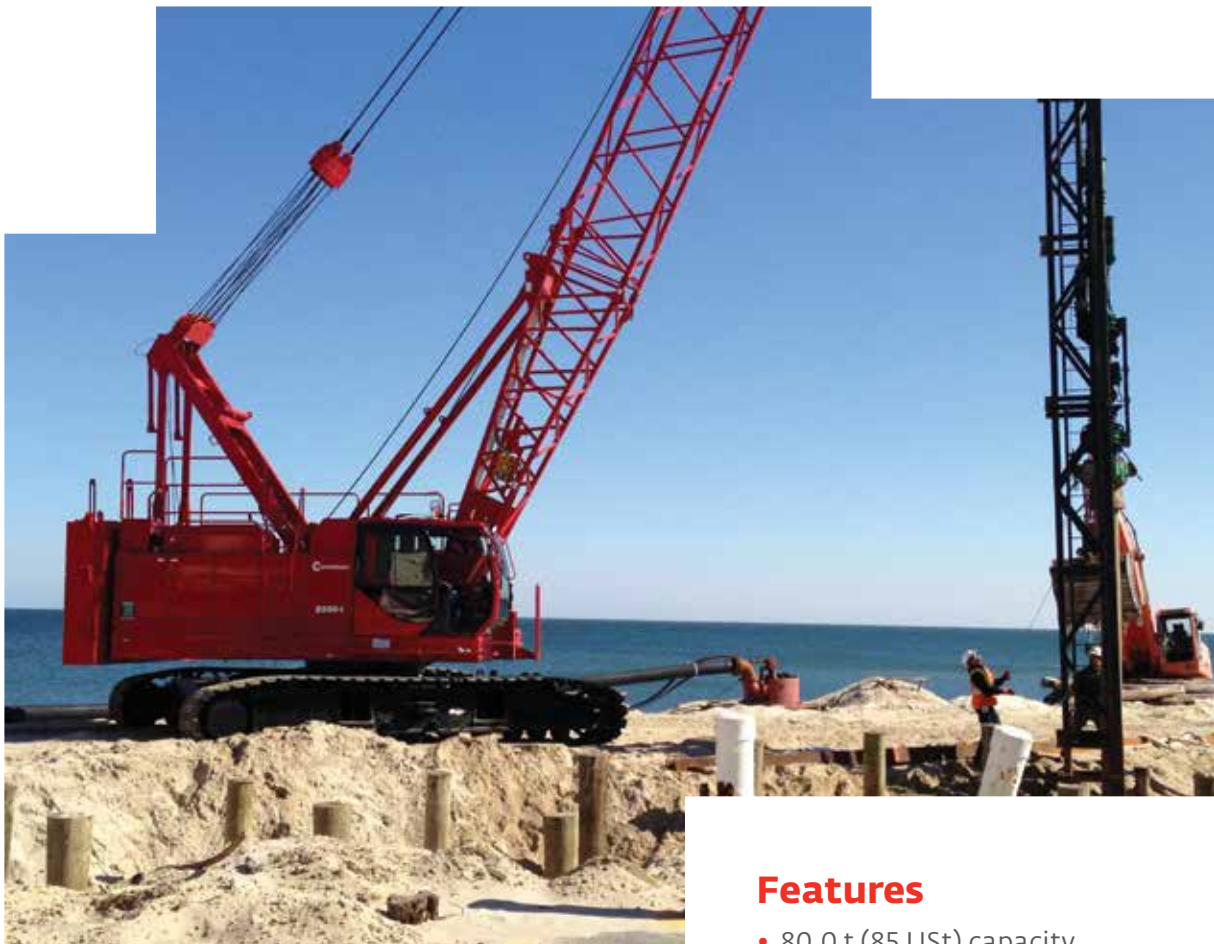


# Manیتowoc 8500-1

## Product Guide

ASME B30.5  
Metric / Imperial



### Features

- 80,0 t (85 USt) capacity
- 61 m (200 ft) heavy-lift boom
- Max boom + jib combination:  
54,9 m (180 ft) + 18,3 m (60 ft)
- 213 kW (285 HP) engine
- 160 m/min (525 fpm) maximum line speed
- 75,6 kN (17,000 lb) rated line pull

# Features



## **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.

## **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.

# Contents

|                                    |    |
|------------------------------------|----|
| Specifications                     | 4  |
| Outline dimensions                 | 7  |
| Winch performance data             | 12 |
| Load chart notes                   | 13 |
| Boom combinations                  | 14 |
| Heavy-lift boom range / charts     | 16 |
| Fixed jib boom range / load charts | 18 |
| Clamshell                          | 21 |
| Manitowoc Crane Care               | 22 |

# 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 (3,989 psi)

**Control system** . . . . . 5.4 MPa (783 psi)



### 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 right propel circuit and boom hoist circuit, and can accommodate an optional third circuit. Another is used in the left propel 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 (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.

**Brakes:** spring set, hydraulically-released, multiple-disk holding brake is mounted on the hoist motor and is operated through a counter-balance valve. An external ratchet is fitted for locking the drums.

**Drums:** (front and rear) 545 mm (21.5") P.C.D. x 550 mm (21.7") wide drums, grooved for 22.0 mm wire rope.

#### Wire rope capacity:

Front drum . . . . . 265 m (869 ft) working length

Rear drum . . . . . 205 m (673 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:** free-fall is optional; drum grooved for 22 mm wire rope.

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

# Specifications



## 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.

### Line speed:

**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. Hydraulic lift is standard. It provides full up, full down positions.



## Counterweight

Upper weight (5 pieces): 26,120 kg (57,584 lb)  
Carbody weight (2 pieces): 6,500 kg (14,330 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. 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. 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 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 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 four point sheaves are standard.

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

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 the 3,0 m (10'), 6,1 m (20'), 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') consists of jib butt section 4,57 m (15') and jib top section 4,57 (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 54,9 m (180') + 18 m (60') is 73,1 m (240').

# Specifications

## Tools and accessories

A set of tools and accessories are furnished.

## Optional Equipment

- ▶ Optional: blocks and hooks each with roller bearing sheaves grooved for 22 mm diameter wire rope, and roller bearing swivel with hook latch.
- ▶ 7,7 t ball hook, 160 kg, wedge socket for 22 mm wire rope. (12 USt ball hook, 722 lb wedge socket for 22 mm wire rope.)
- ▶ 19 t hook block, 400 kg with one 500 mm Nominal O.D. roller bearing sheave.
- ▶ 32 t hook block, 500 kg with two 500 mm Nominal O.D. roller bearing sheaves.
- ▶ 60 USt hook block, 2,486 lb, with four 24" Nominal O.D. roller bearing sheaves.
- ▶ 80 t hook block, 800 kg, with five 500 mm Nominal O.D. roller bearing sheaves. (90 USt hook block, 2,892 lb with five 24" Nominal O.D. roller bearing sheaves.)
- ▶ Optional: Detachable upper boom point with one 561 mm Nominal O. D. roller bearing steel sheave grooved for 22 mm rope for liftcrane.

## Working weight

Approximately 75,100 kg (165,600 lb) including upperworks and lowerworks, full upper counterweights, full carbody counterweights and 12,2 m (40') basic boom.

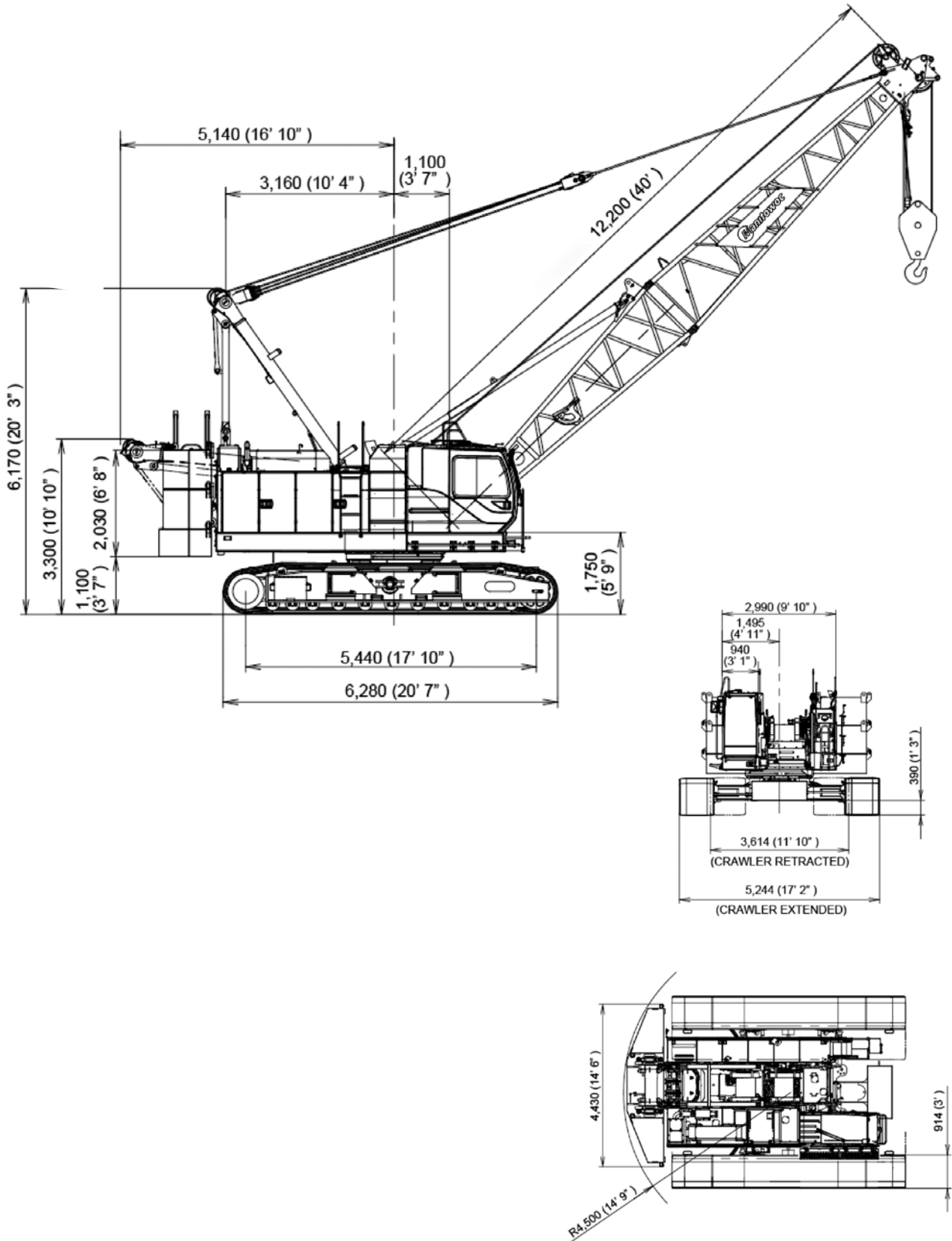
## Ground pressure

Approximately 74,2 kPa (10.8 psi) with basic boom.

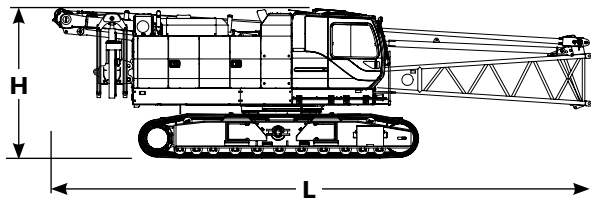
## Gradeability

With basic boom: 40%.

# Outline dimensions

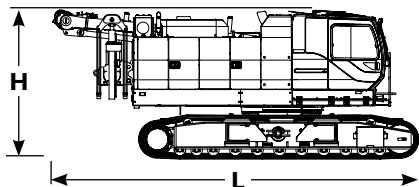


# Outline dimensions



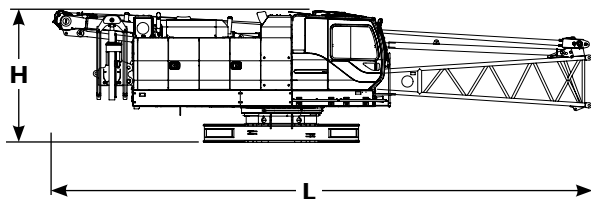
| Upperworks |           | x 1       |
|------------|-----------|-----------|
| Length     | 12,09 m   | 39' 8"    |
| Width      | 3,61 m    | 11' 10"   |
| Height     | 3,30 m    | 10' 10"   |
| Weight     | 41 580 kg | 91,677 lb |

*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.*



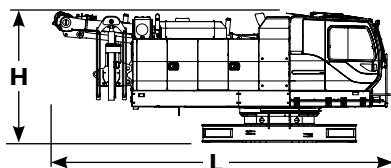
| Upperworks |           | x 1       |
|------------|-----------|-----------|
| Length     | 8,21 m    | 27' 0"    |
| Width      | 3,61 m    | 11' 10"   |
| Height     | 3,30 m    | 10' 10"   |
| Weight     | 39 660 kg | 87,434 lb |

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



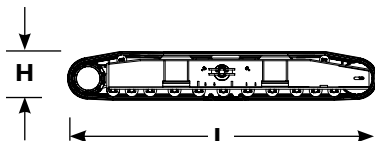
| Upperworks without crawlers |           | x 1       |
|-----------------------------|-----------|-----------|
| Length                      | 12,09 m   | 39' 8"    |
| Width                       | 2,99 m    | 9' 10"    |
| Height                      | 2,91 m    | 9' 7"     |
| Weight                      | 26 330 kg | 57,981 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                      | 2,94 m    | 9' 8"     |
| Weight                      | 24 380 kg | 53,748 lb |

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

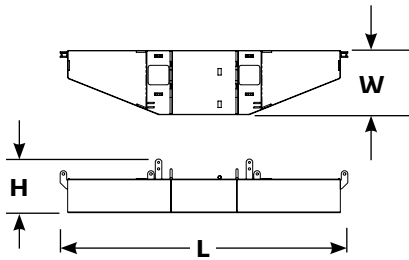


| Crawlers |          | x 2       |
|----------|----------|-----------|
| Length   | 6,28 m   | 20' 7"    |
| Width    | 0,91 m   | 3' 0"     |
| Height   | 0,98 m   | 3' 3"     |
| Weight   | 7 640 kg | 16,843 lb |

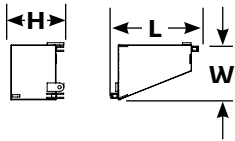
Option



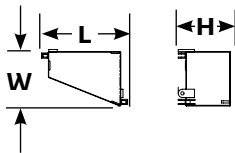
# Outline dimensions



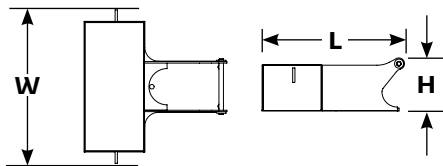
| Upper counterweight |          | x 1       |
|---------------------|----------|-----------|
| Length              | 4,43 m   | 14' 6"    |
| Width               | 0,99 m   | 3' 3"     |
| Height              | 0,83 m   | 2' 9"     |
| Weight              | 9 320 kg | 20,550 lb |



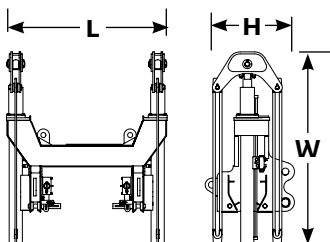
| Upper counterweight (R) |          | x 2      |
|-------------------------|----------|----------|
| Length                  | 1,45 m   | 4' 9"    |
| Width                   | 0,95 m   | 3' 1"    |
| Height                  | 0,88 m   | 2' 11"   |
| Weight                  | 4 200 kg | 9,260 lb |



| Upper counterweight (L) |          | x 2      |
|-------------------------|----------|----------|
| Length                  | 1,45 m   | 4' 9"    |
| Width                   | 0,95 m   | 3' 1"    |
| Height                  | 0,88 m   | 2' 11"   |
| Weight                  | 4 200 kg | 9,260 lb |

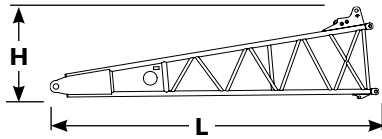


| Carbody counterweight |          | x 2      |
|-----------------------|----------|----------|
| Length                | 1,58 m   | 5' 2"    |
| Width                 | 1,69 m   | 5' 7"    |
| Height                | 0,59 m   | 1' 11"   |
| Weight                | 3 250 kg | 7,165 lb |

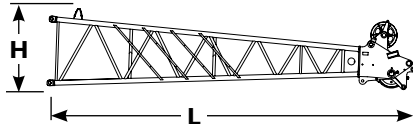


| Self removal unit |        | x 1      |
|-------------------|--------|----------|
| Length            | 1,59 m | 5' 3"    |
| Width             | 1,90 m | 6' 3"    |
| Height            | 0,88 m | 2' 11"   |
| Weight            | 860 kg | 1,896 lb |

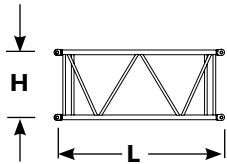
# Outline dimensions



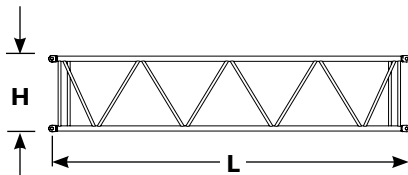
| Boom butt 5,8 m (19') |          |            |
|-----------------------|----------|------------|
|                       |          | <b>x 1</b> |
| Length                | 5,97 m   | 19' 7"     |
| Width                 | 1,42 m   | 4' 8"      |
| Height                | 1,69 m   | 5' 7"      |
| Weight                | 1 055 kg | 2,326 lb   |



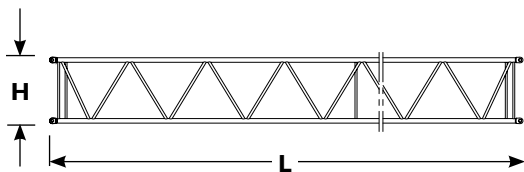
| Boom top 6,4 m (21') |          |            |
|----------------------|----------|------------|
|                      |          | <b>x 1</b> |
| Length               | 6,90 m   | 22' 8"     |
| Width                | 1,38 m   | 4' 6"      |
| Height               | 1,48 m   | 4' 10"     |
| Weight               | 1 010 kg | 2,227 lb   |



| Boom insert 3,0 m (10') |        |              |
|-------------------------|--------|--------------|
|                         |        | <b>x 1,2</b> |
| Length                  | 3,16 m | 10' 4"       |
| Width                   | 1,36 m | 4' 6"        |
| Height                  | 1,31 m | 4' 4"        |
| Weight                  | 270 kg | 590 lb       |

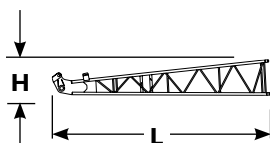


| Boom insert 6,10 m (20') |        |              |
|--------------------------|--------|--------------|
|                          |        | <b>x 1,2</b> |
| Length                   | 6,21 m | 20' 5"       |
| Width                    | 1,36 m | 4' 6"        |
| Height                   | 1,31 m | 4' 4"        |
| Weight                   | 465 kg | 1,025 lb     |



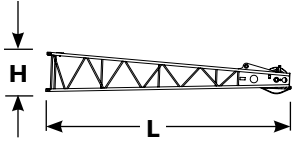
| Boom insert 12,2 m (40') |         |                |
|--------------------------|---------|----------------|
|                          |         | <b>x 1,2,3</b> |
| Length                   | 12,31 m | 40' 5"         |
| Width                    | 1,36 m  | 4' 6"          |
| Height                   | 1,31 m  | 4' 4"          |
| Weight                   | 860 kg  | 1,896 lb       |

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

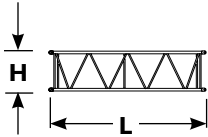


| Fixed jib butt |        |            |
|----------------|--------|------------|
|                |        | <b>x 1</b> |
| Length         | 4,81 m | 15' 9"     |
| Width          | 0,80 m | 2' 8"      |
| Height         | 0,80 m | 2' 8"      |
| Weight         | 200 kg | 440 lb     |

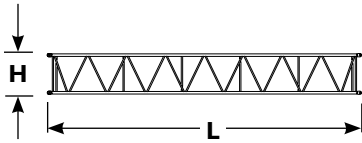
# Outline dimensions



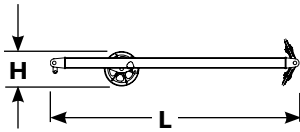
| Fixed jib top x 1 |        |        |
|-------------------|--------|--------|
| Length            | 4,91 m | 16' 1" |
| Width             | 0,79 m | 2' 7"  |
| Height            | 0,80 m | 2' 8"  |
| Weight            | 220 kg | 485 lb |



| 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                         | 95 kg  | 210 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                           | 175 kg | 390 lb |



| Fixed jib strut x 1 |        |         |
|---------------------|--------|---------|
| Length              | 3,62 m | 11' 11" |
| Width               | 0,84 m | 2' 9"   |
| Height              | 0,50 m | 1' 8"   |
| Weight              | 207 kg | 456 lb  |

# Winch performance data

| Line pull         |                            |                               |
|-------------------|----------------------------|-------------------------------|
|                   | Rated line pull<br>kg (lb) | *Maximum line pull<br>kg (lb) |
| Front drum        | 7700<br>(17,000)           | 15,600<br>(34,400)            |
| Rear drum         | 7700<br>(17,000)           | 15,600<br>(34,400)            |
| Optional 3rd drum | 7700<br>(17,000)           | 15,600<br>(34,400)            |

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

| Wire rope specifications |                        |                     |                             |                                 |
|--------------------------|------------------------|---------------------|-----------------------------|---------------------------------|
| Use                      | Specs                  | Diameter<br>mm (in) | Working<br>length<br>m (ft) | Breaking<br>strength<br>kg (lb) |
| Front drum               | IWRCC/O<br>6 X Fi (29) | 22,0                | 265<br>(869)                | 37 015<br>(81,570)              |
| Rear drum                | IWRCC/O<br>6 X Fi (29) | 22,0                | 205<br>(672)                | 37 015<br>(81,570)              |
| Boom hoist drum          | IWRCC/O<br>6 X Fi (31) | 22,0                | 150<br>(492)                | 21 400<br>(47,210)              |
| Optional 3rd drum        | IWRCC/O<br>6 X Fi (29) | 22,0                | 145<br>(476)                | 37 015<br>(81,570)              |

| Front and rear winch |                             |                              |              |              |              |              |              |
|----------------------|-----------------------------|------------------------------|--------------|--------------|--------------|--------------|--------------|
| Layer                | Single line pull<br>kg (lb) | Line speed<br>m/min (ft/min) |              |              |              |              |              |
|                      |                             | 1                            | 2            | 3            | 4            | 5            | 6            |
| Rated line pull      | 0<br>(0)                    | 120<br>(394)                 | 128<br>(420) | 136<br>(446) | 144<br>(495) | 152<br>(499) | 160<br>(525) |
|                      | 2 268<br>(5,000)            | 120<br>(394)                 | 128<br>(420) | 136<br>(466) | 144<br>(495) | 152<br>(499) | 160<br>(525) |
|                      | 4 536<br>(10,000)           | 108<br>(353)                 | 108<br>(353) | 108<br>(353) | 108<br>(353) | 108<br>(353) | 108<br>(353) |
|                      | 6 804<br>(15,000)           | 72<br>(235)                  | 72<br>(235)  | 72<br>(235)  | 72<br>(235)  | 72<br>(235)  | 72<br>(235)  |
|                      | 7 711<br>(17,000)           | 63<br>(208)                  | 63<br>(208)  | 63<br>(208)  | 63<br>(208)  | 63<br>(208)  | 63<br>(208)  |
|                      | 9 072<br>(20,000)           | 54<br>(176)                  | 54<br>(176)  | 54<br>(176)  | 54<br>(176)  | 55<br>(179)  | 56<br>(182)  |
|                      | 11 340<br>(25,000)          | 43<br>(141)                  | 44<br>(146)  | 45<br>(148)  | 45<br>(149)  | 45<br>(149)  | —<br>—       |
|                      | 13 608<br>(30,000)          | 38<br>(123)                  | —<br>—       | —<br>—       | —<br>—       | —<br>—       | —<br>—       |

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.
- 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 deduced as shown below.

| Jib length m<br>(ft) | Upper boom point | 9,1<br>(30)     | 12,2<br>(40)    | 15,2<br>(50)    | 18,3<br>(60)    |
|----------------------|------------------|-----------------|-----------------|-----------------|-----------------|
| Deduct kg<br>(lb)    | 200<br>(320)     | 1100<br>(2,400) | 1500<br>(3,200) | 2000<br>(4,200) | 2400<br>(5,200) |

- The total load that can be lifted by the jib is limited by rated jib loads.
- Boom lengths for jib mounting are 24,4 m (80 ft) to 54,9 m (180 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 200 kg (320 lb); however, the upper boom point rated load should not exceed 7 700 kg (17,000 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 54,9 m (180 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<br>(lb) | 7 700<br>(17,000) | 15 400<br>(34,000) | 23 100<br>(51,000) | 30 800<br>(64,000) | 38 500<br>(85,000) |

| No. of parts of line     | 6                   | 7                   | 8                   | 9                   | 10                  |
|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Maximum loads kg<br>(lb) | 46 200<br>(102,000) | 53 900<br>(119,000) | 61 600<br>(136,000) | 69 400<br>(153,000) | 80 000<br>(170,000) |

## Maximum load for fixed jib

| No. of parts of line     | 1                 | 2                  |
|--------------------------|-------------------|--------------------|
| Maximum loads kg<br>(lb) | 7 700<br>(17,000) | 10 800<br>(24,000) |

## Maximum load for upper boom point

| No. of parts of line     | 1                 |
|--------------------------|-------------------|
| Maximum loads kg<br>(lb) | 7 700<br>(17,000) |

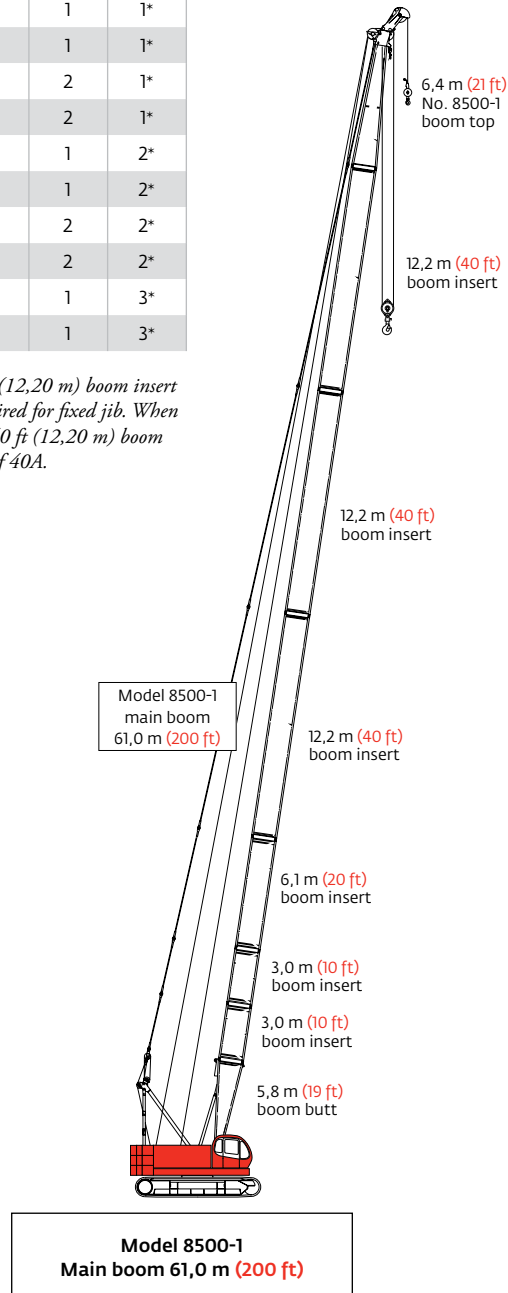
- Lifting capacities listed apply only to the machine as originally manufactured for and supplied by Manitowoc Cranes, Inc. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
- Designed and rated to comply with ASME Code B30.5.

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

# Boom combinations

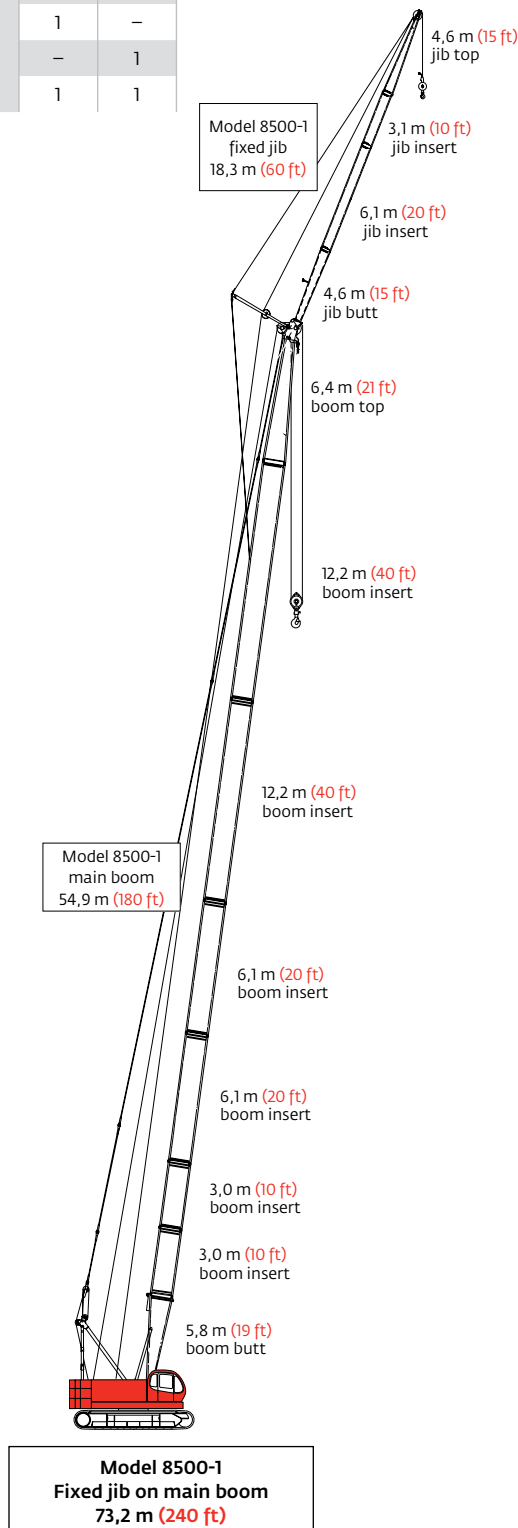
| No. 8500-1 heavy-lift boom combinations |                  |                  |                   |
|---|------------------|------------------|-------------------|
| Boom length<br>m (ft)                   | Boom inserts     |                  |                   |
|   | 3,1 m<br>(10 ft) | 6,1 m<br>(20 ft) | 12,2 m<br>(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.



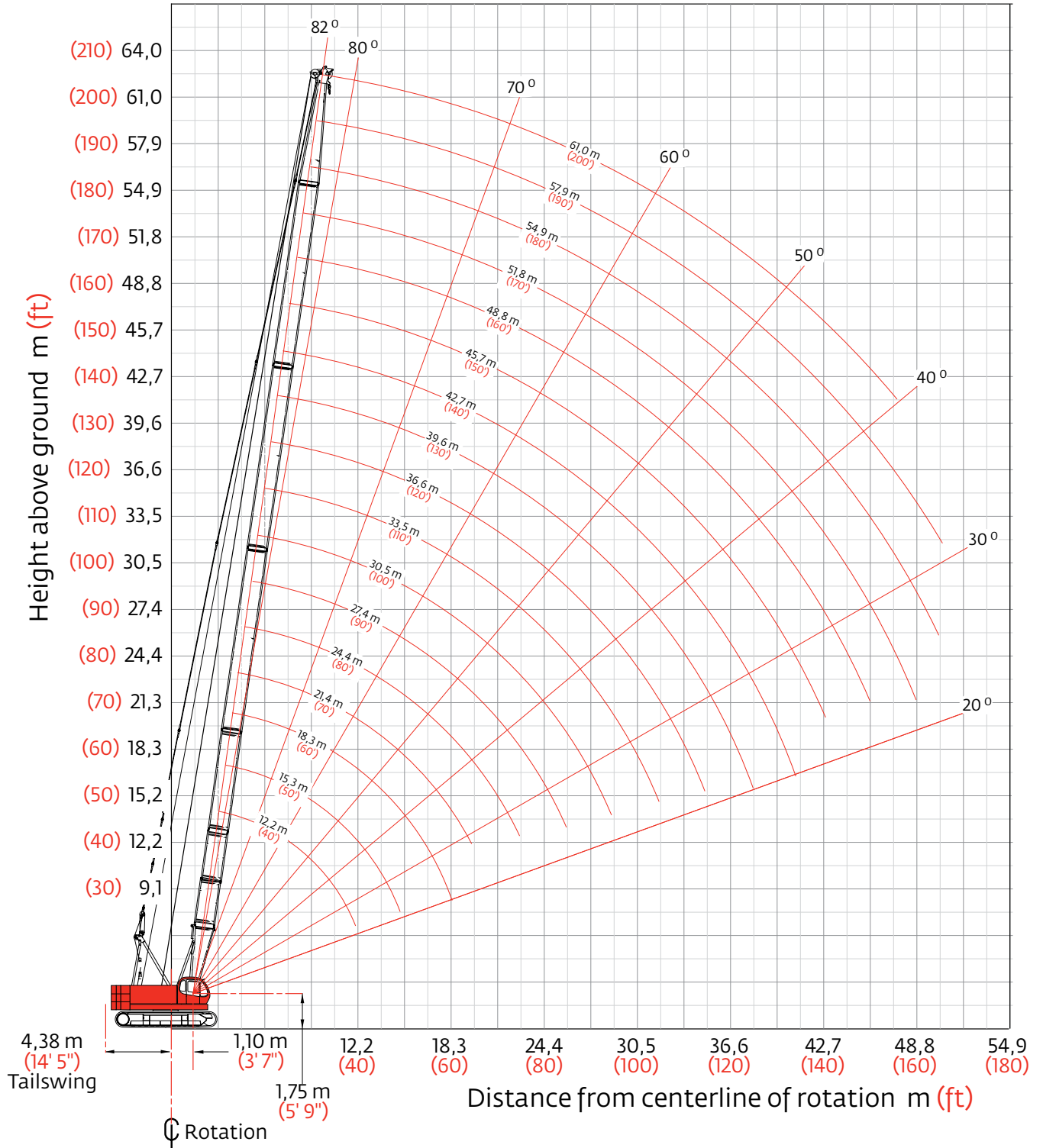
# Boom combinations

| No. 8500-1 fixed jib combinations |                   |                  |
|-----------------------------------|-------------------|------------------|
| Fixed jib length<br>m (ft)        | Fixed jib inserts |                  |
|                                   | 3,1 m<br>(10 ft)  | 6,1 m<br>(20 ft) |
| 9,1 (30)                          | –                 | –                |
| 12,2 (40)                         | 1                 | –                |
| 15,2 (50)                         | –                 | 1                |
| 18,3 (60)                         | 1                 | 1                |



# Heavy-lift boom range diagram

No. 8500-1 main boom





# Heavy-lift boom load charts

## Model 8500-1 liftcrane boom capacities - 8500-1 main boom

26 120 kg (57,584 lb) crane counterweight

6 500 kg (14,330 lb) carbody counterweight crawler extended

360° Rating

kg (lb) x1 000

| Boom<br>m (ft) | 12,2<br>(40)     | 15,2<br>(50)     | 18,3<br>(60)     | 24,4<br>(80)     | 30,5<br>(100)   | 36,6<br>(120)   | 42,7<br>(140)   | 48,8<br>(160)   | 54,9<br>(180)   | 57,9<br>(190)   | 61,0<br>(200)   |
|----------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Radius         |                  |                  |                  |                  |                 |                 |                 |                 |                 |                 |                 |
| 3,0<br>(11)    | 80,0*<br>(170.0) |                  |                  |                  |                 |                 |                 |                 |                 |                 |                 |
| 3,5<br>(12)    | 76,3*<br>(166.6) | —<br>(166.4)*    |                  |                  |                 |                 |                 |                 |                 |                 |                 |
| 4,0<br>(14)    | 69,5*<br>(144.2) | 69,5*<br>(144.0) | 69,3*<br>(143.8) |                  |                 |                 |                 |                 |                 |                 |                 |
| 4,5<br>(16)    | 62,2*<br>(127.1) | 62,1*<br>(126.9) | 62,0*<br>(126.7) | —<br>(126.3)*    |                 |                 |                 |                 |                 |                 |                 |
| 5,5<br>(18)    | 51,2*<br>(113.4) | 51,1*<br>(113.2) | 51,1*<br>(113.0) | 50,9*<br>(112.6) |                 |                 |                 |                 |                 |                 |                 |
| 6,0<br>(20)    | 45,4<br>(97.5)   | 45,3<br>(97.4)   | 45,2<br>(97.1)   | 45,1<br>(96.9)   | 44,6*<br>(96.8) |                 |                 |                 |                 |                 |                 |
| 7,0<br>(24)    | 35,9<br>(74.0)   | 35,8<br>(73.8)   | 35,7<br>(73.6)   | 35,6<br>(73.3)   | 35,5<br>(73.1)  | 34,9*<br>(73.0) | —<br>(61.7)*    |                 |                 |                 |                 |
| 8,0<br>(28)    | 29,5<br>(59.5)   | 29,4<br>(59.2)   | 29,3<br>(58.9)   | 29,2<br>(58.7)   | 29,1<br>(58.4)  | 29,0<br>(58.3)  | 27,4*<br>(57.9) | —<br>(44.0)*    |                 |                 |                 |
| 10,0<br>(34)   | 21,7<br>(45.7)   | 21,6<br>(45.5)   | 21,5<br>(45.2)   | 21,3<br>(44.8)   | 21,2<br>(44.5)  | 21,1<br>(44.3)  | 21,0<br>(44.0)  | 19,2*<br>(42.1) | 14,9*<br>(32.6) | 13,2*<br>(28.8) | —<br>(25.7)*    |
| 12,0<br>(40)   | 16,4*<br>(34.8)  | 17,0<br>(36.8)   | 16,8<br>(36.4)   | 16,7<br>(36.0)   | 16,5<br>(35.7)  | 16,4<br>(35.4)  | 16,3<br>(35.1)  | 16,2<br>(34.9)  | 14,1*<br>(31.0) | 12,5*<br>(27.5) | 11,1*<br>(24.4) |
| 14,0<br>(45)   |                  | 13,9*<br>(31.6)  | 13,8<br>(31.2)   | 13,6<br>(30.8)   | 13,4<br>(30.5)  | 13,3<br>(30.2)  | 13,2<br>(29.9)  | 13,1<br>(29.7)  | 12,9<br>(29.2)  | 11,9*<br>(26.4) | 10,5*<br>(23.3) |
| 16,0<br>(55)   |                  |                  | 11,6<br>(24.2)   | 11,4<br>(23.7)   | 11,2<br>(23.3)  | 11,1<br>(23.0)  | 11,0<br>(22.6)  | 10,9<br>(22.4)  | 10,7<br>(22.0)  | 10,7<br>(22.1)  | 9,9*<br>(21.3)  |
| 22,0<br>(75)   |                  |                  |                  | 7,5<br>(15.9)    | 7,3<br>(15.4)   | 7,1<br>(15.0)   | 7,0<br>(14.6)   | 6,9<br>(14.3)   | 6,7<br>(13.9)   | 6,7<br>(13.9)   | 6,6<br>(13.7)   |
| 28,0<br>(95)   |                  |                  |                  |                  | 5,3<br>(11.2)   | 5,1<br>(10.7)   | 4,9<br>(10.2)   | 4,7<br>(10.0)   | 4,5<br>(9.5)    | 4,5<br>(9.5)    | 4,4<br>(9.3)    |
| 32,0<br>(105)  |                  |                  |                  |                  |                 | 4,2<br>(9.2)    | 3,9<br>(8.7)    | 3,8<br>(8.5)    | 3,6<br>(8.0)    | 3,6<br>(8.0)    | 3,5<br>(7.8)    |
| 34,0<br>(115)  |                  |                  |                  |                  |                 | 3,8<br>(8.1)    | 3,6<br>(7.6)    | 3,4<br>(7.2)    | 3,2<br>(6.7)    | 3,2<br>(6.8)    | 3,1<br>(6.5)    |
| 38,0<br>(125)  |                  |                  |                  |                  |                 |                 | 3,0<br>(6.6)    | 2,8<br>(6.2)    | 2,6<br>(5.7)    | 2,6<br>(5.7)    | 2,4<br>(5.4)    |
| 40,0<br>(135)  |                  |                  |                  |                  |                 |                 | 2,7<br>(5.9)    | 2,6<br>(5.4)    | 2,3<br>(4.7)    | 2,3<br>(4.8)    | 2,1<br>(4.5)    |
| 44,0<br>(145)  |                  |                  |                  |                  |                 |                 |                 | 2,1<br>(4.7)    | 1,8<br>(4.0)    | 1,8<br>(4.0)    | 1,7<br>(3.7)    |
| 46,0<br>(155)  |                  |                  |                  |                  |                 |                 |                 |                 | 1,6<br>(3.3)    | 1,6<br>(3.3)    | 1,4<br>(3.0)    |
| 52,0<br>(170)  |                  |                  |                  |                  |                 |                 |                 |                 | 1,1<br>(2.6)    | —<br>(2.5)      |                 |

Meets ANDI B30.5 requirements – Capacities do not exceed 75% of static tipping load.

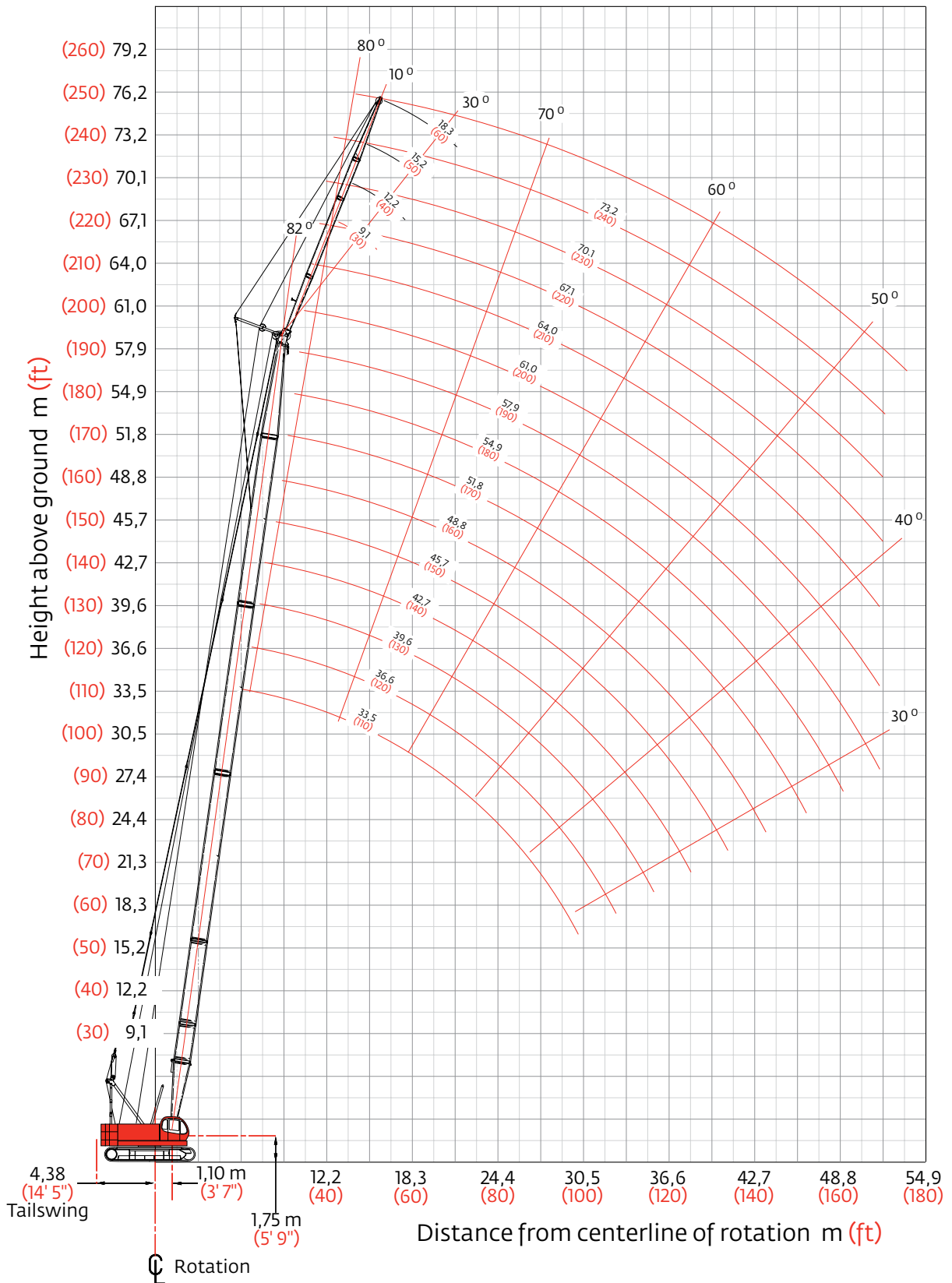
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

For complete chart, refer to [www.cranelibrary.com](http://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 range diagram

No. 8500-1 fixed jib on main boom



# Fixed jib load charts

## Model 8500-1 liftcrane jib capacities

### No. 8500-1 fixed jib on main boom

26 120 kg (57,584 lb) crane counterweight; 6 500 kg (14,330 lb) carbody counterweight crawler extended

360° Rating

kg (lb) x 1 000

#### 10° offset

#### 30° offset

| Boom<br>m (ft) | 24,4<br>(80)    | 30,5<br>(100)   | 39,6<br>(130)   | 48,8<br>(160)   | 54,9<br>(180)  |
|----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| Radius         |                 |                 |                 |                 |                |
| 10,0<br>(30)   | 10,8*<br>(24.0) | 10,8*<br>(-)    | 10,8*<br>(-)    |                 |                |
| 12,0<br>(40)   | 10,8*<br>(24.0) | 10,8*<br>(24.0) | 10,8*<br>(24.0) |                 |                |
| 14,0<br>(50)   | 10,8*<br>(24.0) | 10,8*<br>(24.0) | 10,8*<br>(24.0) | 10,8*<br>(24.0) | 8,9*<br>(19.7) |
| 18,0<br>(60)   | 9,8<br>(21.3)   | 9,6<br>(20.8)   | 9,4<br>(20.3)   | 9,1<br>(19.7)   | 8,5*<br>(18.7) |
| 24,0<br>(80)   | 6,7<br>(14.4)   | 6,4<br>(13.9)   | 6,2<br>(13.3)   | 5,9<br>(12.7)   | 5,7<br>(12.3)  |
| 30,0<br>(100)  | 4,9<br>(10.6)   | 4,6<br>(10.0)   | 4,3<br>(9.4)    | 4,1<br>(8.8)    | 3,9<br>(8.3)   |
| 36,0<br>(120)  |                 | 3,6<br>(-)      | 3,2<br>(6.9)    | 2,9<br>(6.2)    | 2,7<br>(5.8)   |
| 42,0<br>(140)  |                 |                 | 2,3<br>(5.2)    | 2,0<br>(4.4)    | 1,8<br>(3.7)   |
| 44,0<br>(150)  |                 |                 |                 | 1,8<br>(3.6)    | 1,5<br>(2.9)   |
| 48,0<br>(160)  |                 |                 |                 | 1,3<br>(2.9)    | 1,1<br>(-)     |
| 52,0<br>(170)  |                 |                 |                 |                 |                |

| Boom<br>m (ft) | 24,4<br>(80)   | 30,5<br>(100)  | 39,6<br>(130)  | 48,8<br>(160)  | 54,9<br>(180)  |
|----------------|----------------|----------------|----------------|----------------|----------------|
| Radius         |                |                |                |                |                |
| 10,0<br>(30)   |                |                |                |                |                |
| 12,0<br>(40)   | 9,0*<br>(19.7) |                |                |                |                |
| 14,0<br>(50)   | 8,3*<br>(17.6) | 8,7*<br>(18.5) | -<br>(19.6)    |                |                |
| 18,0<br>(60)   | 7,3*<br>(15.9) | 7,7*<br>(16.9) | 8,2*<br>(18.0) | 8,6*<br>(18.9) | 8,4*<br>(18.5) |
| 24,0<br>(80)   | 6,2*<br>(13.7) | 6,5*<br>(14.3) | 6,4<br>(13.7)  | 6,1<br>(13.2)  | 6,0<br>(12.9)  |
| 30,0<br>(100)  |                |                | 4,5<br>(9.7)   | 4,2<br>(9.1)   | 4,1<br>(8.7)   |
| 36,0<br>(120)  |                |                |                | 3,0<br>(6.5)   | 2,8<br>(6.1)   |
| 42,0<br>(140)  |                |                |                |                | 1,9<br>(4.0)   |
| 44,0<br>(150)  |                |                |                |                | 1,6<br>(-)     |
| 48,0<br>(160)  |                |                |                |                |                |
| 52,0<br>(170)  |                |                |                |                |                |

| Boom<br>m (ft) | 24,4<br>(80)    | 30,5<br>(100)   | 39,6<br>(130)   | 48,8<br>(160)   | 54,9<br>(180)  |
|----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| Radius         |                 |                 |                 |                 |                |
| 10,0<br>(30)   | 10,8*<br>(-)    | 10,8*<br>(-)    |                 |                 |                |
| 12,0<br>(40)   | 10,8*<br>(24.0) | 10,8*<br>(24.0) | 10,8*<br>(-)    |                 |                |
| 14,0<br>(50)   | 10,7*<br>(22.1) | 10,8*<br>(24.0) | 10,8*<br>(24.0) | 10,3*<br>(22.8) |                |
| 18,0<br>(60)   | 8,6*<br>(18.8)  | 9,6*<br>(20.9)  | 9,5<br>(20.5)   | 9,2*<br>(20.3)  | 8,1*<br>(17.8) |
| 24,0<br>(80)   | 6,6*<br>(14.5)  | 6,5<br>(14.1)   | 6,2<br>(13.5)   | 6,0<br>(12.9)   | 5,8<br>(12.5)  |
| 30,0<br>(100)  | 4,9<br>(10.7)   | 4,7<br>(10.2)   | 4,4<br>(9.5)    | 4,1<br>(8.9)    | 4,0<br>(8.5)   |
| 36,0<br>(120)  |                 | 3,5<br>(7.6)    | 3,2<br>(7.0)    | 2,9<br>(6.4)    | 2,8<br>(5.9)   |
| 42,0<br>(140)  |                 |                 | 2,4<br>(5.2)    | 2,1<br>(4.5)    | 1,8<br>(3.9)   |
| 44,0<br>(150)  |                 |                 | 2,2<br>(4.6)    | 1,9<br>(3.7)    | 1,6<br>(3.1)   |
| 48,0<br>(160)  |                 |                 |                 | 1,4<br>(3.0)    | 1,2<br>(-)     |
| 52,0<br>(170)  |                 |                 |                 |                 |                |

| Boom<br>m (ft) | 24,4<br>(80)   | 30,5<br>(100)  | 39,6<br>(130)  | 48,8<br>(160)  | 54,9<br>(180)  |
|----------------|----------------|----------------|----------------|----------------|----------------|
| Radius         |                |                |                |                |                |
| 10,0<br>(30)   |                |                |                |                |                |
| 12,0<br>(40)   | 6,9*<br>(-)    |                |                |                |                |
| 14,0<br>(50)   | 6,8*<br>(14.4) | 6,8*<br>(15.1) |                |                |                |
| 18,0<br>(60)   | 5,9*<br>(12.9) | 6,2*<br>(13.6) | 6,6*<br>(14.5) | 6,8*<br>(15.1) |                |
| 24,0<br>(80)   | 5,0*<br>(10.9) | 5,3*<br>(11.6) | 5,7*<br>(12.5) | 6,0*<br>(13.2) | 6,2*<br>(13.5) |
| 30,0<br>(100)  |                | 4,7*<br>(10.3) | 4,6<br>(10.0)  | 4,5<br>(9.6)   | 4,3<br>(9.3)   |
| 36,0<br>(120)  |                |                | 3,4<br>(7.4)   | 3,2<br>(6.9)   | 3,0<br>(6.5)   |
| 42,0<br>(140)  |                |                |                | 2,3<br>(5.0)   | 2,1<br>(4.5)   |
| 44,0<br>(150)  |                |                |                |                | 1,8<br>(3.6)   |
| 48,0<br>(160)  |                |                |                |                |                |
| 52,0<br>(170)  |                |                |                |                |                |

For complete chart, refer to [www.cranelibrary.com](http://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 8500-1 liftcrane jib capacities No. 8500-1 fixed jib on main boom

26 120 kg (57,584 lb) crane counterweight; 6 500 kg (14,330 lb) carbody counterweight crawler extended

360° Rating

kg (lb) x 1 000

|                    |               | 10° offset     |                |                |                |                | 30° offset     |                |                |                |                |                |  |
|--------------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|
|                    |               | 24,4<br>(80)   | 30,5<br>(100)  | 39,6<br>(130)  | 48,8<br>(160)  | 54,9<br>(180)  | Boom<br>m (ft) | 24,4<br>(80)   | 30,5<br>(100)  | 39,6<br>(130)  | 48,8<br>(160)  | 54,9<br>(180)  |  |
| jib 15,2 m (50 ft) | Radius        |                |                |                |                |                |                |                |                |                |                |                |  |
|                    | 10,0<br>(30)  | 9,0*<br>(20.0) |                |                |                |                |                |                |                |                |                |                |  |
|                    | 12,0<br>(40)  | 9,0*<br>(20.0) | 9,0*<br>(20.0) | 9,0*<br>(—)    |                |                |                |                |                |                |                |                |  |
|                    | 14,0<br>(50)  | 8,9*<br>(18.5) | 9,0*<br>(20.0) | 9,0*<br>(20.0) |                |                |                |                |                |                |                |                |  |
|                    | 18,0<br>(60)  | 7,2*<br>(15.6) | 7,9*<br>(17.2) | 8,8*<br>(19.3) | 8,7*<br>(19.2) | 7,4*<br>(17.0) |                | 4,8*<br>(10.4) | 5,0*<br>(10.9) | 5,2*<br>(11.4) | 5,1*<br>(—)    |                |  |
|                    | 24,0<br>(80)  | 5,5*<br>(12.0) | 6,1*<br>(13.3) | 6,3<br>(13.6)  | 6,1<br>(13.1)  | 5,9*<br>(12.7) |                | 4,0*<br>(8.7)  | 4,2*<br>(9.2)  | 4,5*<br>(9.8)  | 4,7*<br>(10.3) | 4,8*<br>(10.6) |  |
|                    | 30,0<br>(100) | 4,5*<br>(9.7)  | 4,7<br>(10.3)  | 4,5<br>(9.7)   | 4,2<br>(9.1)   | 4,0<br>(8.7)   |                | 3,4*<br>(7.6)  | 3,7*<br>(8.0)  | 3,9*<br>(8.7)  | 4,2*<br>(9.2)  | 4,3*<br>(9.5)  |  |
|                    | 36,0<br>(120) | 3,9*<br>(8.6)  | 3,6<br>(7.7)   | 3,3<br>(7.1)   | 3,0<br>(6.5)   | 2,8<br>(6.0)   |                |                |                | 3,5*<br>(7.6)  | 3,3<br>(7.1)   | 3,1<br>(6.8)   |  |
|                    | 42,0<br>(140) |                | 2,9<br>(—)     | 2,5<br>(5.7)   | 2,0<br>(4.6)   | 1,9<br>(4.0)   |                |                |                |                | 2,4<br>(5.2)   | 2,2<br>(4.8)   |  |
|                    | 44,0<br>(150) |                |                | 2,2<br>(4.6)   | 1,9<br>(3.1)   | 1,6<br>(3.2)   |                |                |                |                | 2,2<br>(—)     | 2,0<br>(3.9)   |  |
| 48,0<br>(160)      |               |                | 1,9<br>(4.0)   | 1,4<br>(—)     | 1,2<br>(—)     |                |                |                |                |                | 1,5<br>(3.1)   |                |  |
| 52,0<br>(170)      |               |                |                |                |                |                |                |                |                |                |                |                |  |
| jib 18,3 m (60 ft) | Radius        |                |                |                |                |                |                |                |                |                |                |                |  |
|                    | 10,0<br>(30)  |                |                |                |                |                |                |                |                |                |                |                |  |
|                    | 12,0<br>(40)  | 8,1*<br>(18.0) | 8,1*<br>(—)    |                |                |                |                |                |                |                |                |                |  |
|                    | 14,0<br>(50)  | 8,0*<br>(16.3) | 8,1*<br>(17.6) | 8,1*<br>(18.0) |                |                |                |                |                |                |                |                |  |
|                    | 18,0<br>(60)  | 6,3*<br>(13.7) | 6,9*<br>(15.0) | 7,6*<br>(16.7) | 8,0*<br>(17.8) | 6,8*<br>(15.0) |                | 4,0*<br>(8.9)  | 3,9*<br>(—)    |                |                |                |  |
|                    | 24,0<br>(80)  | 4,8*<br>(10.4) | 5,3*<br>(11.5) | 6,0*<br>(13.0) | 6,1<br>(13.2)  | 5,9*<br>(12.8) |                | 3,3*<br>(7.3)  | 3,5*<br>(7.7)  | 3,7*<br>(8.1)  | 3,9*<br>(8.5)  | 3,9*<br>(8.7)  |  |
|                    | 30,0<br>(100) | 3,8*<br>(8.3)  | 4,3*<br>(9.3)  | 4,5<br>(9.7)   | 4,2<br>(9.1)   | 4,1<br>(8.7)   |                | 2,8*<br>(6.2)  | 3,0*<br>(6.6)  | 3,2*<br>(7.1)  | 3,4*<br>(7.5)  | 3,5*<br>(7.7)  |  |
|                    | 36,0<br>(120) | 3,2*<br>(7.0)  | 3,6*<br>(7.8)  | 3,3<br>(7.1)   | 3,0<br>(6.5)   | 2,8<br>(6.1)   |                |                | 2,7*<br>(5.9)  | 2,9*<br>(6.3)  | 3,1*<br>(6.7)  | 3,2<br>(7.0)   |  |
|                    | 42,0<br>(140) |                | 2,8<br>(6.0)   | 2,5<br>(5.4)   | 2,2<br>(4.7)   | 1,9<br>(4.1)   |                |                |                | 2,6<br>(5.8)   | 2,5<br>(5.3)   | 2,3<br>(5.0)   |  |
|                    | 44,0<br>(150) |                | 2,6<br>(—)     | 2,3<br>(4.7)   | 1,9<br>(3.9)   | 1,7<br>(3.3)   |                |                |                |                | 2,2<br>(4.5)   | 2,1<br>(4.1)   |  |
| 48,0<br>(160)      |               |                | 1,9<br>(4.0)   | 1,5<br>(3.1)   | 1,2<br>(2.5)   |                |                |                |                | 1,8<br>(3.8)   | 1,6<br>(3.3)   |                |  |
| 52,0<br>(170)      |               |                | —<br>(3.4)     | 1,1<br>(2.5)   |                |                |                |                |                |                | 1,1<br>(2.6)   |                |  |

For complete chart, refer to [www.cranelibrary.com](http://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.

# 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: 21,3 m (70 ft)

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

## Maximum component chart

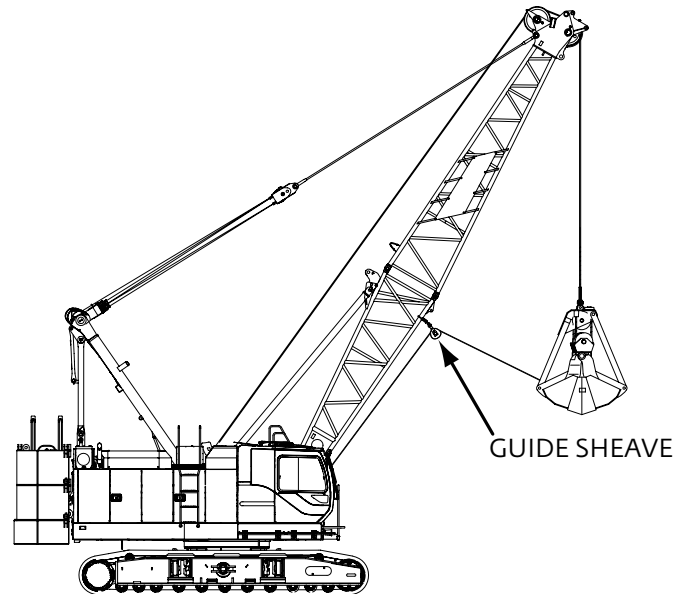
| Boom length m (ft) | Boom arrangement         |
|--------------------|--------------------------|
| 12,2 (40)          | Base-Tip                 |
| 15,2 (50)          | Base-A-Tip               |
| 18,3 (60)          | Base-A-A-Tip, Base-B-Tip |
| 21,3 (70)          | Base-A-B-Tip             |

Base = 6,10 m (20 ft)

Insert: A = 3,1 m (10 ft)

B = 6,1 m (20 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 21,3 m (70 ft).

## Clamshell Capacities

17,7 t (19.5 USt) counterweight  
(three upper counterweights, crawlers extended)

kg (lb) x 1 000

| Boom m (ft) | 12,2 (40)   | 15,2 (50)   | 18,3 (60)   | 21,3 (70)   |
|-------------|-------------|-------------|-------------|-------------|
| Radius      |             |             |             |             |
| 6,7 (22)    | 7,2* (16.0) |             |             |             |
| 7,9 (26)    | 7,2* (16.0) | 7,2* (16.0) |             |             |
| 9,1 (30)    | 7,2* (16.0) | 7,2* (16.0) | 7,2* (16.0) |             |
| 10,9 (36)   | 7,2* (16.0) | 7,2* (16.0) | 7,2* (16.0) | 7,2* (16.0) |
| 12,2 (40)   | 7,2* (16.0) | 7,2* (16.0) | 7,2* (16.0) | 7,2* (16.0) |
| 14,0 (46)   |             | 6,9* (16.0) | 7,0* (16.0) | 7,0* (15.6) |
| 15,2 (50)   |             |             | 6,1* (14.5) | 6,1* (14.3) |
| 17,1 (56)   |             |             | 5,1 (12.3)  | 5,1* (12.3) |
| 18,7 (60)   |             |             |             | 5,1* (11.2) |
| 20,1 (66)   |             |             |             | 4,4* (9.7)  |

# 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.

That's commitment you won't find anywhere else.

That's Crane Care.

## Service training

Manitowoc specialists work with you in our training centers and in the field to make sure you know how to get maximum performance, reliability and life from your cranes.

Manitowoc Cranes Technical Training Centers provide valuable multi-level training, which is available for all models and attachments, in the following format:

- **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**

Refer to [www.manitowoc.com](http://www.manitowoc.com) for course descriptions.

## Parts availability

Genuine Manitowoc replacement parts are accessible through your distributor 24 hours a day, 7 days a week, 365 days a year.

### Service interval kits

**200 hour kit**

**1,000 hour kit**

**2,000 hour kit**

**Hydraulic test kit**

**U.S. standard tools kit**

## Field service

Factory-trained service experts are always ready to help maintain your crane's peak performance.

For a worldwide listing of dealer locations, please consult our website at: [www.manitowoc.com](http://www.manitowoc.com)

## Technical support

Manitowoc's dealer network and factory personnel are available 24 hours a day, 7 days a week, 365 days a year to answer your technical questions and more, with the help of computerized programs that simplify crane selection, lift planning, and ground-bearing calculations.

For a worldwide listing of dealer locations, please consult our website at: [www.manitowoc.com](http://www.manitowoc.com)

## Technical documentation

Manitowoc has the industry's most extensive documentation; available in major languages and formats that include print, videotape, and DVD/CD.

Additional copies available through your Authorized Manitowoc Distributor.

- 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.



## Manitowoc Cranes

### Regional headquarters

#### Americas

**Manitowoc, Wisconsin, USA**

Tel: +1 920 684 6621

Fax: +1 920 683 6277

**Shady Grove, Pennsylvania, USA**

Tel: +1 717 597 8121

Fax: +1 717 597 4062

#### Europe, Middle East, Africa

**Ecully, France**

Tel: +33 (0)4 72 18 20 20

Fax: +33 (0)4 72 18 20 00

#### China

**Shanghai, China**

Tel: +86 21 6457 0066

Fax: +86 21 6457 4955

#### Greater Asia-Pacific

**Singapore**

Tel: +65 6264 1188

Fax: +65 6862 4040

### Regional offices

#### Americas

**Brazil**

Alphaville

**Mexico**

Monterrey

**Chile**

Santiago

#### Europe, Middle East,

**Africa**

**France**

Baudemont

Cergy

Decines

**Germany**

Langenfeld

**Italy**

Lainate

**Netherlands**

Breda

**Poland**

Warsaw

**Portugal**

Baltar

**Russia**

Moscow

**South Africa**

Johannesburg

**U.A.E.**

Dubai

**U.K.**

Buckingham

#### China

Beijing

Chengdu

Guangzhou

Xian

#### Greater Asia-Pacific

**Australia**

Brisbane

Melbourne

Sydney

**India**

Chennai

Delhi

Hyderabad

Pune

**Korea**

Seoul

**Philippines**

Makati City

**Singapore**

### Factories

**Brazil**

Passo Fundo

**China**

TaiAn

Zhangjiagang

**France**

Charlieu

Moulins

**Germany**

Wilhelmshaven

**India**

Pune

**Italy**

Niella Tanaro

**Portugal**

Baltar

Fânzeres

**Slovakia**

Saris

**USA**

Manitowoc

Port Washington

Shady Grove

This document is non-contractual. Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.