USt hook block, 1,881 lb with one 24" Nominal O.D. roller bearing sheaves.)

- 70 t hook block, 900 kg, with three 500 mm Nominal O.D. roller bearing sheaves. (90 USt hook block, 4,060 lb, with three 24" Nominal O.D. roller bearing sheaves.)
- Nominal O.D. roller bearing sheaves. (120 USt hook block, 3,760 lb with five 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.
- Hydraulic tagline.
- External lamp for overload alarm.

Working weight

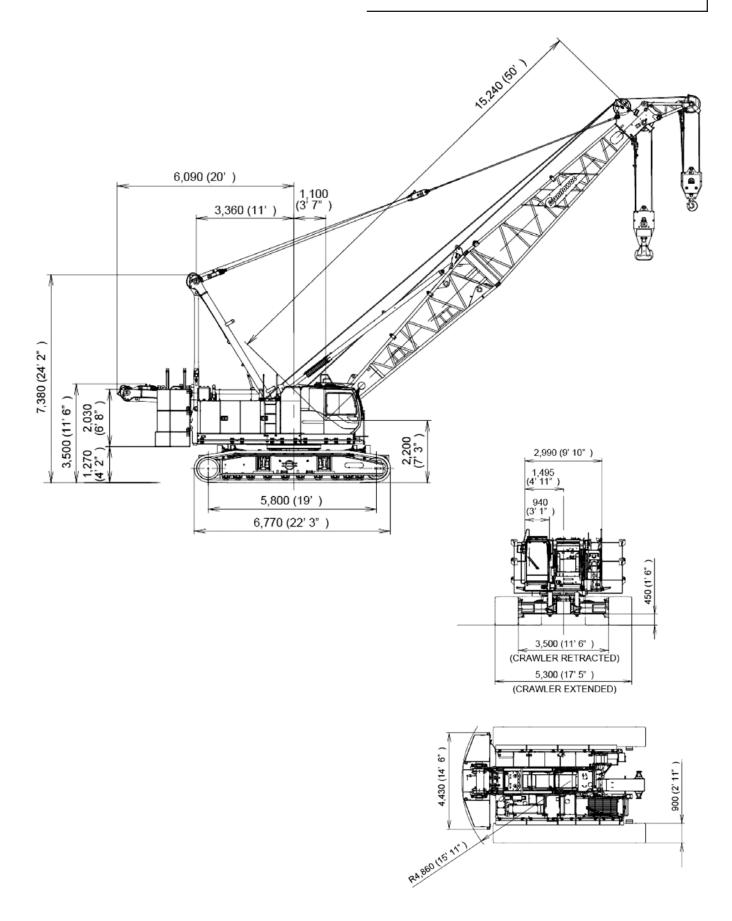
Approximately 99,900 kg (220,300 lb) including upperworks and lowerworks, full upper counterweights, full carbody counterweight and 15,2 m (50') basic boom.

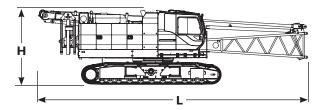
Ground pressure

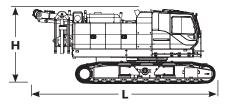
Approximately 93.9 kPa (13.6 psi) with basic boom and no load.

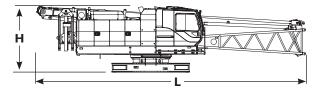
Gradeability

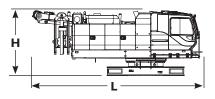
With basic boom: 40%.

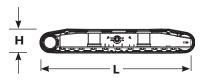


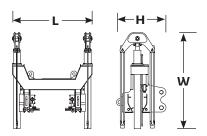












| Upperworks | | x 1 |
|------------|-----------|------------|
| Length | 15,78 m | 51' 9" |
| Width | 3,50 m | 11' 8" |
| Height | 3,50 m | 11' 6" |
| Weight | 57 520 kg | 126,808 lb |

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 | | x1 |
|-------------|------------|-----------|------------|
| _ | Length | 9,42 m | 30' 11" |
| | Width | 3,50 m | 11' 6" |
| | Height | 3,50 m | 11' 6" |
| | Weight | 54 200 kg | 119,808 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.

| Upperwork | s without crawlers | x 1 |
|-----------|--------------------|------------|
| Length | 15,78 m | 51' 9" |
| Width | 2,99 m | 9'10" |
| Height | 3,05 m | 10' 0" |
| Weight | 33 660 kg | 74,206 lb |

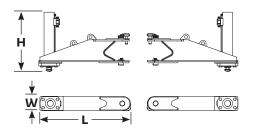
Note: Weight includes base machine, gantry, maximum hoist and whip lines on drums, full hydraulic fluid reservoir, and one third tank of fuel.

| > | Upperwork | s without crawlers | x 1 |
|---|-----------|--------------------|------------|
| | Length | 8,65 m | 28' 5" |
| | Width | 2,99 m | 9'10" |
| | Height | 3,05 m | 10' 0" |
| | Weight | 30 340 kg | 66,887 lb |

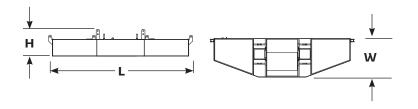
Note: Weight includes base machine, gantry, maximum hoist and whip lines on drums, full hydraulic fluid reservoir, and one third tank of fuel.

| Crawlers | | x 2 |
|----------|-----------|-----------|
| Length | 6,77 m | 22' 2" |
| Width | 0,90 m | 2'11" |
| Height | 1,13 m | 3' 9" |
| Weight | 11 930 kg | 26,301 lb |

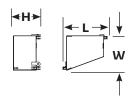
| Self removal (| ınit | x 1 |
|----------------|--------|------------|
| Length | 1,59 m | 5' 3" |
| Width | 1,90 m | 6' 3" |
| Height | 0,98 m | 3' 3" |
| Weight | 870 kg | 1,918 lb |



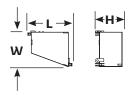
| Hydraulic jac | k (if removed) | x1 |
|---------------|----------------|--------|
| Length | 1,48 m | 4'10" |
| Width | 0,23 m | 0' 9" |
| Height | 0,97 m | 3'2" |
| Weight | 320 kg | 705 lb |



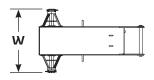
| Upper counterweight A | | x1 |
|-----------------------|-----------|-----------|
| Length | 4,43 m | 14' 6" |
| Width | 1,19 m | 3' 11" |
| Height | 0,83 m | 2' 9" |
| Weight | 11 600 kg | 25,573 lb |

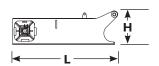


| Upper count | erweight B | x 2 |
|-------------|------------|-----------|
| Length | 1,45 m | 4' 9" |
| Width | 1,17 m | 3'10" |
| Height | 0,88 m | 2'11" |
| Weight | 5 750 kg | 12,676 lb |

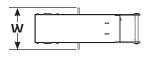


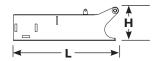
| Upper counte | x 2 | |
|--------------|----------|-----------|
| Length | 1,45 m | 4' 9" |
| Width | 1,17 m | 3'10" |
| Height | 0,88 m | 2'11" |
| Weight | 5 750 kg | 12,676 lb |





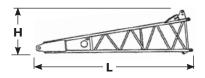
| Carbody cou | x1 | |
|-------------|----------|----------|
| Length | 2,08 m | 6' 10" |
| Width | 1,26 m | 4' 2" |
| Height | 0,66 m | 2'2" |
| Weight | 3 320 kg | 7,319 lb |





| Carbody counterweight without float x 1 | | | |
|---|----------|----------|--|
| Length | 2,08 m | 6'10" | |
| Width | 0,82 m | 2' 8" | |
| Height | 0,66 m | 2' 2" | |
| Weight | 3 250 kg | 7,165 lb | |

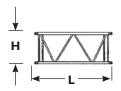




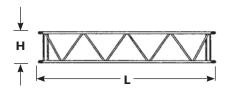
| Boom Dutt / | ХI | |
|-------------|----------|----------|
| Length | 7,79 m | 25'7" |
| Width | 1,73 m | 5' 8" |
| Height | 2,06 m | 6' 9" |
| Weight | 2 235 kg | 4,927 lb |
| | | |

| ↑ H J | |
|--------------|---|
| | L |

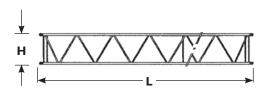
| Boom top 7,6 | x1 | |
|--------------|---------|----------|
| Length | 8,32 m | 27' 4" |
| Width | 1,68 m | 5' 6" |
| Height | 1,65 m | 5' 5" |
| Weight | 1525 kg | 3,360 lb |



| Boom insert | x 1,2 | |
|-------------|--------|--------|
| Length | 3,16 m | 10' 4" |
| Width | 1,68 m | 5' 6" |
| Height | 1,69 m | 5' 7" |
| Weight | 380 kg | 840 lb |

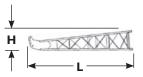


| Boom insert 6,1 m (20 ft) | | x 1,2 |
|---------------------------|--------|----------|
| Length | 6,21 m | 20' 5" |
| Width | 1,68 m | 5' 6" |
| Height | 1,69 m | 5'7" |
| Weight | 655 kg | 1,445 lb |

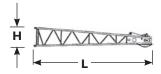


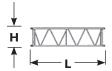
| > | Boom insert 12,2 | m (40 ft) | x 1,2,3 |
|-------------|------------------|-----------|----------|
| | Length | 12,31 m | 40'4" |
| | Width | 1,68 m | 5' 6" |
| | Height | 1,69 m | 5'7" |
| | Weight | 1 195 kg | 2,635 lb |
| | | | |

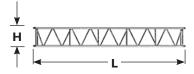
Note: Use of one "A" type insert with lug required for any boom combinations that require a 12,2 m (40') insert.

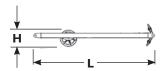


| Fixed jib butt | | x1 |
|----------------|--------|--------|
| Length | 4,81 m | 15' 9" |
| Width | 0,80 m | 2' 8" |
| Height | 0,80 m | 2' 8" |
| Weight | 200 kg | 440 lb |









| Fixed jib top | | x1 |
|---------------|--------|--------|
| Length | 5,00 m | 16' 5" |
| Width | 0,80 m | 2' 8" |
| Height | 0,80 m | 2' 8" |
| Weight | 280 kg | 620 lb |

| Fixed jib insert 3,0 m (10 ft) | | x 1,2 |
|--------------------------------|--------|--------|
| 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 ir | nsert 6,1 (20 ft) | x 1,2 |
|--------------|-------------------|--------|
| Length | 6,16 m | 20' 3" |
| Width | 0,80 m | 2' 8" |
| Height | 0,80 m | 2' 8" |
| Weight | 180 kg | 400 lb |

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

Performance data

| Line pull | | | | | | | | | | | |
|-------------------|---|-------------------------------|--|--|--|--|--|--|--|--|--|
| | Rated line pull kg <mark>(lb)</mark> | *Maximum line pull kg (lb) | | | | | | | | | |
| Front drum | 11 400 (25,100) | 21 200 (46,800) | | | | | | | | | |
| Rear drum | 11 400 (25,100) | 21 200 (46,800) | | | | | | | | | |
| Optional 3rd drum | 11 400 (25,100) | 21 200 (46,800) | | | | | | | | | |

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

| Wire rope spec | Wire rope specifications | | | | | | | | | | | | |
|----------------|--------------------------|----------------|---|--|--|--|--|--|--|--|--|--|--|
| Use | Specs | Diameter mm | Working length m (<mark>ft)</mark> | Breaking strength kg <mark>(lb)</mark> | | | | | | | | | |
| Front | IWRC | 26,0 | 260 | 54 431 | | | | | | | | | |
| drum | 6 X Fi (29) C/O | | (853) | (120,000) | | | | | | | | | |
| Rear | IWRC | 26,0 | 230 | 54 431 | | | | | | | | | |
| drum | 6 X Fi (29) C/O | | (754) | (120,000) | | | | | | | | | |
| Boom hoist | IWRC | 20,0 | 155 | 33 430 | | | | | | | | | |
| drum | 6 X WS (31) C/O | | (508) | (73,700) | | | | | | | | | |
| Third drum | IWRC | 26,0 | 190 | 54 431 | | | | | | | | | |
| (optional) | 6 X Fi (29) C/O | | (623) | (120,000) | | | | | | | | | |

| Front and r | ear winc | h perforn | nance (op | otional: t | hird winc | :h) |
|-----------------------------|------------|------------|--------------|------------|-----------|--------------|
| | | | Lines | speed | | |
| | | | m/min | (ft/min) | | |
| Layer | 1 | 2 | 3 | 4 | 5 | 6 |
| Single line pull kg (lb) | | | | | | |
| 0 (0) | 120 | 129 | 137 | 146 | 155 | 163 |
| | (394) | (422) | (450) | (479) | (505) | (535) |
| 2 2 6 8 | 118 | 126 | 135 | 143 | 152 | 160 |
| (5,000) | (387) | (415) | (443) | (471) | (499) | (526) |
| 4 536 | 108 | 108 | 108 | 108 | 108 | 108 |
| (10,000) | (353) | (353) | (353) | (353) | (353) | (353) |
| 6 804 | 72 | 72 | 72 | 72 | 72 | 72 |
| (15,000) | (235) | (235) | (235) | (235) | (235) | (235) |
| 9 072 | 52 | 52 | 52 | 52 | 52 | 52 |
| (20,000) | (117) | (117) | (117) | (117) | (117) | (117) |
| 11 340 | 43 | 43 | 43 | 43 | 43 | 43 |
| (25,000) | (141) | (141) | (141) | (141) | (141) | (141) |
| 13 608 | 36 | 36 | 36 | 37 | 37 | 37 |
| (30,000) | (118) | (118) | (119) | (121) | (122) | (123) |
| 15 876 | 31 | 32 | 32 | 32 | _ | _ |
| (35,000) | (103) | (104) | (105) | (105) | _ | _ |
| 18 144 (40,000) | 28 (92) | 28 (92) | _ | | | _ _ |

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

Load chart notes

- 1. 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).
- 2. 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.
- 3. 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.
- 4. 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.
- 6. 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 deduted as shown below.

| Jib length m | Upper | 9,1 | 12,2 | 15,2 | 18,3 | 21,3 |
|--------------|------------|---------|---------|---------|---------|---------|
| | boom point | (30) | (40) | (50) | (60) | (70) |
| Deduct kg | 318 | 1100 | 1500 | 2 000 | 2 400 | 2 900 |
| | (700) | (2,400) | (3,200) | (4,200) | (5,200) | (6,200) |

- 8. 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 upper boom point loads.
- 9. Boom lengths for fixed jib mounting are 27,4 m (90 ft) to 61,0 m (200 ft).
- 10. An upper boom point cannot be used on a 70,1 m (230 ft) boom length.
- 11. The boom should be erected over the front of the crawlers, not laterally.
- 12. 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) | 11 300 (25,000) | 22 600 (50,000) | 33 900 (75,000) | 45 200 (100,000) | 56 500 (125,000) |
| | | | | | |
| No. of parts of line | 6 | 7 | 8 | 9 | 10 |
| Maximum loads kg | 67 800 (150,000) | 79 100 (175,000) | 90 400 (200,000) | 101700 (225,000) | 110 000 (240,000) |

Maximum load for fixed jib

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

Maximum load for upper boom point (on liftcrane boom)

| No. of parts of line | 1 | 2 |
|----------------------|--------------------|--------------------|
| Maximum loads kg | 11 300 (25,000) | 22 600 (50,000) |

- 14. 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.
- 15. Designed and rated to comply with ASME Code B30.5.

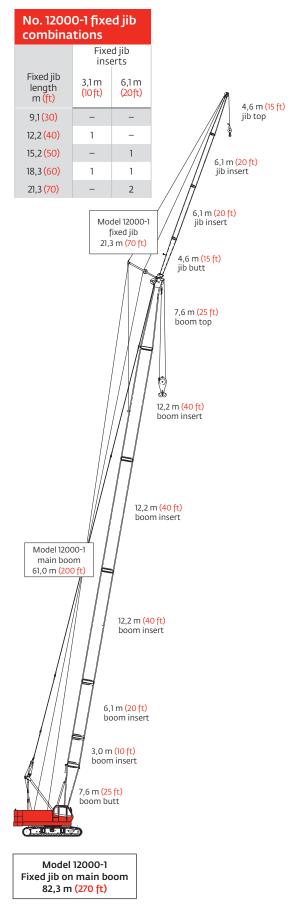
Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

Boom combinations

No. 12000-1 heavy-lift boom combinations Boom inserts Boom 3,1 m (10 ft) 6,1 m 12,2 m length m (ft) (20 ft) (40 ft) 15,2(50) 18,3 (60) 1 2 21,3 (70) 24,4 (80) 1 1 27,4 (90) 30,5 (100) 2 7,6 m <mark>(25 ft)</mark> No. 12000-1 33,5 (110) 2 2 boom top 36,6 (120) 1 1* 1 39,6 (130) 2 1* 42,7 (140) 1* 1 2 45,7 (150) 2 2 1* 48,8 (160) 1 2* 12,2 m (40 ft) boom insert 51,8 (170) 2 2* 54,9 (180) 1 2 2* 57,9 (190) 2 2* 61,0 (200) 1 3* 64,0 (210) 2 3* 67,0 (220) 1 2 3* 12,2 m (40 ft) boom insert 70,1(230) 2 2 3* * NOTE: One 40 ft (12,2 m) boom insert with lug 40A is required for fixed jib. When no jib is installed a 40 ft (12,2 m) boom can be used instead of 40A. 12,2 m (40 ft) boom insert Model 12000-1 main boom 70,1 m (230 ft) 6,1 m (20 ft) boom insert 6,1 m (20 ft) boom insert 3,0 m (10 ft) boom insert boom insert 7,6 m (25 ft) boom butt

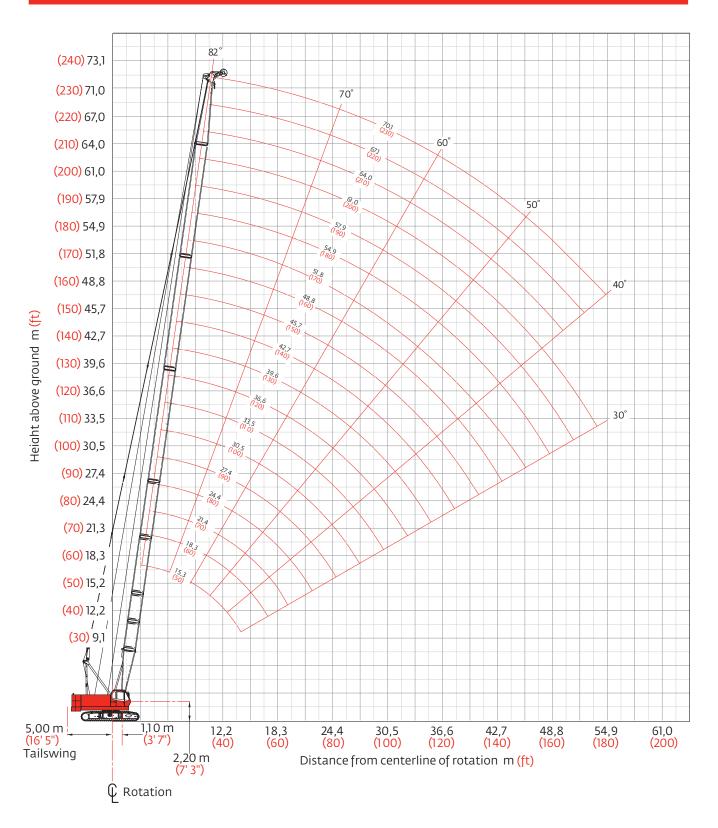
Model 12000-1 Main boom 70,1 m (230 ft)

Boom combinations



Heavy-lift boom range diagram

No. 12000-1 main boom



Heavy-lift boom load charts

Model 12000-1 liftcrane boom capacities - 12000-1 main boom

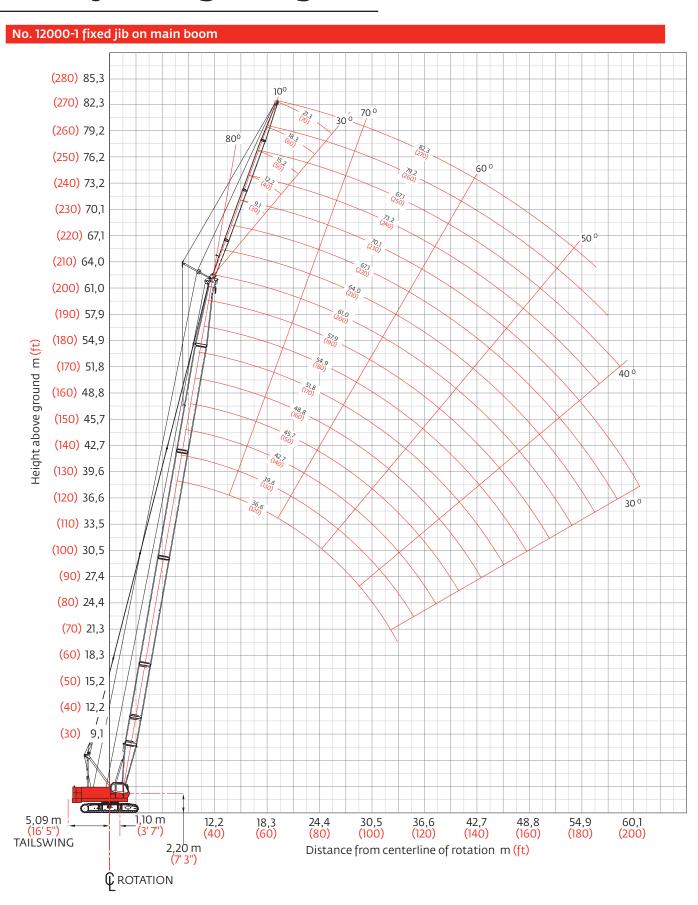
34 600 kg (76,280 lb) crane counterweight, 6 500 kg (14,330 lb) carbody counterweight crawler extended

| 34 600 k 360° Ra | 3 | io ib) cia | arie cou | iitei wei | gric, o s | oo kg (i | טו טככ,+ | Carbot | • | b) x 1 00 | | וכו כאנכו | iueu | | | | | | |
|---------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|-----------------------|----------------|----------------|----------------|----------------|----------------|-----------------------|
| Boom m (ft) | 15,2 (50) | 18,3 (60) | 21,3 (70) | 24,4 (80) | 27,4 (90) | 30,5 (100) | 33,5 (110) | 36,6 (120) | 39,6 (130) | 42,7 (140) | 45,7 (150) | 48,8 (160) | 51,8 (170) | 54,9 (180) | 57,9 (190) | 61,0 (200) | 64,0 (210) | 67,1 (220) | 70,1 (230) |
| Radius | | | | | | | | | | | | | | | | | | | |
| 3,6 (12) | 110,0 (240.0) | | | | | | | | | | | | | | | | | | |
| 4,0 (14) | 99,1 (206.0) | (204.0) | | | | | | | | | | | | | | | | | |
| 4,5 (16) | 88,4 (177.0) | 87,6 (177.0) | 86,2 (177.0) | | | | | | | | | | | | | | | | |
| 5,5 (18) | 68,0 (150.0) | 67,9 (150.0) | 67,9 (150.0) | 68,0 (150.0) | 67,9 (150.0) | | | | | | | | | | | | | | |
| 6,0 (20) | 62,0 (135.0) | 61,9 (135.0) | 61,9 (135.0) | 62,0 (135.0) | 61,9 (135.0) | 61,9 (135.0) | | | | | | | | | | | | | |
| 7,0 (24) | 53,6 (111.9) | 53,6 (111.7) | 53,6 (111.7) | 53,6 (111.5) | 53,6 (111.5) | 53,1 (111.3) | 53,0 (111.3) | 53,3 (111.1) | _ (100.0) | | | | | | | | | | |
| 8,0 (28) | 44,5 (89.5) | 44,3 (89.2) | 44,3 (89.0) | 44,3 (88.8) | 44,3 (88.8) | 44,2 (88.6) | 44,1 (88.4) | 44,1 (88.4) | 44,0 (88.1) | 43,9 (87.9) | _ (87.7) | | | | | | | | |
| 10,0 (34) | 32,8 (68.3) | 32,2 (68.1) | 32,2 (67.9) | 32,2 (67.4) | 32,2 (67.4) | 32,1 (67.2) | 32,0 (67.0) | 32,0 (67.0) | 31,9 (66.7) | 31,8 (66.5) | 31,7 (66.3) | 31,7 (66.3) | 31,6 (66.1) | 31,5 (65.9) | 30,0 (65.4) | | | | |
| 12,0 (40) | 25,6 (55.1) | 25,6 (54.6) | 25,3 (54.4) | 25,3 (54.2) | 24,6 (54.0) | 24,9 (53.7) | 24,8 (53.5) | 24,8 (53.5) | 24,7 (53.3) | 24,6 (53.1) | 24,4 (52.6) | 24,5 (52.9) | 24,3 (52.4) | 24,2 (52.2) | 24,1 (52.0) | 22,6 (50.0) | 22,6 (50.0) | 21,3 (46.7) | 19,5 (42.7) |
| 14,0 (45) | _ (47.1) | 20,5 (46.7) | 20,5 (46.5) | 20,5 (46.2) | 20,5 (46.0) | 20,3 (45.8) | 20,2 (45.6) | 20,2 (45.6) | 20,1 (45.4) | 20,0 (45.1) | 19,8 (44.7) | 19,9 (44.9) | 19,7 (44.5) | 19,6 (44.3) | 19,5 (44.0) | 19,5 (44.0) | 19,4 (43.8) | 19,2 (43.4) | 17,9 (40.1) |
| 16,0 (55) | | 17,0 (36.1) | 17,0 (35.9) | 17,0 (35.4) | 17,0 (35.4) | 17,0 (35.0) | 16,9 (34.8) | 16,8 (34.8) | 16,8 (34.6) | 16,6 (34.3) | 16,5 (33.9) | 16,5 (33.9) | 16,4 (33.7) | 16,2 (33.2) | 16,1 (33.0) | 16,1 (33.0) | 16,0 (32.8) | 15,9 (32.6) | 15,7 (32.1) |
| 22,0 (75) | | | | | 11,5 (23.5) | 11,0 (23.1) | 11,0 (22.9) | 10,9 (22.7) | 10,8 (22.4) | 10,6 (22.2) | 10,5 (21.8) | 10,5 (21.8) | 10,4 (21.6) | 10,2 (21.1) | 10,0 (20.9) | 10,1 (20.9) | 10,0 (20.7) | 9,8 (20.2) | 9,6 (20.0) |
| 28,0 (95) | | | | | | | 7,9 (16.5) | 7,8 (16.3) | 7,7 (16.0) | 7,5 (15.6) | 7,4 (15.4) | 7,4 (15.4) | 7,2 (14.9) | 7,0 (14.7) | 6,9 (14.3) | 6,9 (14.3) | 6,8 (14.1) | 6,7 (13.8) | 6,5 (13.4) |
| 32,0 (105) | | | | | | | | 6,4 (14.1) | 6,3 (13.8) | 6,1 (13.4) | 6,0 (13.2) | 6,0 (13.2) | 5,8 (12.7) | 5,6 (12.3) | 5,5 (12.1) | 5,5 (12.1) | 5,4 (11.9) | 5,2 (11.4) | 5,1 (11.2) |
| 34,0 (115) | | | | | | | | | 5,8 (12.1) | 5,5 (11.6) | 5,4 (11.2) | 5,4 (11.2) | 5,2 (11.0) | 5,0 (10.5) | 4,9 (10.1) | 5,0 (10.3) | 4,8 (9.9) | 4,6 (9.7) | 4,5 (9.2) |
| 38,0 (125) | | | | | | | | | | 4,7 (10.3) | 4,5 (9.9) | 4,4 (9.7) | 4,3 (9.4) | 4,1 (9.0) | 4,0 (8.8) | 4,0 (8.8) | 3,8 (8.3) | 3,6 (7.9) | 3,4 (7.4) |
| 40,0 (135) | | | | | | | | | | | | 4,1 (8.5) | 3,9 (8.1) | 3,7 (7.7) | 3,5 (7.2) | 3,5 (7.2) | 3,4 (6.8) | 3,2 (6.6) | 3,0 (6.1) |
| 44,0 (145) | | | | | | | | | | | | | 3,2 (7.0) | 3,0 (6.6) | 2,8 (6.1) | 2,8 (6.1) | 2,6 (5.7) | 2,4 (5.2) | 2,2 (4.8) |
| 46,0 (155) | | | | | | | | | | | | | | 2,7 (5.7) | 2,5 (5.2) | 2,5 (5.0) | 2,3 (4.6) | 2,1 (4.4) | 1,9 (3.9) |
| 50,0 (165) | | | | | | | | | | | | | | | 2,0 (4.4) | 1,9 (4.1) | 1,7 (3.7) | 1,6 (3.5) | |
| 53,3 (175) | | | | | | | | | | | | | | | | 1,6 (3.5) | | | |

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

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

Fixed jib range diagram



Fixed jib load charts

Model 12000-1 liftcrane fixed jib capacities - No. 12000-1 fixed jib on main boom

34 600 kg (76,280 lb) crane counterweight, 6 500 kg (14,330 lb) carbody counterweight crawler extended 360° Rating kg (lb) x 1 000

| | | | 10° of | fset | | | | 30° offset | | | | | | |
|--------------------|---|--|---|--|--|--|--------------------|--|--------------------------------|---|--|--|--|--|
| | Boom m (ft) | 27,4 (90) | 36,6 (120) | 48,8 (160) | 54,9 (180) | 61,0 (200) | | Boom m (ft) | 27,4 (90) | 36,6 (120) | 48,8 (160) | 54,9 (180) | 61,0 (200) | |
| | Radius | | ı | ı | ı | ı | | Radius | | l | ı | ı | I | |
| | 10,0 (30) | 10,8 (24.0) | | | | | | 10,0 (30) | | | | | | |
| | 12,0 (40) | 10,8 (24.0) | 10,8 (24.0) | | | | | 12,0 (40) | (21.0) | | | | | |
| | 14,0 (50) | 10.8 (24.0) | 10,8 (24.0) | 10,8 (24.0) | (24.0) | (24.0) | | 14,0 (50) | 9,5 (21.0) | 9,5 (21.0) | | | | |
| | 18,0 (60) | 10.8 (24.0) | 10,8 (24.0) | 10,8 (24.0) | 10,8 (24.0) | 10,8 (24.0) | | 18,0 (60) | 9,5 (21.0) | 9,5 (21.0) | 9,5 (21.0) | 9,5 (21.0) | (21.0) | |
| Jib 9,1 m (30 ft) | 24,0 (80) | 10,1 (21.9) | 9,7 (21.1) | 9,3 (20.1) | 9,0 (19.8) | 8,8 (19.0) | Jib 9,1 m (30 ft) | 24,0 (80) | 8,6 (18.9) | 9,4 (20.8) | 9,4 (20.8) | 9,2 (20.2) | 9,1 (19.9) | |
| 1m (| 30,0 (100) | 7,4 (16.1) | 7,1 (15.3) | 6,6 (14.2) | 6,3 (13.6) | 6,1 (13.1) | л (| 30,0 (100) | | 7,2 (15.6) | 6,8 (14.7) | 6,5 (14.1) | 6,4 (13.7) | |
| Jib 9, | 36,0 (120) | | 5,3 (11.6) | 4,8 (10.4) | 4,5 (9.8) | 4,3 (9.3) | e dil | 36,0 (120) | | | 5,0 (10.7) | 4,7 (10.2) | 4,5 (9.7) | |
| | 42,0 (140) | | | 3,6 (7.8) | 3,3 (7.1) | 3,0 (6.5) | | 42,0 (140) | | | | 3,4 (7.4) | 3,2 (7.0) | |
| | 48,0 (160) | | | 2,7 (5.8) | 2,3 (4.9) | 2,0 (4.2) | | 48,0 (160) | | | | | 2,3 (—) | |
| | 52,0 (175) | | | 2,2 (-) | 1,7 (3.6) | 1,5 (—) | | 52,0 (175) | | | | | | |
| | 56,0 (185) | | | | | | | 56,0 (185) | | | | | | |
| | | | 1 | 1 | 1 | | | | | | 1 | I | 1 | |
| | Boom m (ft) | 27,4 (90) | 36,6 (120) | 48,8 (160) | 54,9 (180) | 61,0 (200) | | Boom m (ft) | 27,4 (90) | 36,6 (120) | 48,8 (160) | 54,9 (180) | 61,0 (200) | |
| | | | | | | | | | | | | | | |
| | Radius | 9.0 | | | | | | Radius | | | | | | |
| | 10,0 (30) | 9,0 (—) | 0.0 | | | | | 10,0 (30) | | | | | | |
| | 10,0 (30) 12,0 (40) | (—) 9,0 (20.0) | 9,0 | | | | | 10,0 (30) 12,0 (40) | | | | | | |
| | 10,0 (30) 12,0 (40) 14,0 (50) | 9,0 (20.0) 9,0 (20.0) | 9,0 (20.0) | 9,0 (20.0) | | | | 10,0 (30) 12,0 (40) 14,0 (50) | | | | | | |
| t) | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) | (-) 9,0 (20.0) 9,0 (20.0) 9,0 (20.0) | 9,0 (20.0) 9,0 (20.0) | 9,0 (20.0) | 9,0 (20.0) | 9,0 (20.0) | t) | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) | 5,1 (11.4) | 5,1 (11.4) | 5,1 () | | | |
| (50 ft) | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) 24,0 (80) | (—) 9,0 (20.0) 9,0 (20.0) 9,0 (20.0) 7,7 (16.8) | 9,0 (20.0) 9,0 (20.0) 8,9 (19.5) | 9,0 (20.0) 9,0 (20.0) 9,0 (20.0) | 9,0 (20.0) | 8,9 (19.7) | (50 ft) | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) 24,0 (80) | (11.4) 5,1 (11.2) | 5,1 (11.2) | 5,1 (11.4) | 5,1 (11.4) | 5,1 (11.4) | |
| | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) | (-) 9,0 (20.0) 9,0 (20.0) 9,0 (20.0) | 9,0 (20.0) 9,0 (20.0) 8,9 | 9,0 (20.0) 9.0 | 9,0 | (20.0) | | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) | (11.4) 5.1 | (11.4) 5,1 | 5.1 | 5,1 (11.4) 5,1 (11.4) | 5,1 (11.4) 5,1 (11.4) | |
| Jib 15,2 m (50 ft) | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) 24,0 (80) | (—) 9,0 (20.0) 9,0 (20.0) 9,0 (20.0) 7,7 (16.8) 6,2 | 9,0 (20.0) 9,0 (20.0) 8,9 (19.5) | 9,0 (20.0) 9,0 (20.0) 9,0 (20.0) 6,8 | 9,0 (20.0) 6,5 | (20.0) 8,9 (19.7) 6,3 | Jib 15,2 m (50 ft) | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) 24,0 (80) | (11.4) 5,1 (11.2) 4,4 | 5,1 (11.2) 4,8 | 5,1 (11.4) | (11.4) | (11.4) | |
| | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) 24,0 (80) 30,0 (100) | (—) 9,0 (20.0) 9,0 (20.0) 9,0 (20.0) 7,7 (16.8) 6,2 (13.6) 5,2 | 9,0 (20.0) 9,0 (20.0) 8,9 (19.5) 7,2 (15.7) 5,5 | 9,0 (20.0) 9,0 (20.0) 9,0 (20.0) 6,8 (14.7) 5,0 | 9,0 (20.0) 6,5 (14.1) 4,7 | (20.0) 8,9 (19.7) 6,3 (13.6) 4,5 | | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) 24,0 (80) 30,0 (100) | (11.4) 5,1 (11.2) 4,4 | (11.4) 5,1 (11.2) 4,8 (10.6) 4,3 | 5,1 (11.4) 5,1 (11.4) | 5,1 (11.4) 4,9 | (11.4) 5,1 (11.4) | |
| | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) 24,0 (80) 30,0 (100) 36,0 (120) | (—) 9,0 (20.0) 9,0 (20.0) 9,0 (20.0) 7,7 (16.8) 6,2 (13.6) 5,2 | 9,0 (20.0) 9,0 (20.0) 8,9 (19.5) 7,2 (15.7) 5,5 (11.9) | (20.0) 9,0 (20.0) 9,0 (20.0) 6,8 (14.7) 5,0 (10.8) 3,8 | (20.0) 9,0 (20.0) 6,5 (14.1) 4,7 (10.2) 3,5 | (20.0) 8,9 (19.7) 6,3 (13.6) 4,5 (9.8) 3.3 | | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) 24,0 (80) 30,0 (100) 36,0 (120) | (11.4) 5,1 (11.2) 4,4 | (11.4) 5,1 (11.2) 4,8 (10.6) 4,3 | 5,1 (11.4) 5,1 (11.4) 4,7 (10.4) 4,0 | (11.4) 5,1 (11.4) 4,9 (10.8) 3,7 | 5,1 (11.4) 4,9 (10.6) | |
| | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) 24,0 (80) 30,0 (100) 36,0 (120) 42,0 (140) | (—) 9,0 (20.0) 9,0 (20.0) 9,0 (20.0) 7,7 (16.8) 6,2 (13.6) 5,2 | 9,0 (20.0) 9,0 (20.0) 8,9 (19.5) 7,2 (15.7) 5,5 (11.9) | (20.0) 9,0 (20.0) 9,0 (20.0) 6,8 (14.7) 5,0 (10.8) 3,8 (8.2) | (20.0) 9,0 (20.0) 6,5 (14.1) 4,7 (10.2) 3,5 (7.5) 2,5 | (20.0) 8,9 (19.7) 6,3 (13.6) 4,5 (9.8) 3,3 (7.1) | | 10,0 (30) 12,0 (40) 14,0 (50) 18,0 (60) 24,0 (80) 30,0 (100) 42,0 (140) 48,0 | (11.4) 5,1 (11.2) 4,4 | (11.4) 5,1 (11.2) 4,8 (10.6) 4,3 | 5,1 (11.4) 5,1 (11.4) 4,7 (10.4) 4,0 | (11.4) 5,1 (11.4) 4,9 (10.8) 3,7 (8.1) | (11.4) 5,1 (11.4) 4,9 (10.6) 3,6 (7.7) | |

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

Meets ASME 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 12000-1 liftcrane fixed jib capacities - No. 12000-1 fixed jib on main boom

34 600 kg (76,280 lb) crane counterweight, 6 500 kg (14,330 lb) carbody counterweight crawler extended 360° Rating kg (lb) x 1 000

| | | | 10° o | ffset | | | | | | | 30° (| offset | | |
|--------------------|----------------|---------------|---------------|---------------|------------------------|---------------|--|--------------------|----------------|-------------------------|---------------|---------------|---------------|------------------------|
| | Boom m (ft) | 27,4 (90) | 36,6 (120) | 48,8 (160) | 54,9 (180) | 61,0 (200) | | | Boom m (ft) | 27,4 (90) | 36,6 (120) | 48,8 (160) | 54,9 (180) | 61,0 (200) |
| | Radius | | | | | | | | Radius | | | | | |
| | 12,0 (45) | 7,1 (15.7) | | | | | | | 12,0 (45) | | | | | |
| | 18,0 (60) | 6,7 (14.8) | 6,8 (15.1) | 6,9 (15.4) | 7,0 (15.6) | 7,1 (15.7) | | | 18,0 (60) | 3,6 (-) | | | | |
| | 22,0 (75) | 6,4 (13.9) | 6,6 (14.4) | 6,7 (14.8) | 6,8 (15.0) | 6,9 (15.1) | | | 22,0 (75) | 3,6 (8.1) | 3,6 (8.1) | | | |
| $\overline{}$ | 26,0 (90) | 5,5 (11.5) | 6,3 (13.3) | 6,5 (14.3) | 6,6 (14.4) | 6,7 (14.6) | | Jib 21,3 m (70 ft) | 26,0 (90) | 3,5 (7.6) | 3,6 (8.1) | 3,6 (8.1) | 3,6 (8.1) | 3,6 (8.1) |
| Jib 21,3 m (70 ft) | 32,0 (110) | 4,4 (9.4) | 5,1 (10.9) | 6,0 (12.7) | 6,0 (12.3) | 5,8 (11.9) | | | 32,0 (110) | 3,0 (6.5) | 3,3 (7.0) | 3,5 (7.6) | 3,6 (7.8) | 3,6 (8.0) |
| 1,3 m | 38,0 (130) | 3,7 (7.9) | 4,3 (9.2) | 4,7 (9.7) | 4,4 (9.1) | 4,2 (8.6) | | | 38,0 (130) | 2,7 (-) | 2,9 (6.3) | 3,1 (6.9) | 3,2 (7.1) | 3,3 (7.3) |
| Jib 2 | 44,0 (145) | 3,2 (7.1) | 3,7 (8.2) | 3,6 (7.9) | 3,3 (7.2) | 3,1 (6.8) | | Jib 2 | 44,0 (145) | | 2,6 (5.9) | 2,9 (6.4) | 3,0 (6.6) | 3,0 (6.8) |
| | 50,0 (170) | | 3,2 (6.8) | 2,7 (5.6) | 2,4 (4.7) | 2,0 (4.1) | | | 50,0 (170) | | | 2,6 (5.9) | 2,7 (5.5) | 2,5 (4.9) |
| | 54,0 (180) | | | 2,2 (4.8) | 1,8 (3.9) | | | | 54,0 (180) | | | | 2,1 (4.5) | 1,8 (3.9) |
| | 56,0 (190) | | | 2,0 (4.0) | 1,6 () | | | | 56,0 (190) | | | | | 1,6 () |
| | 60,0 (200) | | | 1,6 (3.3) | | | | | 60,0 (200) | | | | | |

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

Clamshell

Boom:

Welded lattice construction using tubular, high-tensile steel

chords with pin connections between sections.

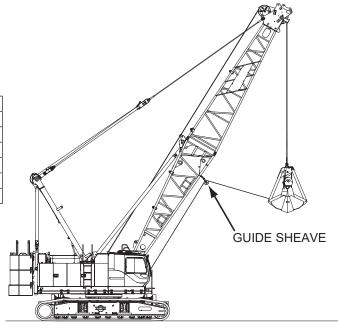
Basic boom length: 15,2 m (50 ft) Max. boom length: 30,5 m (100 ft)

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

Boom component chart

| Boom length m (ft) | Boom arrangement |
|------------------------|--|
| 15,2 (50) | Base-Tip |
| 18,3 <mark>(60)</mark> | Base-A-Tip |
| 21,3 (70) | Base-A-A-Tip, Base-B-Tip |
| 24,4 (80) | Base-A-B-Tip |
| 27,4 (90) | Base-A-A-B-Tip, Base-B-B-Tip, Base-C-Tip |
| 30,5 (100) | Base-A-B-B-Tip, Base-A-C-Tip |

 $\begin{array}{l} Base = 7,6 \text{ m } (25 \text{ ft}) \\ Insert: \text{ A} = 3,05 \text{ m } (10 \text{ ft}) \\ \text{B} = 6,10 \text{ m } (20 \text{ ft}) \\ \text{C} = 12,2 \text{ m } (40 \text{ ft}) \\ Tip = 7,2 \text{ m } (25 \text{ ft}) \end{array}$



- 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

10 000 kg (22,050 lb) counterweight (one upper counterweight, crawlers extended)

kg (lb) x 1 000

| | | | ٠, ر | • | | | |
|----------------|-----------------------|----------------|----------------------|---------------|---------------|---------------|--|
| Boom m (ft) | 15,2 (50) | 18,3 (60) | 21,3 (70) | 24,4 (80) | 27,4 (90) | 30,5 (100) | |
| Radius | | | | | | | |
| 7,0 (22) | 10,0 (25.0) | | | | | | |
| 8,0 (26) | 10,0 (25.0) | | | | | | |
| 9,0 (30) | 10,0 (25.0) | 10,0 (25.0) | | | | | |
| 10,0 (34) | 10,0 (25.0) | 9,7 (25.0) | 9,7 (25.0) | | | | |
| 14,0 (45) | 10,0 (23.1) | 7,8 (22.9) | 7,8 (22.7) | 7,8 (22.5) | 7,8 (21.6) | | |
| 15,0 (50) | | 6,6 (19.8) | 6,6 (19.6) | 6,6 (19.4) | 6,6 (19.2) | 6,6 (18.5) | |
| 17,0 (55) | | 5,7 (12.5) | 5,7 (17.2) | 5,7 (17.0) | 5,7 (16.8) | 5,7 (16.5) | |
| 18,0 (60) | | | 5,0 (15.2) | 5,0 (15.0) | 5,0 (14.8) | 5,0 (14.6) | |
| 21,0 (70) | | | | 4,4 (11.9) | 4,3 (11.7) | 4,2 (11.5) | |
| 24,0 (80) | | | | | _ (9.5) | _ (9.3) | |
| 25,0 (85) | | | | | | (8.4) | |
| 27,0 (90) | | | | | | _ (7.7) | |

Manitowoc Crane Care

Crane Care is Manitowoc's comprehensive service and support program. It includes classroom and on-site training, prompt parts availability, expert field service, technical support and documentation.

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- Intro to Canbus and Canbus 1, 2, 3
- Intro to EPIC and EPIC 1, 2, 3
- Small Crawler 1
- Canbus 1 and 2 assembly, operation and maintenance
- EPIC 1 and 2 assembly, operation and maintenance

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- Crane operator's manual
- Crane parts manual
- Crane capacity manual
- Crane vendor manual
- Crane service manual
- Luffing jib operator's/parts manual
- Capacity chart manual attachments

Available from your Authorized Manitowoc Cranes Distributor, these videos are available in NTSC, PAL, SECAM, and DVD formats.

- Your Capacity Chart Video
- Respect the Limits Video
- Crane Safety Video
- Boom Inspection/Repair Video

Crane Care Package

Manitowoc has assembled all of the available literature, CD's and videos listed above plus several Manitowoc premiums into one complete Crane Care Package, which is supplied to the owner of each new crane.

Notes



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