



# model 555



## product guide

### features

- 136 mton (150 ton) Capacity
- 539 mton-m (3,900 ft-kips) Maximum Load Moment
- 76,2 m (250') Heavy-Lift Boom
- 85,3 m (280') Fixed Jib on Heavy-Lift Boom
- 100,6 m (330') Luffing Jib
- 118,9 m (390') Fixed Jib on Luffing Jib
- 253 kW (340 HP) engine
- EPIC® controls with Can-Bus® technology
- 130 m/min (425 fpm) line speed standard
- 147 kN (33,000 lb) line pull standard
- 11,300 kg (25,000 lb) Clamshell capacity
- Fast, efficient self-assembly and disassembly – ships on only 8 trucks
- All modules meet US weight and European width requirements
- Manitowoc Crane CARE comprehensive support

### contents

|                                                 |    |
|-------------------------------------------------|----|
| Specifications                                  | 3  |
| Outline Dimensions                              | 6  |
| Transport Data                                  | 12 |
| Performance Data                                | 14 |
| Boom Combinations                               | 20 |
| Main Boom<br>Range / Load Charts                | 23 |
| Fixed Jib<br>Range / Load Charts                | 27 |
| Luffing Jib<br>Range / Load Charts              | 30 |
| Fixed Jib on Luffing Jib<br>Range / Load Charts | 34 |
| Crane CARE                                      | 38 |



|                                                                 | Specifications | Outline Dimensions<br>and Weights | Wire Rope Lengths | Wire Rope Specifications | Boom Raising | Boom Combinations | Range Diagram<br>and Capacity Charts |
|-----------------------------------------------------------------|----------------|-----------------------------------|-------------------|--------------------------|--------------|-------------------|--------------------------------------|
| <b>No. 555 Basic Crane</b>                                      | 3-5            | 6-7                               |                   |                          |              |                   |                                      |
| Engine(s)                                                       | 3              |                                   |                   |                          |              |                   |                                      |
| Controls                                                        | 3              |                                   |                   |                          |              |                   |                                      |
| Hydraulic System                                                | 3              |                                   |                   |                          |              |                   |                                      |
| Drums & Laggings                                                | 3, 19          |                                   |                   |                          |              |                   |                                      |
| Boom Hoist                                                      | 3              |                                   |                   |                          |              |                   |                                      |
| Swing System                                                    | 4              |                                   |                   |                          |              |                   |                                      |
| Boom Support System                                             | 4              |                                   |                   |                          |              |                   |                                      |
| Counterweights                                                  | 4              | 7                                 |                   |                          |              |                   |                                      |
| Operator's Cab                                                  | 4              | 6                                 |                   |                          |              |                   |                                      |
| Carbody, Upperworks                                             | 4              | 7                                 |                   |                          |              |                   |                                      |
| Crawlers                                                        | 4              | 7                                 |                   |                          |              |                   |                                      |
| <b>Optional</b>                                                 |                |                                   |                   |                          |              |                   |                                      |
| Self-erect System                                               | 4              |                                   |                   |                          |              |                   |                                      |
| Hook block/weight ball                                          | 5              | 11                                |                   |                          |              |                   |                                      |
| Miscellaneous Optional Equipment                                | 5              |                                   |                   |                          |              |                   |                                      |
| Boom Points                                                     | 5              | 9                                 |                   |                          |              |                   |                                      |
| Working Weights                                                 | 18             |                                   |                   |                          |              |                   |                                      |
| Transport/Assembly                                              | 12             | 13                                |                   |                          |              |                   |                                      |
| Manitowoc Crane CARE                                            |                |                                   |                   |                          |              |                   |                                      |
| <b>No. 84 Boom</b>                                              |                |                                   |                   |                          |              |                   |                                      |
| <b>No. 84 Boom with Heavy-Lift Top or OTT</b>                   | 4-5            | 8                                 | 14                | 17                       | 16           | 20-21             | 23-26                                |
| No. 84 Boom with Heavy-Lift Top with <b>No. 134 Fixed Jib</b>   | 5              | 9                                 | 14                | 17                       | 16           | 20-21             | 27-29                                |
| No. 84 Boom with Heavy-Lift Top with <b>No. 555 Luffing Jib</b> | 5              | 10                                | 15                | 18                       | —            | 22                | 30-33                                |
| No. 84 Boom with Heavy-Lift Top with <b>No. 555 Fixed Jib</b>   | 5              | 11                                | 16                | 18                       | —            | 22                | 34-37                                |
| on No. 555 Luffing Jib                                          |                |                                   |                   |                          |              |                   |                                      |
| <b>Manitowoc Crane CARE</b>                                     | 38-39          |                                   |                   |                          |              |                   |                                      |

## Upperworks



### Engine

Cummins Model QSL T3 diesel, 6 cylinder, 253 kW (340 BHP) @ 1800 governed RPM.

Includes engine block heater, disconnect clutch for cold weather starting, high silencing muffler, hydraulic oil cooler, radiator and fan.

Multiple hydraulic pump drive transmission provides power for all machine functions.

Two 12 volt maintenance-free batteries, 1155 CCA at -18°C (0° F), 24 volt system and 100 amp alternator.

One diesel fuel tank, 586 l (155 gal.), with level indicator in operator's cab.

Optional: Cold-weather package with heater for fluids, and computer display.



### Controls

Modulating electronic-over-hydraulic controls provide infinite speed response directly proportional to control lever movement. Controls include Manitowoc's exclusive EPIC® *Electronically Processed Independent Control* system with CAN-BUS technology providing microprocessor driven control logic, pump control, on-board diagnostics, and service information.

Travel and swing alarms are standard.

Block-up limit control is standard for hoist and whip lines.

Integrated Load Moment Indicator system (LMI) is standard for main boom and upper boom point. "Function cut-out" or "warning only" operation is selected via a keyed switch on the LMI console.

Optional: Anemometer (wind indicator).

Optional: Foot control for travel.



### Hydraulic System

Six high-pressure piston pumps, driven by a multi-pump transmission, provide independent closed-loop hydraulic power for the hoisting drums, boom hoist, swing, left crawler and right crawler.

Hydraulic reservoir capacity is 469 l (124 gal.) and is equipped with breather, clean out access, and internal diffuser.

Each function is equipped with relief valves to protect the hydraulic circuit from overload or shock.

System includes oil cooler and replaceable, full flow filter. All oil is filtered before entering the hydraulic pumps.

Hydraulic system also includes pump transmission disconnect and hydraulic oil cooler.



### Drums

Two equal width drums, 676 mm (26-5/8") wide and 539 mm (21-1/4") diameter are driven by independent variable displacement axial piston hydraulic motors through planetary reduction mounted on separate front and rear shafts with anti-friction bearings. Drums are grooved for 28 mm wire rope.

Powered hoisting/lowering operation is standard with automatic (spring applied, hydraulically released) multi-disc brakes, and drum rotation indicators..

Optional: free-fall operation for front and/or rear drum(s). Wet disc brake manually applies by foot pedal with locking latch in operator's cab. Operator may select free-fall or powered lowering mode using a selector switch.

Optional: auxiliary (third) hydraulic powered drum rated 147 kN (33,000 lb) line pull mounted in boom butt. Includes third drum control system.

Optional: auxiliary (third) hydraulic powered drum rated 89 kN (20,000 lb) line pull mounted in boom butt. Includes third drum control system.

Optional: auxiliary drum preparation includes electric wiring, controls, hydraulic pump and plumbing.



### Boom Hoist

Independent boom hoist consists of a 251 mm (9.9") wide and 483 mm (19") diameter drum lagged for 22 mm diameter wire rope. Includes 221 m (725') of 22mm wire rope for 16-part line reeving.

Drum is powered by a variable-displacement hydraulic motor coupled to an integral brake and planetary reduction gearbox. Ratcheting pawl and rotation indicator are standard.

Boom hoist speed: raise 76,2 m (250') full main boom from 0°- 82° in 1 minute, 55 seconds.

3

model 555



# specifications

## Swing System

- 4** High strength fabricated steel rotating bed is mounted on 2 146 mm (7'-1/2") diameter single-row ball bearing turntable.

Independent swing powered by one fixed displacement hydraulic motor coupled to a planetary reduction gearbox with internal brake.

Swing system maximum speed: 2.8 rpm.

## Boom Support System

Moving Mast is 6,7 m (22') long and connects the boom hoist reeving to the steel boom suspension strap rigging. When used with the optional self-erect package, the mast is used for crane assembly and disassembly. It is capable of lifting and positioning the crawler assemblies, stacking the counterweights, and assembling the boom and jib.

Spring cushioned boom stop and automatic boom stop are standard.

## Counterweight

Counterweight tray and counterweights for the upperworks is raised by a pair of cylinders and lifting chain. Counterweight attaches to the rotating bed with power actuated pins.

| QTY.                                                                                                                             | ITEM              | UNIT WEIGHT |        | TOTAL WEIGHT  |                |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|--------|---------------|----------------|
|                                                                                                                                  |                   | kg          | lb     | kg            | lb             |
| 1                                                                                                                                | <b>Upperworks</b> |             |        |               |                |
|                                                                                                                                  | Tray              | 7 801       | 17,200 | 7 801         | 17,200         |
| 4                                                                                                                                | Upper Box         | 6 123       | 13,500 | 24 492        | 54,000         |
|                                                                                                                                  | Pins, links, etc. | 137         | 372    | 137           | 300            |
| <b>SERIES 1 TOTAL</b>                                                                                                            |                   |             |        | <b>32 430</b> | <b>71,500</b>  |
| 2                                                                                                                                | <b>Upperworks</b> |             |        |               |                |
|                                                                                                                                  | Upper Box         | 6 123       | 13,500 | 12 250        | 27,000         |
|                                                                                                                                  | <b>Carbody</b>    |             |        |               |                |
| 2                                                                                                                                | Lower Box         | 9 980       | 22,000 | 19 960        | 44,000         |
|  Optional: Add to SERIES 1 for SERIES 2 TOTAL |                   |             |        | <b>65 640</b> | <b>142,500</b> |

## Vision Operator's Cab

Fully enclosed and insulated steel module mounted at left front corner of rotating bed on a pivoting frame that permits cab to be repositioned for transportation. Module is equipped with sliding door, large safety glass windows on all sides and roof. Signal horn, cab space heater, front and roof windshield wipers, dome light, sun visor and shade, fire extinguisher, air conditioning, and radio are standard.

 Optional: Nylon protective window covers.

 Optional: 10,7 m (35') elevated cab, 1 320 mm (52") wide, with catwalks and railing.

## Lowerworks

## Carbody

Connects rotating bed to crawler assemblies. High strength fabricated steel assembly with FACT connection system for fast installation and removal of crawler assemblies.

## Crawlers

Crawler assemblies are 7,24 m (23' 9") long with 1,22 m (48") wide cast steel crawler pads and sealed intermediate rollers. Each crawler is identical and can be mounted on either side of the carbody. Each crawler is powered independently by a variable displacement hydraulic motor and includes a hydraulically powered pin actuator for fast installation and removal from carbody. Carbody mounted drive motors are connected to crawler final reduction via drive shaft with guard. Crawlers provide ample tractive effort for counter rotation with full rated load.

Maximum ground speed of 1,8 kph (1.1 mph).

 Optional: Self-erect system includes two sheaves for crawler, counterweight, and boom handling, jacking cylinders with pads, 27-mton (30-ton) assembly block, and crawler handling chains.

## Attachments

## No. 84 Heavy-Lift Boom

The liftcrane is equipped with 15,2 m (50') of No. 84 basic heavy-lift angle chord boom consisting of a 6,7 m (22') butt and 8,5 m (28") top with four 76,2 cm (30") diameter roller bearing sheaves on one shaft. Includes LMI hardware, rope guides, boom hoist wire rope, boom angle indicator, and 13,6 mton (15 ton) swivel hook and weight ball. The No. 84 boom utilizes steel suspension straps and Manitowoc's patented, exclusive FACT connection system.

Powered boom hinge system including cylinder, piping, operating controls, and locking device standard.

Luffing jib preparation included as standard.

Optional 3,0 m (10'), 6,1 m (20'), and 12,2 m (40') No. 84 boom inserts with steel boom suspension straps and FACT connection system.

Utilize main boom inserts in combination with No. 84 basic main boom for total length up to 76,2 m (250').

Optional No. 84 detachable upper boom point with one 76,2 cm (30") diameter tapered roller bearing steel sheave grooved for 28 mm rope with rope guard for liftcrane.



## No. 134 Fixed Jib

Optional No. 134 basic fixed jib 9,1 m (30') length consisting of 4,6 m (15') jib butt and 4,6 m (15') jib top with 3,7 m (12') jib strut, pendants, and backstay. Includes LMI hardware. For use with No. 84 boom.

Optional No. 134 fixed jib inserts 3,0 m (10') and 6,1 m (20') with pendants.

Utilize fixed jib inserts in combination with the No. 134 basic fixed jib for total lengths of to 24,4 m (80').

Note: Jib lengths greater than 18,3 m (60') require the use of at least one 6,1 m (20') No. 134 fixed jib insert.



## No. 155 Luffing Jib

Optional 18,3 m (60') basic No. 155 luffing jib assembly with LMI hardware consisting of 8,2 m (27') jib butt, 3,0 m (10') insert, and 7,0 m (23') jib top with two 68,6 cm (27") straight roller bearing sheaves, boom cap with 5,6 m (18.5') fixed strut and 5,6 m (18.5') jib strut, pin connected boom sections, pendant rigging, backstay pendants, jib point wheel, and 28 mm luffing jib hoist line.

Optional 3,0 m (10'), 6,1 m (20'), and 12,2 m (40') No. 155 luffing jib inserts with pendant suspension.

Optional 12,2 m (40') insert with intermediate fall and pendant suspension.

Utilize luffing jib inserts in combination with the No. 155 basic luffing jib for total lengths up to 48,8 m (160').



## No. 138A Fixed Jib Extension

Optional 9,1 m (30') No. 138A basic fixed jib extension consisting of a 4,6 m (15') jib butt and 4,6 m (15') jib top with 5,4 m (17') jib strut, pendants, jib stop, backstay, wheel, and mounting parts. Includes LMI hardware. For use with No. 155 luffing jib.

Optional No. 124 fixed jib 3,0 m (10') inserts with pendants.

Utilize fixed jib inserts in combination with the No. 138A basic fixed jib extension for a total length up to 18,3 m (60').

## Optional Equipment

Optional: Blocks and Hooks, each with roller-bearing sheaves for 28 mm wire rope, a roller-bearing swivel hook, a hook latch, and a swivel lock.

13,6 mton (15 ton) swivel hook and weight ball

27,2 mton (30 ton) hook block with single roller bearing sheave and roller bearing swivel hook with hook latch and swivel lock (assembly block)

90,7 mton (100 ton) hook block with three roller bearing sheaves and roller bearing swivel hook with hook latch and swivel lock

136 mton (150 ton) hook block with four roller bearing sheaves and roller bearing swivel hook with hook latch and swivel lock

Optional: Hydraulic Test Kit: required to properly analyze the performance of the EPIC® control system.

Optional: Service Interval Kits for the regularly scheduled maintenance of general crane operations.

Optional: Lighting Packages: consult dealer for available options.

Optional: Special Paint [color(s) other than Manitowoc standard red and black].

Optional: Custom vinyl decal(s) of customer name and/or logo from artwork supplied by customer.

Optional: Export Packaging: basic crane, boom and jib sections.

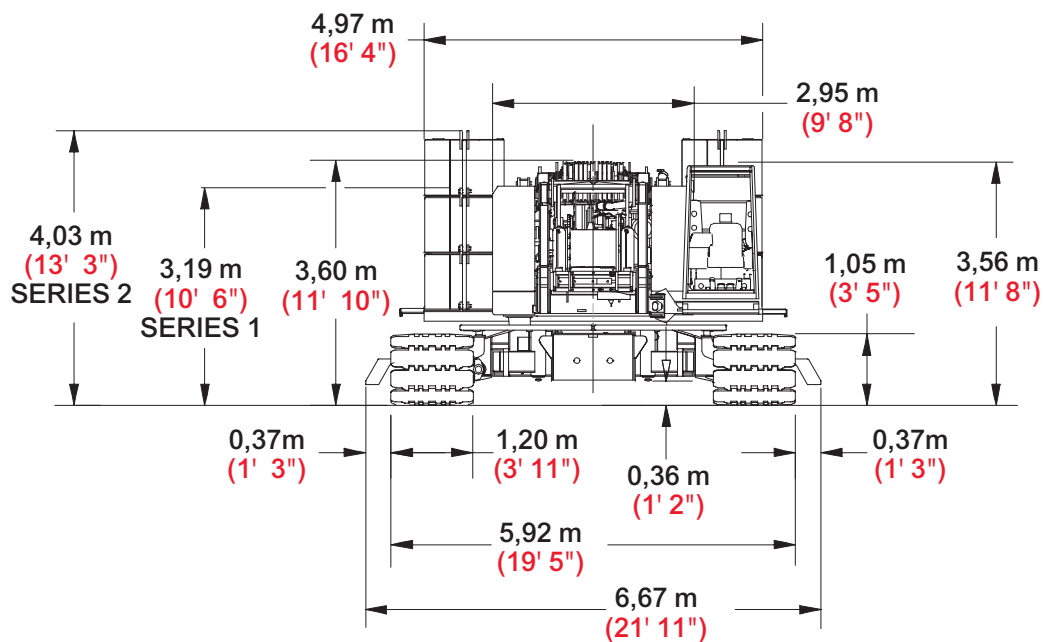
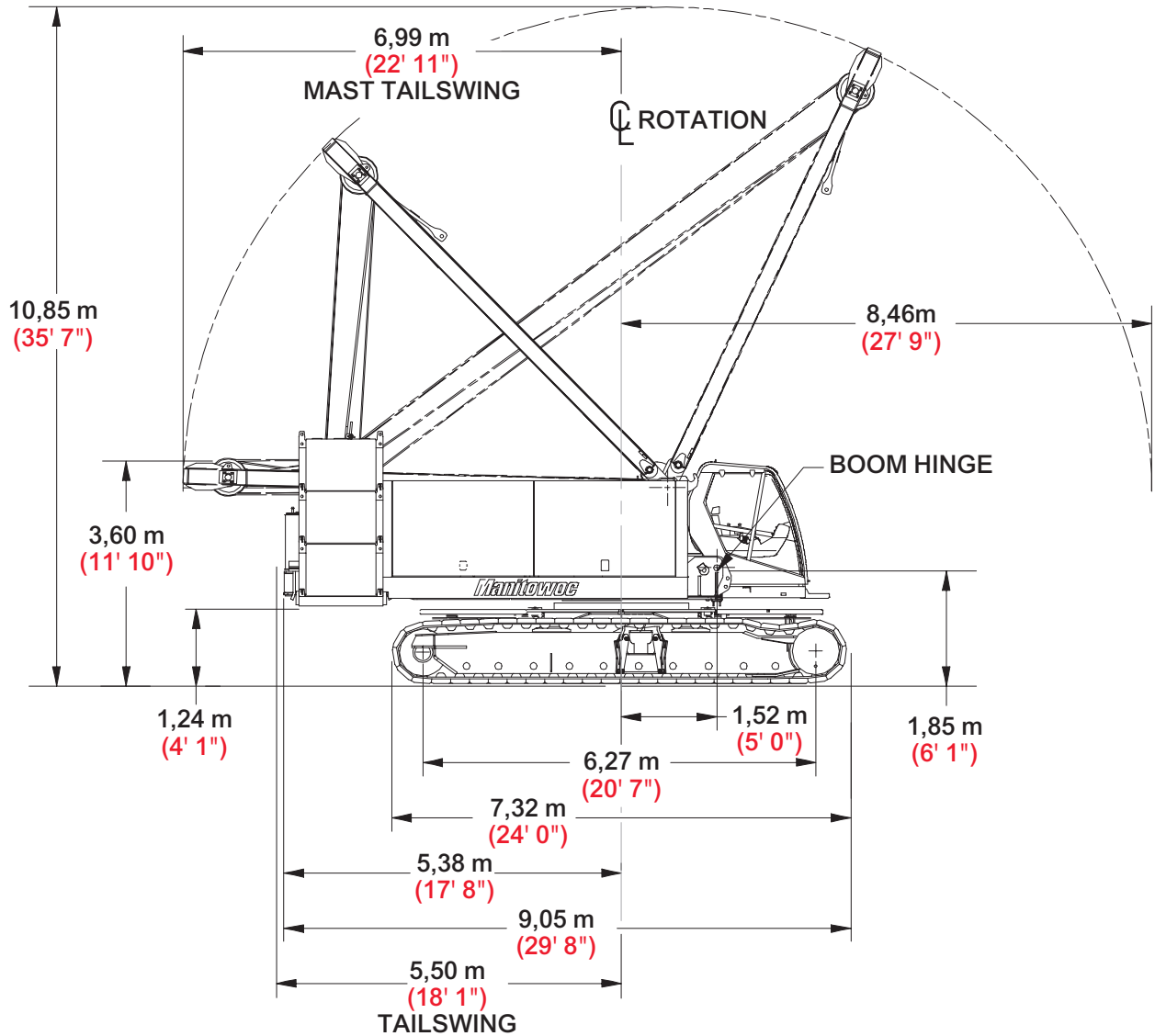
5

model 555



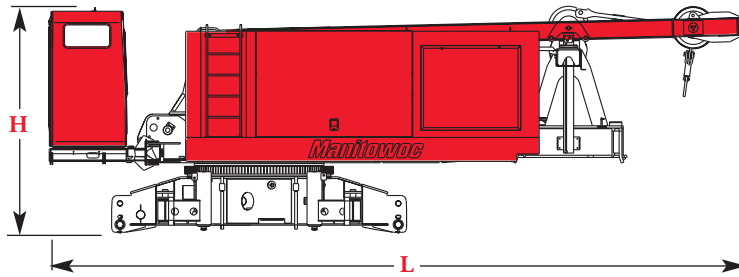
# outline dimensions

6



model 555  
Manitowoc

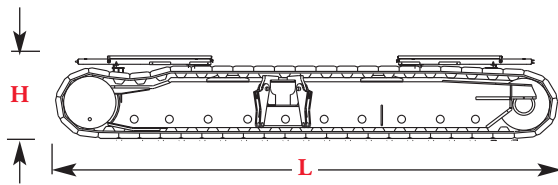
# outline dimensions



## Basic Crane

|        |           |           |
|--------|-----------|-----------|
| Length | 10,03 m   | 32' 11"   |
| Width  | 3,00 m    | 9' 10"    |
| Height | 3,328 m   | 10' 9"    |
| Weight | 37 665 kg | 83,140 lb |

Note: Weight includes carbody, upperworks, operator's cab, mast, boom-hoist wire rope, maximum hoist and whip lines on drums, front counterweight, optional self-assembly jacks, full hydraulic fluid reservoir, and half tank of fuel.

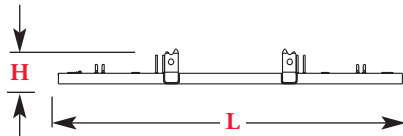


## Crawlers

x 2

|        |           |           |
|--------|-----------|-----------|
| Length | 7,32 m    | 24' 1"    |
| Width  | 2,29 m    | 7' 6"     |
| Height | 1,25 m    | 4' 1"     |
| Weight | 14 619 kg | 32,230 lb |

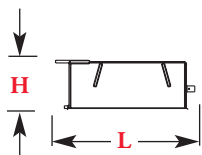
Note: Width is based on platform in stowed position. Crawler is 1,20 m (3' 11").



## Counterweight Tray

x 1

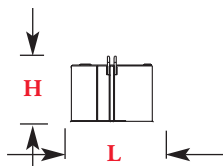
|        |          |           |
|--------|----------|-----------|
| Length | 4,98 m   | 16' 4"    |
| Width  | 1,45 m   | 4' 9"     |
| Height | 0,51 m   | 1' 8"     |
| Weight | 7 801 kg | 17,200 lb |



## Carbody Counterweight

x 1

|        |          |           |
|--------|----------|-----------|
| Length | 1,90 m   | 6' 3"     |
| Width  | 1,57 m   | 5' 2"     |
| Height | 0,72 m   | 2' 4"     |
| Weight | 9 979 kg | 22,000 lb |



## Upper Counterweight

Series 1

x 4

Series 2

x 6

|        |          |           |
|--------|----------|-----------|
| Length | 1,35 m   | 4' 5"     |
| Width  | 1,12 m   | 3' 8"     |
| Height | 0,97 m   | 3' 2"     |
| Weight | 6 123 kg | 13,500 lb |



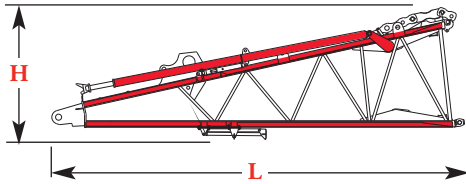
Option

model 555



# outline dimensions

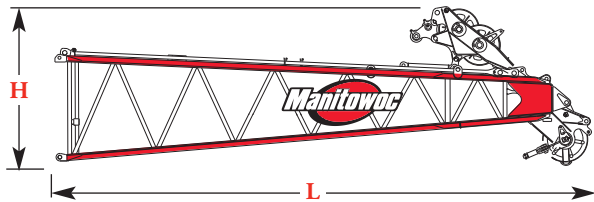
8



## No. 84 Boom Butt 6,7 m (22') & Wire Rope Guide, Boom Stop x 1

|        |          |          |
|--------|----------|----------|
| Length | 6,81 m   | 22' 4"   |
| Width  | 2,05 m   | 6' 9"    |
| Height | 2,01 m   | 6' 7"    |
| Weight | 2 680 kg | 5,935 lb |

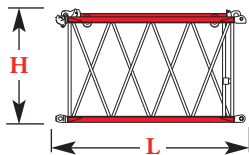
Note: Includes boom butt support for self-erect option and boom angle indicator.



## No. 84 Boom Top 8,5 m (28') & Wire Rope Guide, Straps x 1

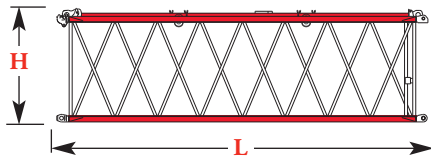
|        |          |          |
|--------|----------|----------|
| Length | 8,97 m   | 29' 6"   |
| Width  | 2,05 m   | 6' 9"    |
| Height | 2,64 m   | 8' 9"    |
| Weight | 3 686 kg | 8,130 lb |

Note: Wire rope guide shown in stowed position.



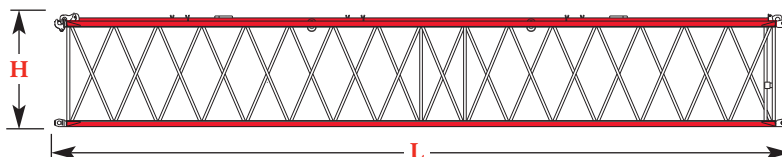
## No. 84 Main Boom 3,0 m (10') Insert & Straps x 1, 2

|        |        |          |
|--------|--------|----------|
| Length | 3,23 m | 10' 7"   |
| Width  | 2,08 m | 6' 10"   |
| Height | 1,91 m | 6' 3"    |
| Weight | 578 kg | 1,280 lb |



## No. 84 Main Boom 6,1 m (20') Insert & Straps x 1

|        |        |          |
|--------|--------|----------|
| Length | 6,27 m | 20' 7"   |
| Width  | 2,08 m | 6' 10"   |
| Height | 1,91 m | 6' 3"    |
| Weight | 941 kg | 2,080 lb |

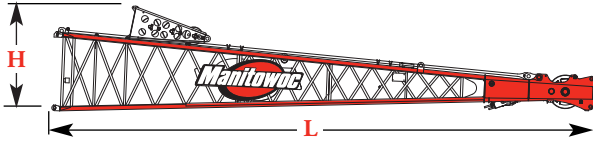


## No. 82 Main Boom 12,2 m (40') Insert & Straps x 1, 2, 3, 4

|        |          |          |
|--------|----------|----------|
| Length | 12,37 m  | 40' 7"   |
| Width  | 2,08 m   | 6' 10"   |
| Height | 1,91 m   | 6' 3"    |
| Weight | 1 560 kg | 3,665 lb |

Option

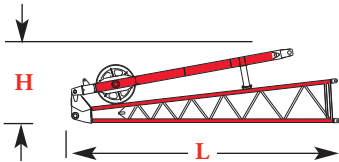
# outline dimensions



## No. 84 Boom Open Throat Top 11,6 m (38') & Wire Rope Guide, Straps x 1

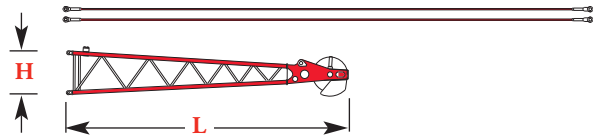
|        |          |          |
|--------|----------|----------|
| Length | 12,34 m  | 40' 6"   |
| Width  | 2,08 m   | 6' 10"   |
| Height | 2,39 m   | 7' 10"   |
| Weight | 3 347 kg | 7,378 lb |

Note: Wire rope guide shown in shipping position.



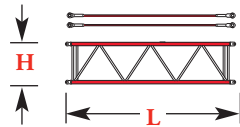
## No. 134 Jib Butt 4,6 m (15') & Strut, Stop x 1

|        |        |          |
|--------|--------|----------|
| Length | 4,67 m | 15' 4"   |
| Width  | 0,86 m | 2' 10"   |
| Height | 1,29 m | 4' 3"    |
| Weight | 635 kg | 1,400 lb |



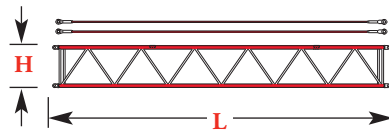
## No. 134 Jib Top 4,6 m (15') & Pendants x 1

|        |        |          |
|--------|--------|----------|
| Length | 4,93 m | 16' 2"   |
| Width  | 0,79 m | 2' 7"    |
| Height | 0,79 m | 2' 7"    |
| Weight | 553 kg | 1,220 lb |



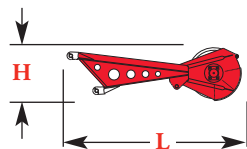
## No. 134 Jib Insert 3,0 m (10') & Pendants x 1

|        |        |        |
|--------|--------|--------|
| Length | 3,20 m | 10' 6" |
| Width  | 0,79 m | 2' 7"  |
| Height | 0,79 m | 2' 7"  |
| Weight | 218 kg | 480 lb |



## No. 134 Jib Insert 6,1 m (20') & Pendants x 1, 2

|        |        |        |
|--------|--------|--------|
| Length | 6,17 m | 20' 3" |
| Width  | 0,79 m | 2' 7"  |
| Height | 0,79 m | 2' 7"  |
| Weight | 340 kg | 750 lb |



## No. 84 Upper Boom Point x 1

|        |        |          |
|--------|--------|----------|
| Length | 2,64 m | 8' 8"    |
| Width  | 0,41 m | 1' 4"    |
| Height | 0,81 m | 2' 8"    |
| Weight | 514 kg | 1,135 lb |

Note: Includes mounting bracket

Option

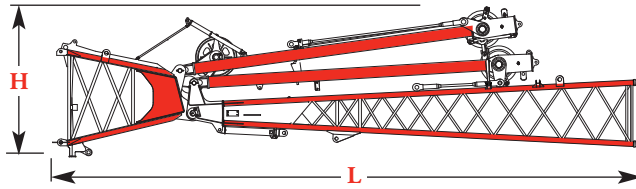
9

model 555



# outline dimensions

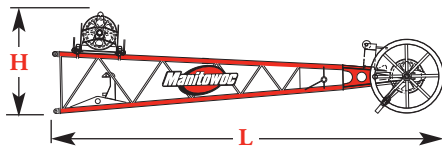
10



## No. 155 Luffing Jib 00,0m (00') Boom Cap, Butt, Struts, Guides, Straps, Pendants x 1

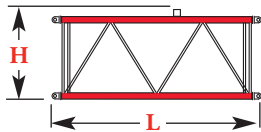
|        |          |           |
|--------|----------|-----------|
| Length | 10,80 m  | 35' 5"    |
| Width  | 2,08 m   | 6' 10"    |
| Height | 3,05 m   | 10' 0"    |
| Weight | 4 754 kg | 10,480 lb |

Note: Shown in shipping position.



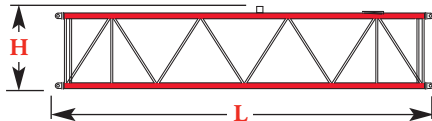
## No. 155 Jib Top 7,0 m (23') Guides & Pendants x 1

|        |          |          |
|--------|----------|----------|
| Length | 7,75 m   | 25' 5"   |
| Width  | 1,52 m   | 5' 0"    |
| Height | 2,15 m   | 7' 1"    |
| Weight | 1 803 kg | 3,975 lb |



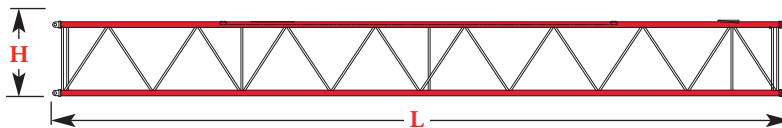
## No. 155 Jib Insert 3,0 m (10') Insert & Pendants x 1

|        |        |        |
|--------|--------|--------|
| Length | 3,15 m | 10' 4" |
| Width  | 1,52 m | 5' 0"  |
| Height | 1,37 m | 4' 6"  |
| Weight | 382 kg | 842 lb |



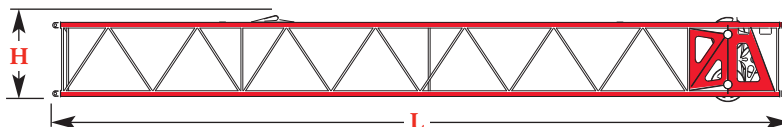
## No. 155 Jib Insert 6,1 m (20') Insert & Pendants x 1

|        |        |          |
|--------|--------|----------|
| Length | 6,20 m | 20' 4"   |
| Width  | 1,52 m | 5' 0"    |
| Height | 1,37 m | 4' 6"    |
| Weight | 612 kg | 1,349 lb |



## No. 155 Jib Insert 12,2 m (40') Insert & Pendants x 1, 2

|        |          |          |
|--------|----------|----------|
| Length | 12,29 m  | 40' 4"   |
| Width  | 1,52 m   | 5' 0"    |
| Height | 1,37 m   | 4' 6"    |
| Weight | 1 051 kg | 2,316 lb |

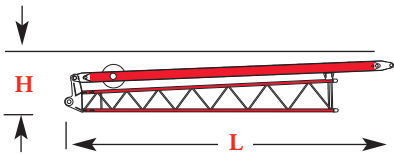


## No. 155 Jib Insert 12,2 m (40') Intermediate Fall, Insert & Pendants x 1

|        |          |          |
|--------|----------|----------|
| Length | 12,29 m  | 40' 4"   |
| Width  | 1,52 m   | 5' 0"    |
| Height | 1,42 m   | 4' 8"    |
| Weight | 1 641 kg | 3,617 lb |

Option

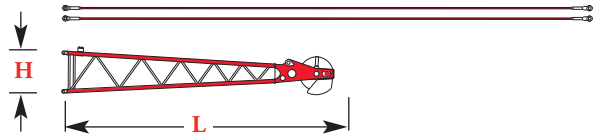
# outline dimensions



## No. 138A Jib Butt 4,6 m (15') & Strut, Stop x 1

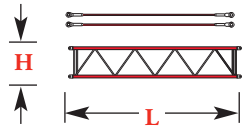
|        |        |        |
|--------|--------|--------|
| Length | 5,64 m | 18' 6" |
| Width  | 0,79 m | 2' 7"  |
| Height | 0,94 m | 3' 1"  |
| Weight | 392 kg | 871 lb |

11



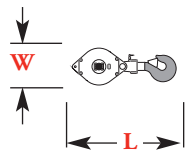
## Roller & Pendants x 1

|        |        |        |
|--------|--------|--------|
| Length | 5,69 m | 18' 8" |
| Width  | 0,76 m | 2' 6"  |
| Height | 0,71 m | 2' 4"  |
| Weight | 359 kg | 791 lb |



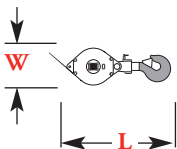
## No. 138A Jib Insert 3,0 m (10') & Pendants x 1, 2

|        |        |        |
|--------|--------|--------|
| Length | 3,12 m | 10' 3" |
| Width  | 0,76 m | 2' 6"  |
| Height | 0,58 m | 1' 11" |
| Weight | 98 kg  | 220 lb |



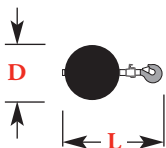
## Hook block for 28 mm or (1-1/4") wire rope

|          |          |          |        |        |        |
|----------|----------|----------|--------|--------|--------|
| Capacity | 136 mt   | 150 t    | Length | 2,03 m | 7' 6"  |
| Weight   | 1 814 kg | 4,000 lb | Width  | 0,86 m | 2' 10" |
| Capacity | 91 mt    | 100 t    | Length | 1,98 m | 6' 6"  |
| Weight   | 1 769 kg | 3,900 lb | Width  | 0,89 m | 2' 11" |
| Capacity | 41 mt    | 45 t     | Length | 1,83 m | 6' 0"  |
| Weight   | 1 179 kg | 2,600 lb | Width  | 0,91 m | 3' 0"  |



## Self Assembly Hook block for 28 mm or (1-1/4") wire rope

|          |        |          |        |        |        |
|----------|--------|----------|--------|--------|--------|
| Capacity | 27 mt  | 30 t     | Length | 1,17 m | 3' 10" |
| Weight   | 680 kg | 1,500 lb | Width  | 0,64 m | 2' 1"  |



## Weight Ball

|                 |         |          |          |        |        |
|-----------------|---------|----------|----------|--------|--------|
| Capacity/Swivel | 13,6 mt | 15 t     | Diameter | 0,56 m | 1' 10" |
| Weight          | 594 kg  | 1 310 lb | Length   | 1,07 m | 3' 6"  |

Option

model 555  
Manitowoc

## Trailer Load Out Summary

Model 555 Series 2  
No. 134 Fixed Jib 24,4 m (80') and  
No. 84 Boom 76,2 m (250')

| Item                                         | Weight<br>each Item<br>kg (lb) | Quantity on<br>Trailer Load # |                    |                    |                    |                    |                    |                    |                    |
|----------------------------------------------|--------------------------------|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
|                                              |                                | 1                             | 2*                 | 3*                 | 4**                | 5                  | 6                  | 7                  | 8                  |
| No. 555 Basic Crane<br>& Front Counterweight | 37 665<br>(83,140)             | 1                             |                    |                    |                    |                    |                    |                    |                    |
| Crawler Assembly                             | 14 619<br>(32,230)             |                               | 1                  | 1                  |                    |                    |                    |                    |                    |
| Counterweight Tray                           | 7 801<br>(17,200)              |                               |                    |                    | 1                  |                    |                    |                    |                    |
| Upper Counterweight                          | 6 123<br>(13,500)              |                               |                    |                    |                    | 2                  | 2                  | 1                  | 1                  |
| Lower Carbody<br>Counterweight               | 9 979<br>(22,000)              |                               |                    |                    |                    |                    |                    | 1                  | 1                  |
| 6,7 m (22')<br>No. 84 Boom Butt              | 2 597<br>(5,730)               |                               |                    |                    | 1                  |                    |                    |                    |                    |
| 8,5 m (28')<br>No. 84 Boom Top               | 3 686<br>(8,130)               |                               |                    |                    |                    | 1                  |                    |                    |                    |
| 3,0 m (10')<br>No. 84 Boom Insert            | 578<br>(1,280)                 |                               |                    |                    |                    | 1                  |                    |                    | 1                  |
| 6,1 m (20')<br>No. 84 Boom Insert            | 941<br>(2,080)                 |                               |                    |                    | 1                  |                    |                    |                    |                    |
| 12,2 m (40')<br>No. 84 Boom Insert***        | 1 560<br>(3,665)               |                               | 1                  | 1                  |                    |                    | 1                  | 1                  |                    |
| 10,0 m (30')<br>No. 134 Jib & Strut          | 1 188<br>(2,620)               |                               |                    |                    |                    |                    |                    |                    | 1                  |
| 3,0 m (10')<br>No. 134 Jib Insert            | 218<br>(480)                   |                               |                    |                    |                    |                    |                    |                    | 1                  |
| 6,1 m (20')<br>No. 134 Jib Insert            | 340<br>(750)                   |                               |                    |                    |                    |                    |                    |                    | 2                  |
| 136 mton (150 ton)<br>Hook Block             | 1 814<br>(4,000)               |                               |                    |                    |                    |                    | 1                  |                    |                    |
| 27 mton (30 ton)<br>Self-assembly Block      | 680<br>(1,500)                 |                               |                    |                    | 1                  |                    |                    |                    |                    |
| 13,6 mton (15 ton)<br>Weight Ball            | 594<br>(1,310)                 |                               |                    |                    |                    |                    |                    | 1                  |                    |
| No. 84<br>Upper Boom Point                   | 514<br>(1,135)                 |                               |                    |                    |                    |                    |                    | 1                  |                    |
| Approximate Total<br>Shipping Weight kg (lb) |                                | 37 665<br>(83,140)            | 16 179<br>(35,895) | 16 179<br>(35,895) | 12 019<br>(26,510) | 17 212<br>(36,410) | 15 620<br>(34,665) | 18 770<br>(41,610) | 18 426<br>(40,630) |

\* Drop deck trailer recommended.

\*\* Step deck trailer recommended.

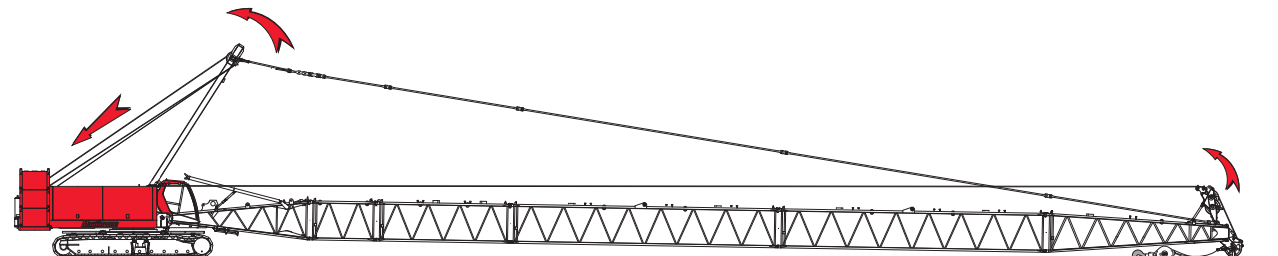
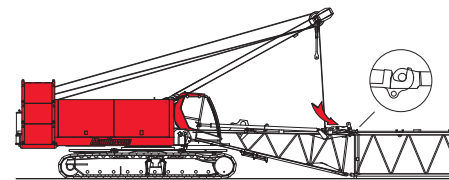
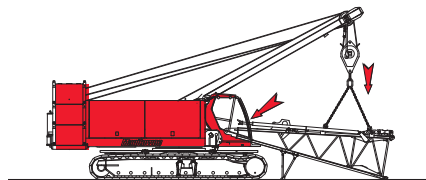
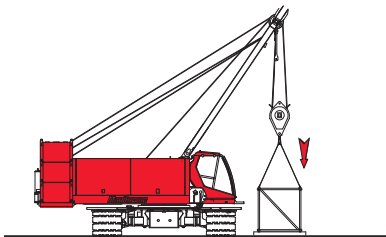
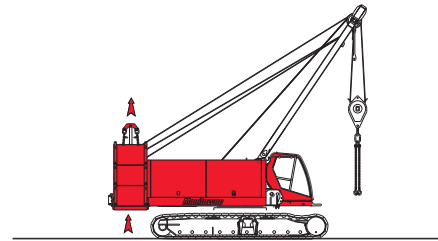
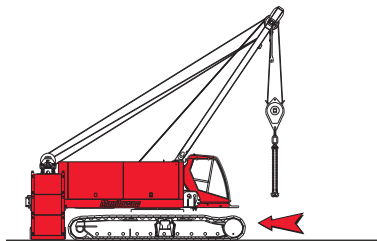
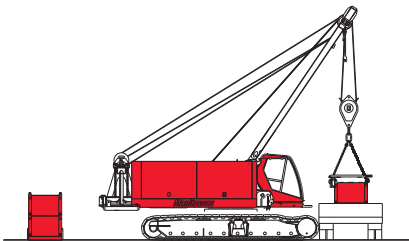
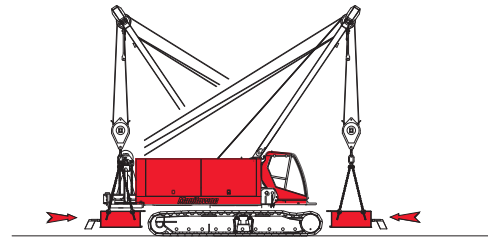
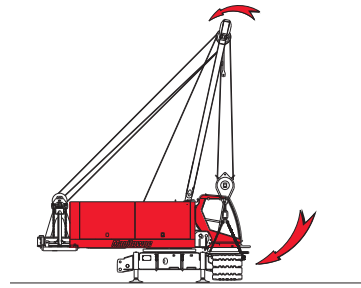
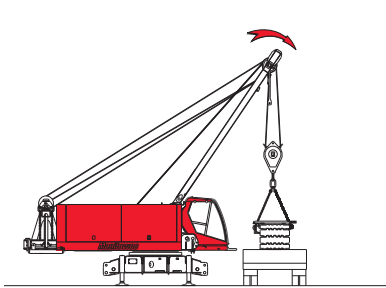
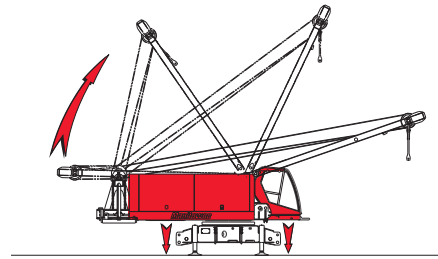
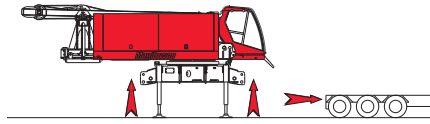
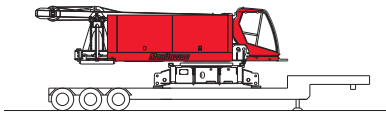
\*\*\* One insert includes jib backstay lugs.

Load weights do not include blocking, miscellaneous items.

Complies with all European 3,0 m width restrictions for shipping.

# assembly

13



model 555



# performance data

14

## Wire Rope Lengths

Boom No. 84

- or -

Fixed Jib No. 134 on

Boom No. 84

| Boom or<br>Boom and<br>Fixed Jib<br>Length | Whip Line                                   |       |                                              |       | Hoist line   |                                         |
|--------------------------------------------|---------------------------------------------|-------|----------------------------------------------|-------|--------------|-----------------------------------------|
|                                            | Front or Aux<br>Drum<br>(1 Part of<br>Line) |       | Front or Aux<br>Drum<br>(2 Parts of<br>Line) |       | Rear<br>Drum | Maximum<br>Required<br>Parts of<br>Line |
|                                            | m                                           | (ft)  | m                                            | (ft)  | m            | (ft)                                    |
| 15,2 (50)                                  | 43                                          | (140) | 64                                           | (210) | 177          | (580)                                   |
| 18,3 (60)                                  | 49                                          | (160) | 73                                           | (240) | 207          | (680)                                   |
| 21,3 (70)                                  | 55                                          | (180) | 82                                           | (270) | 238          | (780)                                   |
| 24,4 (80)                                  | 61                                          | (200) | 91                                           | (300) | 244          | (800)                                   |
| 27,4 (90)                                  | 67                                          | (220) | 101                                          | (330) | 268          | (880)                                   |
| 30,5 (100)                                 | 73                                          | (240) | 110                                          | (360) | 268          | (880)                                   |
| 33,5 (110)                                 | 79                                          | (260) | 119                                          | (390) | 287          | (940)                                   |
| 36,6 (120)                                 | 85                                          | (280) | 128                                          | (420) | 287          | (940)                                   |
| 39,6 (130)                                 | 91                                          | (300) | 137                                          | (450) | 293          | (960)                                   |
| 42,7 (140)                                 | 98                                          | (320) | 146                                          | (480) | 293          | (960)                                   |
| 45,7 (150)                                 | 104                                         | (340) | 152                                          | (500) | 293          | (960)                                   |
| 48,8 (160)                                 | 110                                         | (360) | 162                                          | (530) | 293          | (960)                                   |
| 51,8 (170)                                 | 116                                         | (380) | 171                                          | (560) | 293          | (960)                                   |
| 54,9 (180)                                 | 122                                         | (400) | 180                                          | (590) | 293          | (960)                                   |
| 57,9 (190)                                 | 128                                         | (420) | 189                                          | (620) | 293          | (960)                                   |
| 61,0 (200)                                 | 134                                         | (440) | 198                                          | (650) | 293          | (960)                                   |
| 64,0 (210)                                 | 140                                         | (460) | 207                                          | (680) | 293          | (960)                                   |
| 67,1 (220)                                 | 146                                         | (480) | 216                                          | (710) | 293          | (960)                                   |
| 70,1 (230)                                 | 152                                         | (500) | 226                                          | (740) | 293          | (960)                                   |
| 73,2 (240)                                 | 158                                         | (520) | 235                                          | (770) | 293          | (960)                                   |
| 76,2 (250)                                 | 165                                         | (540) | 244                                          | (800) | 293          | (960)                                   |
| 79,2 (260)                                 | 171                                         | (560) | 253                                          | (830) | 293          | (960)                                   |
| 82,3 (270)                                 | 177                                         | (580) | -                                            | -     | -            | -                                       |
| 85,3 (280)                                 | 183                                         | (600) | -                                            | -     | -            | -                                       |

NOTE: Line lengths given in table will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of line times added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Front and rear drums each provide 147 kN (33,000 lb) maximum single line pull.  
Auxiliary drum provides 89 kN (20,000 lb) maximum single line pull.

9 parts of line require upper boom point.

## Wire Rope Lengths Luffing Jib No. 155 on Boom No. 84

| Boom and<br>Luffing Jib<br>Length | Luffing Jib Hoist Line<br>Front Drum |       |                      |       |                      |       |
|-----------------------------------|--------------------------------------|-------|----------------------|-------|----------------------|-------|
|                                   | (3 Parts<br>of Line)                 |       | (2 Parts<br>of Line) |       | (1 Parts<br>of Line) |       |
|                                   | m                                    | (ft)  | m                    | (ft)  | m                    | (ft)  |
| 36,6 (120)                        | 168                                  | (550) | 130                  | (425) | 82                   | (270) |
| 39,6 (130)                        | 183                                  | (600) | 137                  | (450) | 88                   | (290) |
| 42,7 (140)                        | 191                                  | (625) | 145                  | (475) | 95                   | (310) |
| 45,7 (150)                        | 206                                  | (675) | 160                  | (525) | 101                  | (330) |
| 48,8 (160)                        | 213                                  | (700) | 168                  | (550) | 107                  | (350) |
| 51,8 (170)                        | 221                                  | (725) | 175                  | (575) | 113                  | (370) |
| 54,9 (180)                        | 236                                  | (775) | 183                  | (600) | 119                  | (390) |
| 57,9 (190)                        | 244                                  | (800) | 191                  | (625) | 125                  | (410) |
| 61,0 (200)                        | 259                                  | (850) | 198                  | (650) | 131                  | (430) |
| 64,0 (210)                        | 274                                  | (900) | 206                  | (675) | 137                  | (450) |
| 67,1 (220)                        | -                                    | -     | 213                  | (700) | 143                  | (470) |
| 70,1 (230)                        | -                                    | -     | 229                  | (750) | 149                  | (490) |
| 73,2 (240)                        | -                                    | -     | 236                  | (775) | 155                  | (510) |
| 76,2 (250)                        | -                                    | -     | 244                  | (800) | 162                  | (530) |
| 79,2 (260)                        | -                                    | -     | 251                  | (825) | 168                  | (550) |
| 82,3 (270)                        | -                                    | -     | 259                  | (850) | 174                  | (570) |
| 85,3 (280)                        | -                                    | -     | 267                  | (875) | 180                  | (590) |
| 88,4 (290)                        | -                                    | -     | 282                  | (925) | 186                  | (610) |
| 91,4 (300)                        | -                                    | -     | 290                  | (950) | 192                  | (630) |
| 94,5 (310)                        | -                                    | -     | -                    | -     | 198                  | (650) |
| 97,5 (320)                        | -                                    | -     | -                    | -     | 204                  | (670) |
| 100,6 (330)                       | -                                    | -     | -                    | -     | 210                  | (690) |

**Note:** Hoist line lengths given in table will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of line times added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

## Wire Rope Lengths Luffing Jib No. 155 on Boom No. 84

| Boom and<br>Luffing Jib<br>Length | Luffing Jib Hoist Line<br>Auxiliary Drum |        |                      |        |                     |       |
|-----------------------------------|------------------------------------------|--------|----------------------|--------|---------------------|-------|
|                                   | (3 Parts<br>of Line)                     |        | (2 Parts<br>of Line) |        | (1 Part<br>of Line) |       |
|                                   | m                                        | (ft)   | m                    | (ft)   | m                   | (ft)  |
| 36,6 (120)                        | 168                                      | (550)  | 130                  | (425)  |                     |       |
| 39,6 (130)                        | 183                                      | (600)  | 137                  | (450)  |                     |       |
| 42,7 (140)                        | 191                                      | (625)  | 145                  | (475)  |                     |       |
| 45,7 (150)                        | 206                                      | (675)  | 160                  | (525)  |                     |       |
| 48,8 (160)                        | 213                                      | (700)  | 168                  | (550)  |                     |       |
| 51,8 (170)                        | 221                                      | (725)  | 175                  | (575)  | 91                  | (300) |
| 54,9 (180)                        | 236                                      | (775)  | 183                  | (600)  | 98                  | (320) |
| 57,9 (190)                        | 244                                      | (800)  | 191                  | (625)  | 104                 | (340) |
| 61,0 (200)                        | 259                                      | (850)  | 198                  | (650)  | 110                 | (360) |
| 64,0 (210)                        | 274                                      | (900)  | 206                  | (675)  | 116                 | (380) |
| 67,1 (220)                        | 282                                      | (925)  | 213                  | (700)  | 122                 | (400) |
| 70,1 (230)                        | 297                                      | (975)  | 229                  | (750)  | 128                 | (420) |
| 73,2 (240)                        | 305                                      | (1000) | 236                  | (775)  | 134                 | (440) |
| 76,2 (250)                        | 320                                      | (1050) | 244                  | (800)  | 140                 | (460) |
| 79,2 (260)                        | 335                                      | (1100) | 251                  | (825)  | 146                 | (480) |
| 82,3 (270)                        | 343                                      | (1125) | 259                  | (850)  | 152                 | (500) |
| 85,3 (280)                        | 358                                      | (1175) | 267                  | (875)  | 158                 | (520) |
| 88,4 (290)                        | -                                        | -      | 282                  | (925)  | 158                 | (520) |
| 91,4 (300)                        | -                                        | -      | 290                  | (950)  | 158                 | (520) |
| 94,5 (310)                        | -                                        | -      | 297                  | (975)  | 158                 | (520) |
| 97,5 (320)                        | -                                        | -      | 305                  | (1000) | 158                 | (520) |
| 100,6 (330)                       | -                                        | -      | 312                  | (1025) | -                   | -     |

**Note:** Hoist line lengths given in table will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of line times added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

# performance data

16

## Wire Rope Lengths Fixed Jib No. 138A on Luffing Jib No. 155 on Boom No. 84

| Boom,<br>Luffing Jib<br>and Fixed Jib<br>Length | Fixed Jib Whip Line<br>Front Drum or Auxiliary Drum |        |
|-------------------------------------------------|-----------------------------------------------------|--------|
|                                                 | (1 Part of<br>Line)                                 |        |
|                                                 | m (ft)                                              | m (ft) |
| 88,4 (290)                                      | 186                                                 | (610)  |
| 91,4 (300)                                      | 192                                                 | (630)  |
| 94,5 (310)                                      | 198                                                 | (650)  |
| 97,5 (320)                                      | 204                                                 | (670)  |
| 100,6 (330)                                     | 210                                                 | (690)  |
| 103,6 (340)                                     | 216                                                 | (710)  |
| 106,7 (350)                                     | 223                                                 | (730)  |
| 109,7 (360)                                     | 229                                                 | (750)  |
| 112,8 (370)                                     | 235                                                 | (770)  |
| 115,8 (380)                                     | 241                                                 | (790)  |
| 118,9 (390)                                     | 247                                                 | (810)  |

**Note:** Line lengths are based on single part lead line. Hoist line and whip line lengths given in table will allow hook to touch ground. When block travel below ground is required, add additional rope equal to parts of line times added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Maximum load on 26 mm or (1") wire rope is 12 400 kg (27,500 lb) per line. When auxiliary drum is used maximum load is 9 070 kg (20,000 lb).

## Drum Capacities - Wire Rope

|                                                | Maximum Length             |
|------------------------------------------------|----------------------------|
| Front or Rear Grooved Drum<br>28 mm Wire Rope* | 293 m (962 ft)<br>6 Layers |
| Auxiliary Drum<br>28 mm Wire Rope*             | 293 m (962 ft)<br>6 Layers |
| Auxiliary Drum<br>(28 mm) Wire Rope*           | 293 m (962 ft)<br>6 Layers |
| Boom Hoist Drum<br>22 mm (7/8") Wire Rope      | 221 m (725 ft)<br>8 Layers |

\*5 m (18') is deducted from maximum spooling capacities for 3 dead wraps per drum or lagging.

## Maximum Length - Unassisted Raising

No. 84 Boom with Heavy-Lift Top - or -  
No. 134 Fixed Jib on  
No. 84 Boom with Heavy-Lift Top  
Series 2

|                                                    | Main<br>Boom  | Fixed<br>Jib |
|----------------------------------------------------|---------------|--------------|
| Over<br>end of<br>blocked<br>crawlers<br>m<br>(ft) | 76,2<br>(250) | -            |
|                                                    | 73,2<br>(240) | -            |
|                                                    | 70,1<br>(230) | -            |
|                                                    | 67,1<br>(220) | 12,2<br>(40) |
|                                                    | 64,0<br>(210) | 18,3<br>(60) |
|                                                    | 61,0<br>(200) | 24,4<br>(80) |

**NOTE:** Load block(s), hook(s) and weight ball(s) on ground at start. Upper boom point cannot be used when jib is attached. Upper boom point cannot be used on 76,2. m (250') boom.

## Maximum Length - Unassisted Raising

No. 138A Fixed Jib on No. 155 Luffing Jib  
on No. 84 Main Boom

| Method                                             | Jack-Knife Procedure |                            |                         |
|----------------------------------------------------|----------------------|----------------------------|-------------------------|
|                                                    | Main<br>Boom         | Luffing<br>Jib             | Fixed<br>Jib            |
| Over<br>end of<br>blocked<br>crawlers<br>m<br>(ft) | 36,6<br>(120)        | 42,7 - 48,8<br>(140 - 160) | 9,1 - 18,3<br>(30 - 60) |
|                                                    | 42,7<br>(140)        | 42,7 - 48,8<br>(140 - 160) | 9,1 - 18,3<br>(30 - 60) |
|                                                    | 48,8<br>(160)        | 42,7 - 48,8<br>(140 - 160) | 9,1 - 18,3<br>(30 - 60) |
|                                                    | 81,8<br>(170)        | 42,7 - 48,8<br>(140 - 160) | 9,1 - 18,3<br>(30 - 60) |

**NOTE:** Load block(s), hook(s) and weight ball(s) on ground at start.

## Wire Rope Specifications 5:1 Safety Factor

### Boom No. 84

- or -

### Fixed Jib No. 134 on Boom No. 84

|                           | <b>5:1 Safety Factor</b><br>Rotation Resistant, Right Hand Lang Lay<br>Wire rope with Pad Eye |                           |                           |
|---------------------------|-----------------------------------------------------------------------------------------------|---------------------------|---------------------------|
| Function                  | Hoist Line                                                                                    | Whip Line                 | Auxilliary Line           |
| Part Number               | No. A00840                                                                                    | No. A00840                | No. A00840                |
| Size Wire Rope            | 28 mm<br>-                                                                                    | 28 mm<br>-                | 28 mm<br>-                |
| Minimum Breaking Strength | 750,8 kN<br>(168,800 lb)                                                                      | 750,8 kN<br>(168,800 lb)  | 750,8 kN<br>(168,800 lb)  |
| Maximum Load Per Line     | 14 970 kg<br>(33,000 lb)                                                                      | 13 608 kg<br>(30,000 lb)  | 13 608 kg<br>(30,000 lb)  |
| Approximate Weight        | 3,91 kg/m<br>(2.63 lb/ft)                                                                     | 3,91 kg/m<br>(2.63 lb/ft) | 3,91 kg/m<br>(2.63 lb/ft) |

## Wire Rope Specifications 3.5:1 Safety Factor

### Boom No. 84

- or -

### Fixed Jib No. 134 on Boom No. 84

|                           | <b>3.5:1 Safety Factor</b><br>6 x 36 Extra Extra Improved Plow Steel,<br>Right Hand Regular Lay, IWRC<br>Wire rope with Pad Eye |                           |                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|
| Function                  | Hoist Line                                                                                                                      | Whip Line                 | Auxilliary Line           |
| Part Number               | No. A02479                                                                                                                      | No. A02479                | No. A02479                |
| Size Wire Rope            | 28 mm<br>-                                                                                                                      | 28 mm<br>-                | 28 mm<br>-                |
| Minimum Breaking Strength | 603,1 kN<br>(135,600 lb)                                                                                                        | 603,1 kN<br>(135,600 lb)  | 603,1 kN<br>(135,600 lb)  |
| Maximum Load Per Line     | 14 970 kg<br>(33,000 lb)                                                                                                        | 13 608 kg<br>(30,000 lb)  | 13 608 kg<br>(30,000 lb)  |
| Approximate Weight        | 3,33 kg/m<br>(2.24 lb/ft)                                                                                                       | 3,33 kg/m<br>(2.24 lb/ft) | 3,33 kg/m<br>(2.24 lb/ft) |

# performance data

18

## Wire Rope Specifications 5:1 Safety Factor

Boom No. 84

- or -

Luffing Jib No. 155 on Boom No. 84

|                           |                                                                                               |                           |                           |
|---------------------------|-----------------------------------------------------------------------------------------------|---------------------------|---------------------------|
| Function<br>Part Number   | <b>5:1 Safety Factor</b><br>Rotation Resistant, Right Hand Lang Lay<br>Wire rope with Pad Eye |                           |                           |
|                           | Hoist Line                                                                                    | Whip Line                 | Auxilliary Line           |
|                           | No. A00840                                                                                    | No. A00840                | No. A00840                |
| Size Wire Rope            | 28 mm                                                                                         | 28 mm                     | 28 mm                     |
| Minimum Breaking Strength | 750,8 kN<br>(168,800 lb)                                                                      | 750,8 kN<br>(168,800 lb)  | 750,8 kN<br>(168,800 lb)  |
| Maximum Load Per Line     | 14 970 kg<br>(33,000 lb)                                                                      | 13 608 kg<br>(30,000 lb)  | 13 608 kg<br>(30,000 lb)  |
| Approximate Weight        | 3,91 kg/m<br>(2.63 lb/ft)                                                                     | 3,91 kg/m<br>(2.63 lb/ft) | 3,91 kg/m<br>(2.63 lb/ft) |

## Wire Rope Specifications 3.5:1 Safety Factor

Boom No. 84

- or -

Luffing Jib No. 155 on Boom No. 84

|                           |                                                                                                                                 |                           |                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|
| Function<br>Part Number   | <b>3.5:1 Safety Factor</b><br>6 x 36 Extra Extra Improved Plow Steel,<br>Right Hand Regular Lay, IWRC<br>Wire rope with Pad Eye |                           |                           |
|                           | Hoist Line                                                                                                                      | Whip Line                 | Auxilliary Line           |
|                           | No. A02479                                                                                                                      | No. A02479                | No. A02479                |
| Size Wire Rope            | 28 mm                                                                                                                           | 28 mm                     | 28 mm                     |
| Minimum Breaking Strength | 603,1 kN<br>(135,600 lb)                                                                                                        | 603,1 kN<br>(135,600 lb)  | 603,1 kN<br>(135,600 lb)  |
| Maximum Load Per Line     | 14 970 kg<br>(33,000 lb)                                                                                                        | 13 608 kg<br>(30,000 lb)  | 13 608 kg<br>(30,000 lb)  |
| Approximate Weight        | 3,33 kg/m<br>(2.24 lb/ft)                                                                                                       | 3,33 kg/m<br>(2.24 lb/ft) | 3,33 kg/m<br>(2.24 lb/ft) |

## Working Weight

| Configuration                                                                       | kg (lb)              |                      |
|-------------------------------------------------------------------------------------|----------------------|----------------------|
|                                                                                     | Series 1             | Series 2             |
| 15,2 m (50')<br>No. 84 Boom                                                         | 107 961<br>(238,015) | 140 961<br>(309,015) |
| 64,0 m (200')<br>No. 84 Boom*<br>combined with<br>24,4 m (80')<br>No. 134 Fixed Jib | 115 891<br>(255,496) | 148 096<br>(326,496) |

Typical working weight includes optional self-assembly carbody jacks, hydraulic reservoir full, fuel half-full, drums with standard lengths of wire rope, upper boom point, 136 mt (150 t) hook block, and 13,6 mt (15 t) hook and weight ball.

Note: Upper boom point not used with fixed jib.

\*64,0 m (200') No. 82 boom maximum allowed.

## Main & Whip Drums - 147 kN (33,000 lb)

| Full Power Drum - Continuous Duty<br>Single Line Pull/Single Line Speed |                |             |              |              |              |              |
|-------------------------------------------------------------------------|----------------|-------------|--------------|--------------|--------------|--------------|
| Layer                                                                   | m/min (ft/min) |             |              |              |              |              |
|                                                                         | 1              | 2           | 3            | 4            | 5            | 6            |
| Line Pull<br>kg (lb)                                                    |                |             |              |              |              |              |
| 0<br>(0)                                                                | 87<br>(286)    | 96<br>(314) | 104<br>(342) | 113<br>(370) | 121<br>(398) | 130<br>(426) |
| 2 268<br>(5,000)                                                        | 84<br>(274)    | 91<br>(300) | 99<br>(326)  | 107<br>(351) | 115<br>(376) | 122<br>(401) |
| 4 536<br>(10,000)                                                       | 81<br>(263)    | 87<br>(286) | 94<br>(309)  | 102<br>(332) | 108<br>(354) | 115<br>(376) |
| 6 803<br>(15,000)                                                       | 77<br>(251)    | 83<br>(273) | 89<br>(293)  | 95<br>(313)  | 97<br>(318)  | 99<br>(323)  |
| 9 072<br>(20,000)                                                       | 72<br>(236)    | 74<br>(241) | 75<br>(247)  | 77<br>(252)  | 79<br>(258)  | 80<br>(263)  |
| 11 340<br>(25,000)                                                      | 61<br>(200)    | 63<br>(205) | 64<br>(211)  | 66<br>(216)  | 68<br>(222)  | 69<br>(227)  |
| 13 380<br>(33,000)                                                      | 51<br>(165)    | 52<br>(170) | 54<br>(176)  | 55<br>(181)  | 57<br>(186)  | 59<br>(192)  |

NOTE: Line pull is infinitely variable.

## Auxiliary Drum - 89,0 kN (20,000 lb)

| Full Power Drum - Continuous Duty<br>Single Line Pull/Single Line Speed |                |              |              |
|-------------------------------------------------------------------------|----------------|--------------|--------------|
| Layer                                                                   | m/min (ft/min) |              |              |
|                                                                         | 1              | 4            | 6            |
| Line Pull<br>kg (lb)                                                    |                |              |              |
| 0<br>(0)                                                                | 116<br>(380)   | 146<br>(480) | 168<br>(550) |
| 2 268<br>(5,000)                                                        | 110<br>(360)   | 137<br>(450) | 156<br>(510) |
| 4 536<br>(10,000)                                                       | 104<br>(340)   | 128<br>(420) | 143<br>(470) |
| 6 803<br>(15,000)                                                       | 95<br>(310)    | 98<br>(320)  | 98<br>(320)  |
| 9 072<br>(20,000)                                                       | 73<br>(240)    | 76<br>(250)  | 82<br>(270)  |

NOTE: Line pull is infinitely variable.

## Drums & Laggings - Liftcrane

|                         |             | Tandem Drums - 1 854 mm (73") Wide (Optional) |                  |           |               |            |                                |                          |
|-------------------------|-------------|-----------------------------------------------|------------------|-----------|---------------|------------|--------------------------------|--------------------------|
|                         | Application | Drum Location                                 | Drum Part Number | Drum Type | Drum Diameter | Drum Width | Drum or Lugging Groove Pitch * | Minimum Wire Rope Size** |
| Basic Liftcrane         | Hoist       | Rear                                          | A00485           | Grooved   | 540 mm        | 676 mm     | 29,39 mm                       | 28,55 mm                 |
|                         |             |                                               |                  |           | (21-1/4")     | (26-5/8")  | (1.157")                       | (1.124")                 |
|                         | Whip        | Front                                         | A00485           | Grooved   | 540 mm        | 676 mm     | 29,39 mm                       | 28,55 mm                 |
|                         |             |                                               |                  |           | (21-1/4")     | (26-5/8")  | (1.157")                       | (1.124")                 |
|                         | Auxiliary   | Boom Butt                                     | A00485           | Grooved   | 540 mm        | 676 mm     | 29,39 mm                       | 28,55 mm                 |
|                         |             |                                               |                  |           | (21-1/4")     | (26-5/8")  | (1.157")                       | (1.124")                 |
| Claimshell Limited Duty | Closing     | Front                                         | A00485           | Grooved   | 540 mm        | 676 mm     | 29,39 mm                       | 28,55 mm                 |
|                         |             |                                               |                  |           | (21-1/4")     | (26-5/8")  | (1.157")                       | (1.124")                 |
|                         | Holding     | Rear                                          | A00485           | Grooved   | 540 mm        | 676 mm     | 29,39 mm                       | 28,55 mm                 |
|                         |             |                                               |                  |           | (21-1/4")     | (26-5/8")  | (1.157")                       | (1.124")                 |

\* Maximum wire rope diameter and width a wound on drum must not exceed drum groove pitch.

\*\* Minimum recommended wire rope size for proper spooling.

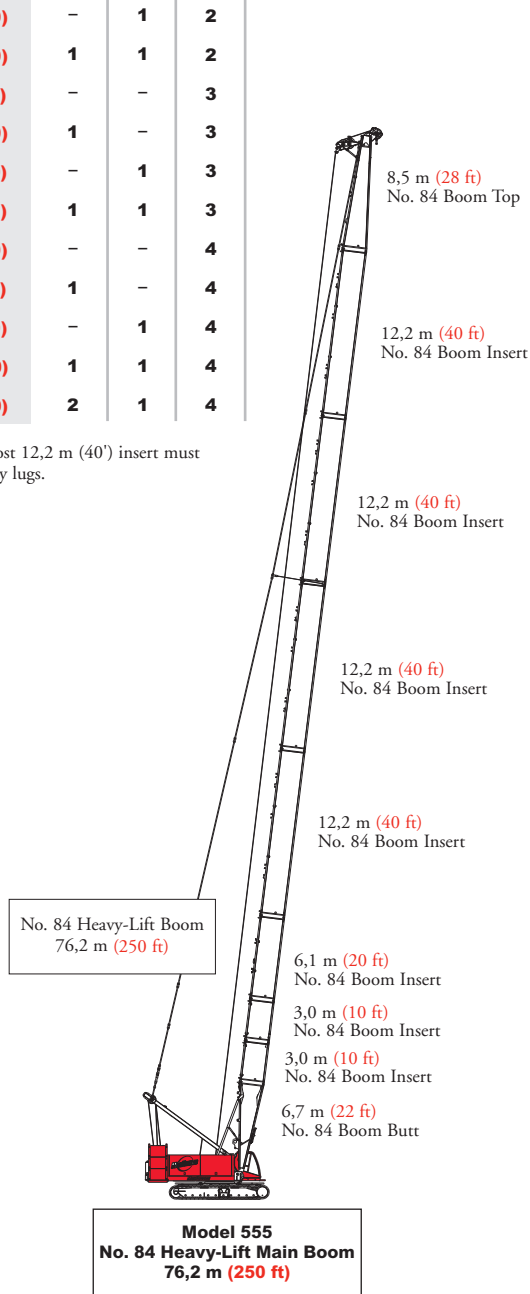
# boom combinations

20

## No. 84 Boom Combinations

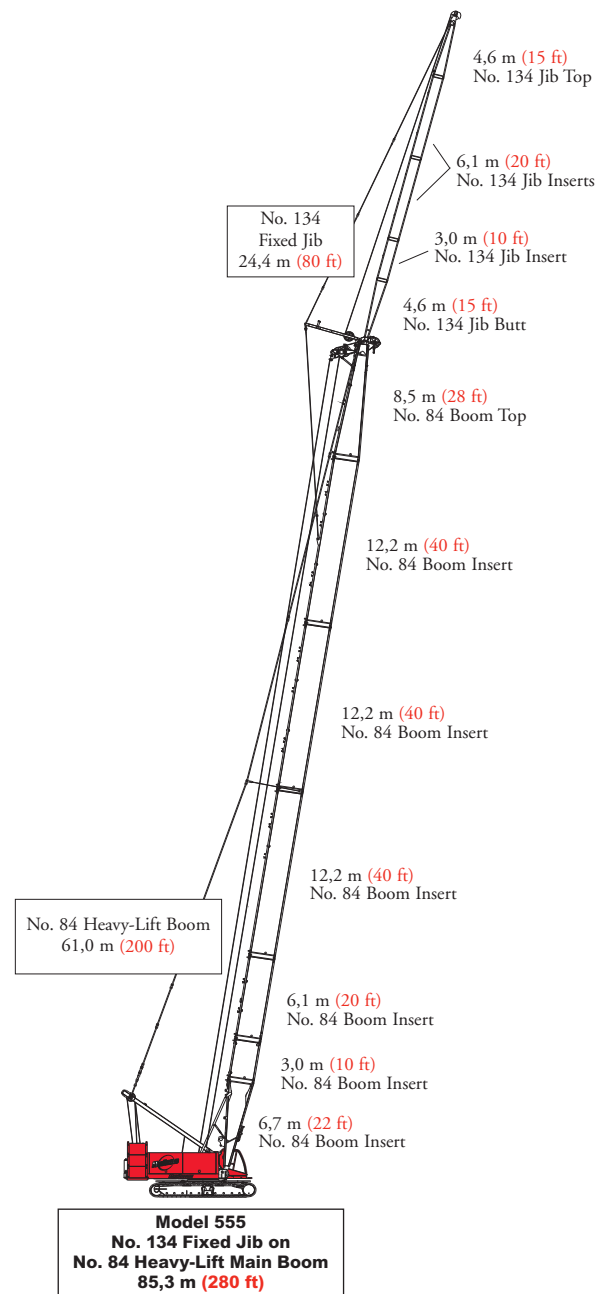
| Boom Length<br>m (ft) | Boom Inserts     |                  |                   |
|-----------------------|------------------|------------------|-------------------|
|                       | 3,0 m<br>(10 ft) | 6,1 m<br>(20 ft) | 12,2 m<br>(40 ft) |
| 15,2 (50)             | -                | -                | -                 |
| 18,3 (60)             | 1                | -                | -                 |
| 21,3 (70)             | -                | 1                | -                 |
| 24,4 (80)             | 1                | 1                | -                 |
| 27,4 (90)             | -                | -                | 1                 |
| 30,5 (100)            | 1                | -                | 1                 |
| 33,5 (110)            | -                | 1                | 1                 |
| 36,6 (120)            | 1                | 1                | 1                 |
| 39,6 (130)            | -                | -                | 2                 |
| 42,7 (140)            | 1                | -                | 2                 |
| 45,7 (150)            | -                | 1                | 2                 |
| 48,8 (160)            | 1                | 1                | 2                 |
| 51,8 (170)            | -                | -                | 3                 |
| 54,9 (180)            | 1                | -                | 3                 |
| 57,9 (190)            | -                | 1                | 3                 |
| 61,0 (200)            | 1                | 1                | 3                 |
| 64,0 (210)            | -                | -                | 4                 |
| 67,1 (220)            | 1                | -                | 4                 |
| 70,1 (230)            | -                | 1                | 4                 |
| 73,2 (240)            | 1                | 1                | 4                 |
| 76,2 (250)            | 2                | 1                | 4                 |

Note: Uppermost 12,2 m (40') insert must include backstay lugs.



## No. 134 Fixed Jib Combinations

| Jib Length<br>m (ft) | Fixed Jib Inserts |                  |
|----------------------|-------------------|------------------|
|                      | 3,0 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                |
| 21,3 (70)            | -                 | 2                |
| 24,4 (80)            | 1                 | 2                |



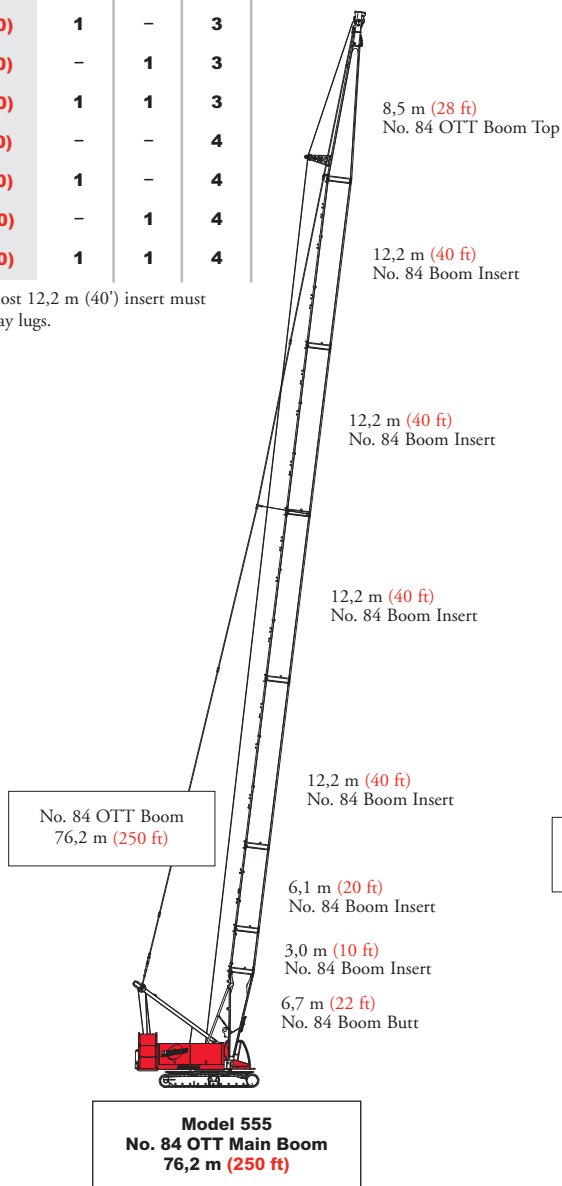
# boom combinations

21

## No. 84 OTT Boom Combinations

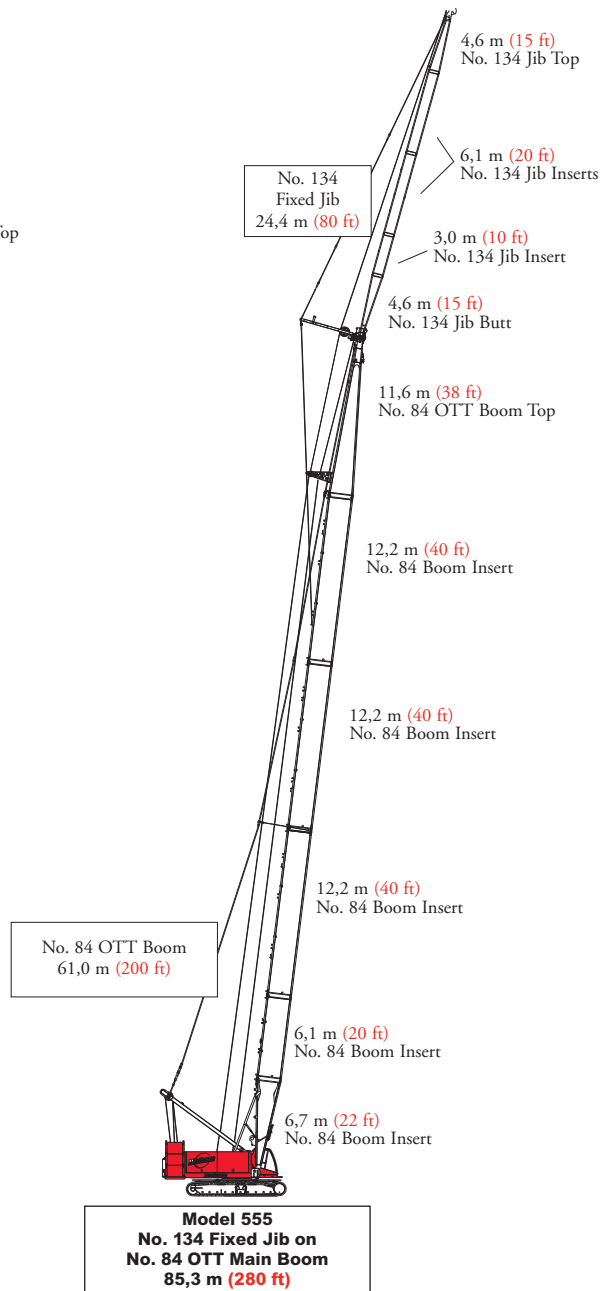
| Boom Length<br>m (ft) | Boom Inserts     |                  |                   |
|-----------------------|------------------|------------------|-------------------|
|                       | 3,0 m<br>(10 ft) | 6,1 m<br>(20 ft) | 12,2 m<br>(40 ft) |
| 18,3 (60)             | -                | -                | -                 |
| 21,3 (70)             | 1                | -                | -                 |
| 24,4 (80)             | -                | 1                | -                 |
| 27,4 (90)             | 1                | 1                | -                 |
| 30,5 (100)            | -                | -                | 1                 |
| 33,5 (110)            | 1                | -                | 1                 |
| 36,6 (120)            | -                | 1                | 1                 |
| 39,6 (130)            | 1                | 1                | 1                 |
| 42,7 (140)            | -                | -                | 2                 |
| 45,7 (150)            | 1                | -                | 2                 |
| 48,8 (160)            | -                | 1                | 2                 |
| 51,8 (170)            | 1                | 1                | 2                 |
| 54,9 (180)            | -                | -                | 3                 |
| 57,9 (190)            | 1                | -                | 3                 |
| 61,0 (200)            | -                | 1                | 3                 |
| 64,0 (210)            | 1                | 1                | 3                 |
| 67,1 (220)            | -                | -                | 4                 |
| 70,1 (230)            | 1                | -                | 4                 |
| 73,2 (240)            | -                | 1                | 4                 |
| 76,2 (250)            | 1                | 1                | 4                 |

Note: Uppermost 12,2 m (40') insert must include backstay lugs.



## No. 134 Fixed Jib Combinations

| Jib Length<br>m (ft) | Fixed Jib Inserts |                  |
|----------------------|-------------------|------------------|
|                      | 3,0 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                |
| 21,3 (70)            | -                 | 2                |
| 24,4 (80)            | 1                 | 2                |



model 555



# boom combinations

22

## No. 155 Luffing Jib Combinations

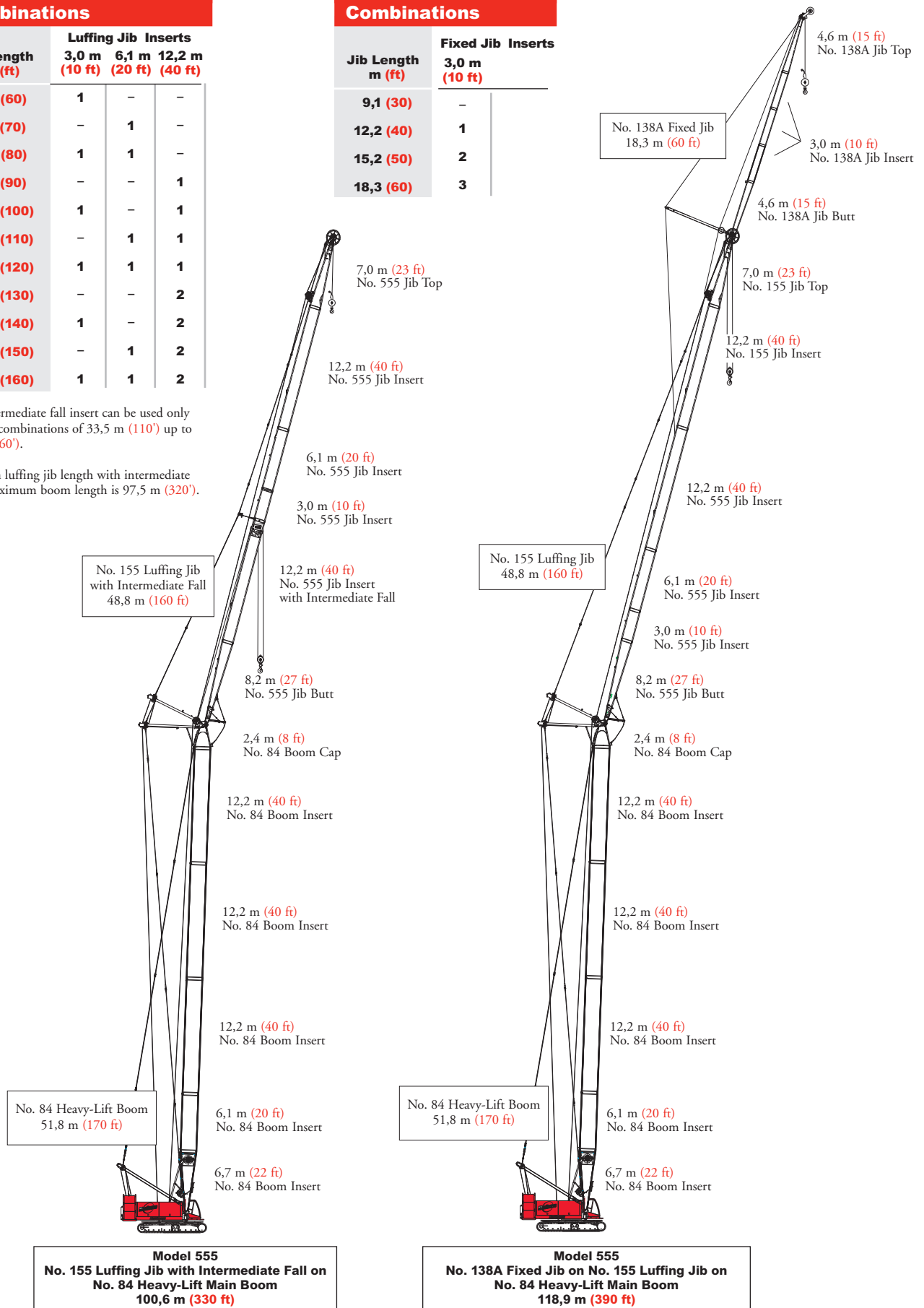
| Jib Length<br>m (ft) | Luffing Jib Inserts |                  |                   |
|----------------------|---------------------|------------------|-------------------|
|                      | 3,0 m<br>(10 ft)    | 6,1 m<br>(20 ft) | 12,2 m<br>(40 ft) |
| 18,3 (60)            | 1                   | -                | -                 |
| 21,3 (70)            | -                   | 1                | -                 |
| 24,4 (80)            | 1                   | 1                | -                 |
| 27,4 (90)            | -                   | -                | 1                 |
| 30,5 (100)           | 1                   | -                | 1                 |
| 33,5 (110)           | -                   | 1                | 1                 |
| 36,6 (120)           | 1                   | 1                | 1                 |
| 39,6 (130)           | -                   | -                | 2                 |
| 42,7 (140)           | 1                   | -                | 2                 |
| 45,7 (150)           | -                   | 1                | 2                 |
| 48,8 (160)           | 1                   | 1                | 2                 |

Note: Intermediate fall insert can be used only on boom combinations of 33,5 m (110') up to 48,8 m (160').

Maximum luffing jib length with intermediate fall on maximum boom length is 97,5 m (320').

## No. 138A Fixed Jib Combinations

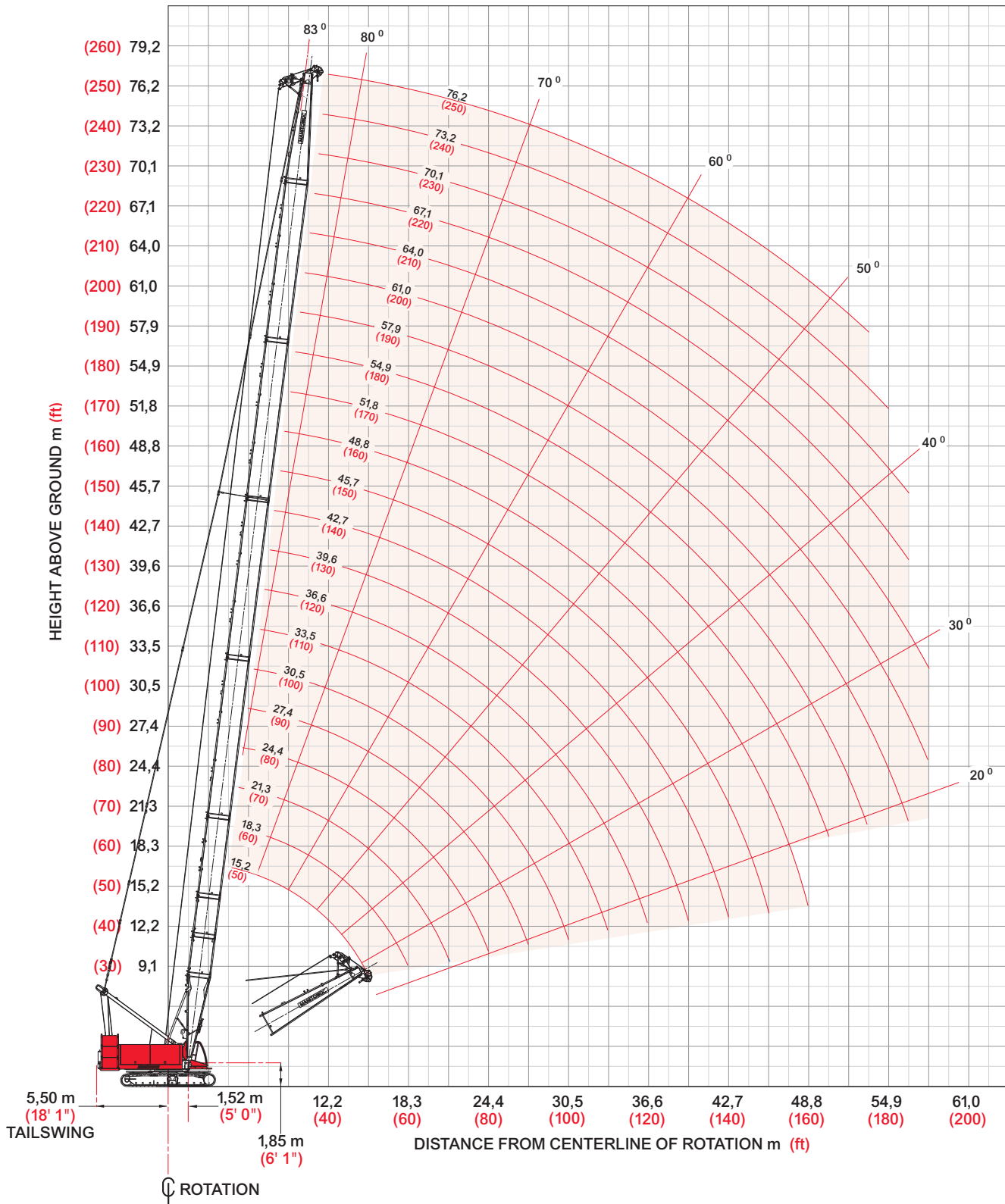
| Jib Length<br>m (ft) | Fixed Jib Inserts |  |
|----------------------|-------------------|--|
|                      | 3,0 m<br>(10 ft)  |  |
| 9,1 (30)             | -                 |  |
| 12,2 (40)            | 1                 |  |
| 15,2 (50)            | 2                 |  |
| 18,3 (60)            | 3                 |  |



# heavy-lift boom range diagram

## No. 84 Main Boom

23



model 555



# heavy-lift load charts

24

## Liftcrane Boom Capacities - Series 2

### Boom No. 84

44 678 kg (98,500 lb) Upperworks Counterweight 19 958 kg (44,000 lb) Carbody Counterweight

360° Rating

kg (lb) x 1 000

### Fixed Jib No. 134 on Heavy-Lift Boom No. 84

| Jib Length<br>m (ft) | Deduct from Capacity<br>when fixed jib is attached<br>kg (lb) |
|----------------------|---------------------------------------------------------------|
| 9,1 (30)             | 1 170 (3,900)                                                 |
| 12,2 (40)            | 2 130 (4,700)                                                 |
| 15,2 (50)            | 2 540 (5,600)                                                 |
| 18,3 (60)            | 2 990 (6,600)                                                 |
| 21,3 (70)            | 3 450 (7,600)                                                 |
| 24,4 (80)            | 3 950 (8,700)                                                 |

Deduct 590 kg (1,300 lb) from capacities when upper boom point is attached.

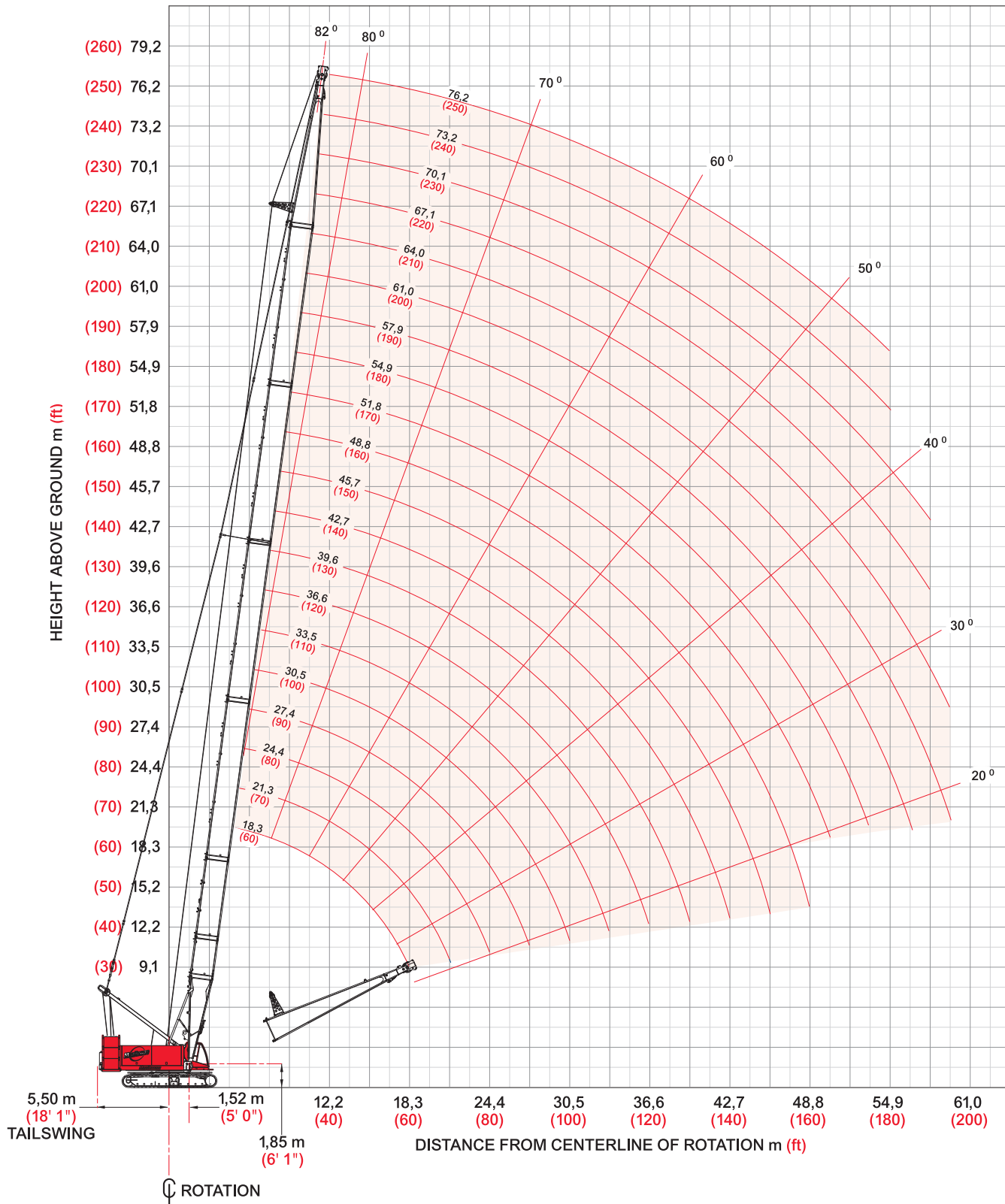
| Boom<br>m (ft) | 15,2<br>(50.0)   | 18,3<br>(60)     | 21,3<br>(70)     | 27,4<br>(90)     | 33,5<br>(110)   | 39,6<br>(130)   | 45,7<br>(150)   | 51,8<br>(170)   | 57,9<br>(190)  | 64,0<br>(210)  | 70,1<br>(230)  | 76,2<br>(250)  |
|----------------|------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|
| Radius         |                  |                  |                  |                  |                 |                 |                 |                 |                |                |                |                |
| 4,6<br>(15)    | 136,0<br>(300.0) | 135,6<br>(299.0) |                  |                  |                 |                 |                 |                 |                |                |                |                |
| 5,0<br>(17)    | 125,0<br>(266.5) | 125,0<br>(266.4) | 123,7<br>(266.2) |                  |                 |                 |                 |                 |                |                |                |                |
| 6,0<br>(20)    | 104,9<br>(228.0) | 104,9<br>(227.9) | 104,8<br>(227.7) | 100,3<br>(220.4) |                 |                 |                 |                 |                |                |                |                |
| 7,0<br>(24)    | 88,3<br>(179.9)  | 88,7<br>(180.6)  | 88,6<br>(180.9)  | 88,9<br>(181.1)  | 84,0<br>(181.3) | -<br>(159.3)    |                 |                 |                |                |                |                |
| 8,0<br>(28)    | 70,9<br>(141.9)  | 71,2<br>(142.5)  | 71,3<br>(142.8)  | 71,4<br>(142.9)  | 71,5<br>(143.0) | 69,6<br>(142.8) | 61,9<br>(133.6) | -<br>(115.7)    |                |                |                |                |
| 9,0<br>(32)    | 59,4<br>(116.6)  | 59,7<br>(117.1)  | 59,8<br>(117.4)  | 59,8<br>(117.4)  | 59,9<br>(117.5) | 60,0<br>(117.3) | 58,9<br>(116.9) | 51,5<br>(110.3) | -<br>(94.8)    |                |                |                |
| 11,0<br>(36)   | 44,5<br>(98.5)   | 44,7<br>(99.0)   | 44,8<br>(99.2)   | 44,8<br>(99.3)   | 44,8<br>(99.3)  | 44,7<br>(99.0)  | 44,6<br>(98.7)  | 44,4<br>(98.3)  | 40,8<br>(90.2) | 36,0<br>(79.5) |                |                |
| 12,0<br>(40)   | 39,3<br>(84.9)   | 39,6<br>(85.4)   | 39,7<br>(85.6)   | 39,7<br>(85.7)   | 39,6<br>(85.6)  | 39,5<br>(85.3)  | 39,4<br>(85.0)  | 39,2<br>(84.6)  | 38,7<br>(84.2) | 34,5<br>(75.6) | 30,3<br>(66.3) | -<br>(54.3)    |
| 15,0<br>(50)   | 28,7<br>(62.0)   | 29,0<br>(62.7)   | 29,1<br>(62.9)   | 29,1<br>(63.0)   | 29,1<br>(62.9)  | 29,0<br>(62.6)  | 28,8<br>(62.2)  | 28,6<br>(61.7)  | 28,4<br>(61.3) | 28,4<br>(60.7) | 26,6<br>(58.1) | 21,9<br>(47.9) |
| 18,0<br>(60)   |                  | 22,4<br>(48.5)   | 22,6<br>(48.9)   | 22,7<br>(49.0)   | 22,6<br>(48.9)  | 22,5<br>(48.6)  | 22,3<br>(48.2)  | 22,1<br>(47.7)  | 21,8<br>(47.2) | 21,6<br>(46.6) | 21,4<br>(46.1) | 19,0<br>(41.4) |
| 20,0<br>(70)   |                  |                  | 19,5<br>(39.2)   | 19,6<br>(39.5)   | 19,6<br>(39.4)  | 19,4<br>(39.0)  | 19,2<br>(38.7)  | 19,0<br>(38.1)  | 18,7<br>(37.7) | 18,5<br>(37.1) | 18,2<br>(36.5) | 17,2<br>(35.4) |
| 24,0<br>(80)   |                  |                  |                  | 15,0<br>(32.5)   | 15,0<br>(32.5)  | 14,9<br>(32.2)  | 14,7<br>(31.8)  | 14,4<br>(31.2)  | 14,3<br>(30.8) | 14,0<br>(30.2) | 13,7<br>(29.6) | 13,4<br>(28.9) |
| 26,0<br>(90)   |                  |                  |                  | 13,3<br>(27.2)   | 13,4<br>(27.3)  | 13,2<br>(27.0)  | 13,0<br>(26.6)  | 12,8<br>(26.0)  | 12,6<br>(25.5) | 12,3<br>(24.9) | 12,0<br>(24.3) | 11,8<br>(23.7) |
| 30,0<br>(100)  |                  |                  |                  |                  | 10,7<br>(23.2)  | 10,6<br>(22.9)  | 10,4<br>(22.5)  | 10,2<br>(21.9)  | 10,0<br>(21.5) | 9,7<br>(20.8)  | 9,4<br>(20.2)  | 9,1<br>(19.6)  |
| 32,0<br>(110)  |                  |                  |                  |                  | 9,7<br>(19.8)   | 9,5<br>(19.5)   | 9,4<br>(19.2)   | 9,1<br>(18.7)   | 8,9<br>(18.2)  | 8,6<br>(17.5)  | 8,3<br>(16.9)  | 8,1<br>(16.3)  |
| 36,0<br>(120)  |                  |                  |                  |                  |                 | 7,8<br>(16.8)   | 7,7<br>(16.5)   | 7,4<br>(15.9)   | 7,2<br>(15.5)  | 6,9<br>(14.8)  | 6,6<br>(14.2)  | 6,3<br>(13.6)  |
| 38,0<br>(130)  |                  |                  |                  |                  |                 | 7,1<br>(14.4)   | 6,9<br>(14.2)   | 6,7<br>(13.7)   | 6,5<br>(13.2)  | 6,2<br>(12.6)  | 5,9<br>(12.0)  | 5,6<br>(11.3)  |
| 42,0<br>(140)  |                  |                  |                  |                  |                 |                 | 5,7<br>(12.2)   | 5,5<br>(11.7)   | 5,2<br>(11.2)  | 5,0<br>(10.6)  | 4,7<br>(10.0)  | 4,4<br>(9.4)   |
| 44,0<br>(150)  |                  |                  |                  |                  |                 |                 | 5,1<br>(10.5)   | 4,9<br>(10.0)   | 4,7<br>(9.6)   | 4,4<br>(9.0)   | 4,2<br>(8.4)   | 3,9<br>(7.7)   |
| 48,0<br>(160)  |                  |                  |                  |                  |                 |                 |                 | 4,0<br>(8.6)    | 3,8<br>(8.1)   | 3,5<br>(7.5)   | 3,2<br>(6.9)   | 3,0<br>(6.3)   |
| 50,0<br>(170)  |                  |                  |                  |                  |                 |                 |                 | 3,6<br>(7.9)    | 3,4<br>(6.8)   | 3,1<br>(6.2)   | 2,9<br>(5.7)   | 2,6<br>(5.0)   |
| 54,0<br>(180)  |                  |                  |                  |                  |                 |                 |                 |                 | 2,7<br>(5.7)   | 2,4<br>(5.1)   | 2,1<br>(4.5)   |                |
| 56,0<br>(185)  |                  |                  |                  |                  |                 |                 |                 |                 | 2,3<br>(5.1)   | 2,1<br>(4.6)   | 1,8<br>(4.0)   |                |

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

# heavy-lift boom range diagram

**No. 84 OTT Boom**

25



model 555



# heavy-lift load charts

26

## Liftcrane Boom Capacities - Series 2

### Boom No. 84 OTT

44 678 kg (98,500 lb) Upperworks Counterweight 19 958 kg (44,000 lb) Carbody Counterweight

360° Rating

kg (lb) x 1 000

### Fixed Jib No. 134 on Boom No. 84 OTT

| Jib Length<br>m (ft) | Deduct from Capacity<br>when fixed jib is attached<br>kg (lb) |
|----------------------|---------------------------------------------------------------|
| 9,1 (30)             | 1 170 (3,900)                                                 |
| 12,2 (40)            | 2 130 (4,700)                                                 |
| 15,2 (50)            | 2 540 (5,600)                                                 |
| 18,3 (60)            | 2 990 (6,600)                                                 |
| 21,3 (70)            | 3 450 (7,600)                                                 |
| 24,4 (80)            | 3 950 (8,700)                                                 |

Deduct 590 kg (1,300 lb) from capacities when upper boom point is attached.

| Boom<br>m (ft) | 18,3<br>(60.0)   | 21,3<br>(70)     | 24,4<br>(80)     | 30,5<br>(100)   | 36,6<br>(120)   | 42,7<br>(140)   | 45,7<br>(150)   | 51,8<br>(170)   | 57,9<br>(190)  | 64,0<br>(210)  | 70,1<br>(230)  | 76,2<br>(250)  |
|----------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|
| Radius         |                  |                  |                  |                 |                 |                 |                 |                 |                |                |                |                |
| 4,3<br>(14)    | 136,0<br>(300.0) |                  |                  |                 |                 |                 |                 |                 |                |                |                |                |
| 5,0<br>(17)    | 124,9<br>(266.3) | 123,6<br>(266.1) | —<br>(248.9)     |                 |                 |                 |                 |                 |                |                |                |                |
| 6,0<br>(20)    | 105,0<br>(228.0) | 104,9<br>(227.8) | 105,1<br>(227.5) | 94,8<br>(208.0) |                 |                 |                 |                 |                |                |                |                |
| 7,0<br>(24)    | 88,5<br>(180.4)  | 88,6<br>(180.7)  | 88,6<br>(180.8)  | 87,5<br>(180.8) | 81,2<br>(176.2) |                 |                 |                 |                |                |                |                |
| 9,0<br>(30)    | 59,7<br>(128.8)  | 59,8<br>(129.0)  | 59,9<br>(129.1)  | 59,8<br>(128.9) | 59,7<br>(128.8) | 59,9<br>(128.4) | 59,6<br>(128.3) | —<br>(119.3)    |                |                |                |                |
| 10,0<br>(34)   | 51,3<br>(107.6)  | 51,4<br>(107.8)  | 51,4<br>(107.9)  | 51,3<br>(107.7) | 51,3<br>(107.5) | 51,1<br>(107.1) | 51,0<br>(107.0) | 51,2<br>(106.5) | 44,7<br>(98.4) |                |                |                |
| 12,0<br>(40)   | 39,7<br>(85.8)   | 39,8<br>(86.0)   | 39,8<br>(86.0)   | 39,7<br>(85.8)  | 39,6<br>(85.6)  | 39,4<br>(85.1)  | 39,4<br>(85.0)  | 39,1<br>(84.5)  | 39,0<br>(84.1) | 37,1<br>(81.2) | 35,2<br>(77.5) | —<br>(63.2)    |
| 15,0<br>(50)   | 29,2<br>(63.2)   | 29,3<br>(63.4)   | 29,3<br>(63.4)   | 29,2<br>(63.2)  | 29,1<br>(63.0)  | 28,9<br>(62.5)  | 28,9<br>(62.4)  | 28,6<br>(61.8)  | 28,4<br>(61.3) | 28,2<br>(60.8) | 28,0<br>(60.2) | 27,2<br>(59.6) |
| 18,0<br>(60)   | 22,8<br>(49.2)   | 22,9<br>(49.5)   | 22,9<br>(49.5)   | 22,8<br>(49.3)  | 22,7<br>(49.1)  | 22,5<br>(48.6)  | 22,4<br>(48.4)  | 22,2<br>(47.9)  | 21,9<br>(47.4) | 21,7<br>(46.8) | 21,3<br>(46.1) | 21,1<br>(45.5) |
| 20,0<br>(70)   |                  | 19,8<br>(39.9)   | 19,8<br>(40.0)   | 19,7<br>(39.8)  | 19,6<br>(39.6)  | 19,4<br>(39.1)  | 19,3<br>(39.0)  | 19,1<br>(38.4)  | 18,8<br>(37.9) | 18,6<br>(37.3) | 18,3<br>(36.6) | 18,0<br>(36.0) |
| 24,0<br>(80)   |                  |                  | 15,3<br>(33.1)   | 15,3<br>(33.0)  | 15,2<br>(32.8)  | 14,9<br>(32.3)  | 14,9<br>(32.2)  | 14,6<br>(31.6)  | 14,4<br>(31.1) | 14,1<br>(30.4) | 13,8<br>(29.8) | 13,5<br>(29.1) |
| 26,0<br>(90)   |                  |                  |                  | 13,6<br>(27.8)  | 13,5<br>(27.6)  | 13,3<br>(27.1)  | 13,2<br>(27.0)  | 12,9<br>(26.4)  | 12,7<br>(25.9) | 12,4<br>(25.2) | 12,1<br>(24.6) | 11,9<br>(24.0) |
| 30,0<br>(100)  |                  |                  |                  | 10,9<br>(23.6)  | 10,9<br>(23.5)  | 10,7<br>(23.0)  | 10,6<br>(22.9)  | 10,4<br>(22.4)  | 10,1<br>(21.8) | 9,8<br>(21.2)  | 9,5<br>(20.5)  | 9,2<br>(19.9)  |
| 32,0<br>(110)  |                  |                  |                  |                 | 9,8<br>(20.2)   | 9,6<br>(19.8)   | 9,6<br>(19.7)   | 9,3<br>(19.1)   | 9,1<br>(18.6)  | 8,8<br>(17.9)  | 8,5<br>(17.3)  | 8,2<br>(16.6)  |
| 36,0<br>(120)  |                  |                  |                  |                 | 8,1<br>(17.5)   | 7,9<br>(17.1)   | 7,9<br>(17.0)   | 7,6<br>(16.4)   | 7,4<br>(15.9)  | 7,1<br>(15.2)  | 6,8<br>(14.6)  | 6,5<br>(13.9)  |
| 38,0<br>(130)  |                  |                  |                  |                 |                 | 7,2<br>(14.8)   | 7,2<br>(14.7)   | 6,9<br>(14.2)   | 6,7<br>(13.6)  | 6,4<br>(13.0)  | 6,1<br>(12.3)  | 5,8<br>(11.7)  |
| 42,0<br>(140)  |                  |                  |                  |                 |                 | 6,0<br>(12.8)   | 5,9<br>(12.8)   | 5,7<br>(12.2)   | 5,4<br>(11.7)  | 5,2<br>(11.1)  | 4,9<br>(10.4)  | 4,6<br>(9.8)   |
| 44,0<br>(150)  |                  |                  |                  |                 |                 |                 | 5,4<br>(10.6)   | 5,2<br>(10.6)   | 4,9<br>(10.1)  | 4,6<br>(9.4)   | 4,3<br>(8.8)   | 4,0<br>(8.1)   |
| 48,0<br>(160)  |                  |                  |                  |                 |                 |                 |                 | 4,2<br>(9.1)    | 4,0<br>(8.6)   | 3,7<br>(8.0)   | 3,5<br>(7.4)   | 3,1<br>(6.7)   |
| 50,0<br>(170)  |                  |                  |                  |                 |                 |                 |                 | 3,8<br>(7.3)    | 3,6<br>(7.3)   | 3,3<br>(6.7)   | 3,0<br>(6.1)   | 2,7<br>(5.4)   |
| 54,0<br>(180)  |                  |                  |                  |                 |                 |                 |                 |                 | 2,9<br>(6.2)   | 2,6<br>(5.6)   | 2,3<br>(5.0)   | 2,1<br>(4.3)   |
| 56,0<br>(185)  |                  |                  |                  |                 |                 |                 |                 |                 | 2,6<br>(5.7)   | 2,3<br>(5.1)   | 2,0<br>(4.5)   |                |
| 58,0<br>(195)  |                  |                  |                  |                 |                 |                 |                 |                 |                | 2,0<br>(4.1)   |                |                |

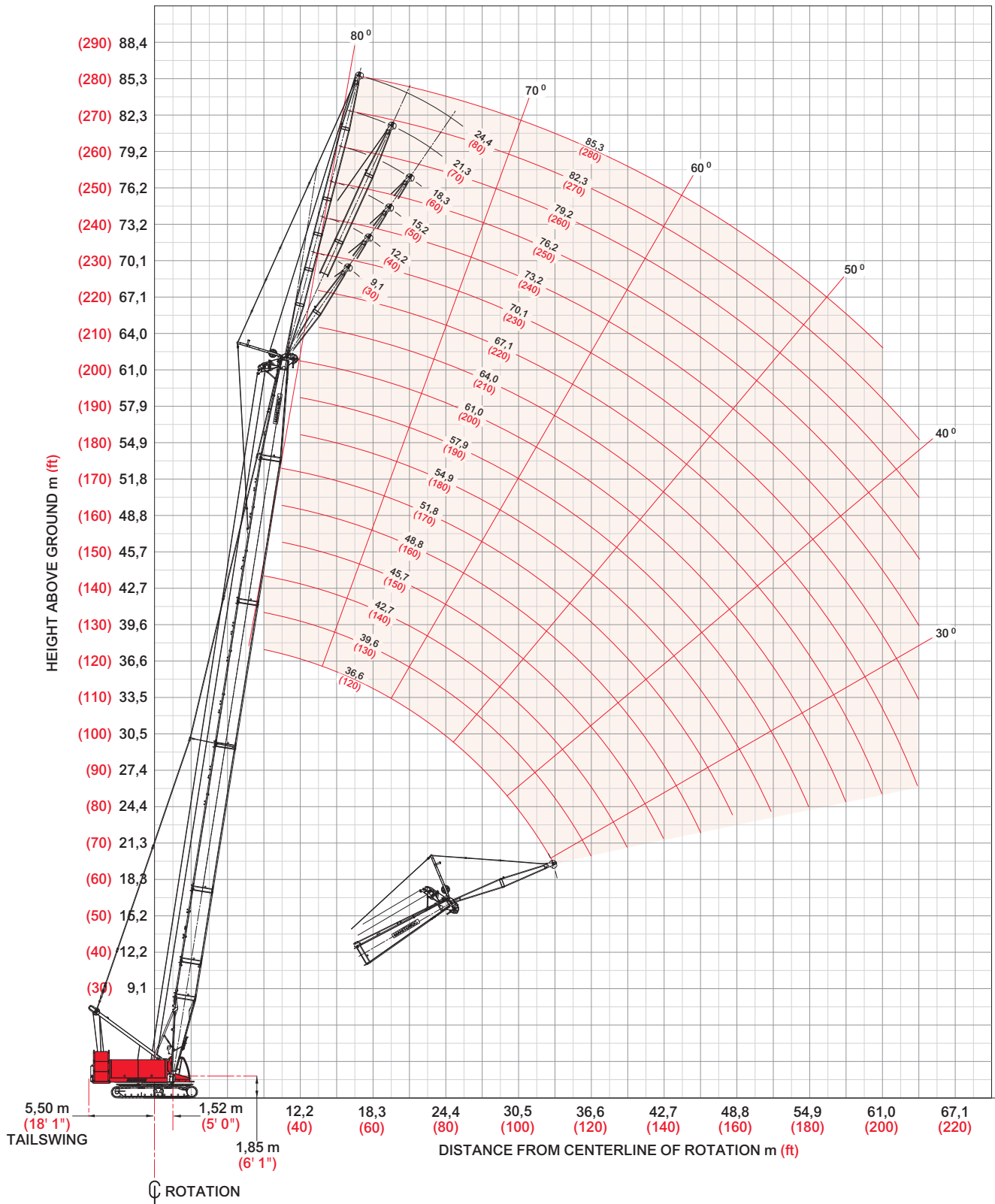
Meets ANSI B30.5 Requirements - Capacities do not exceed 75% of static tipping load.  
NOTICE: This capacity chart is for reference only and must not be used for lifting purposes.

Courtesy of Crane.Market

# fixed jib range diagram

## No. 134 Fixed Jib on No. 84 Main Boom

27



model 555  
Manitowoc

# fixed jib load charts

28

## Liftcrane Boom Capacities - Series 2

### Fixed Jib No. 134 with 3 810 mm (12' 6") strut on Boom No. 84

44 678 kg (98,500 lb) Upperworks Counterweight 19 958 kg (44,000 lb) Carbody Counterweight

360° Rating

kg (lb) x 1 000

5° Offset

25° Offset

| Boom<br>m (ft)        | 27,4<br>(90)   | 36,6<br>(120)  | 48,8<br>(160)  | 57,9<br>(190)  | 67,1<br>(220)  |
|-----------------------|----------------|----------------|----------------|----------------|----------------|
| Radius<br>9,1<br>(30) | 26,7<br>(59.0) |                |                |                |                |
| 12,0<br>(40)          | 26,7<br>(59.0) | 26,7<br>(59.0) | -<br>(59.0)    |                |                |
| 14,0<br>(50)          | 26,7<br>(58.7) | 26,7<br>(59.0) | 26,7<br>(59.0) | 26,7<br>(59.0) | -<br>(46.3)    |
| 18,0<br>(60)          | 23,1<br>(49.5) | 22,7<br>(48.8) | 22,1<br>(47.6) | 21,7<br>(46.7) | 20,5<br>(45.3) |
| 24,0<br>(80)          | 15,3<br>(33.1) | 15,0<br>(32.4) | 14,4<br>(31.1) | 14,0<br>(30.2) | 13,6<br>(29.3) |
| 28,0<br>(100)         | 12,2<br>(23.7) | 11,9<br>(23.0) | 11,3<br>(21.8) | 10,9<br>(20.8) | 10,4<br>(19.9) |
| 36,0<br>(120)         |                | 7,9<br>(17.0)  | 7,3<br>(15.8)  | 6,9<br>(14.8)  | 6,4<br>(13.8)  |
| 40,0<br>(140)         |                | 6,5<br>(12.7)  | 6,0<br>(11.6)  | 5,5<br>(10.6)  | 5,1<br>(9.6)   |
| 48,0<br>(160)         |                |                | 3,9<br>(8.4)   | 3,5<br>(7.5)   | 3,1<br>(6.5)   |
| 52,0<br>(180)         |                |                | 3,1<br>(6.0)   | 2,7<br>(5.0)   | 2,3<br>(4.1)   |
| 60,0<br>(200)         |                |                |                |                |                |

| Boom<br>m (ft)      | 27,4<br>(90)   | 36,6<br>(120)  | 48,8<br>(160)  | 57,9<br>(190)  | 67,1<br>(220)  |
|---------------------|----------------|----------------|----------------|----------------|----------------|
| Radius<br>-<br>(40) | -<br>(46.7)    |                |                |                |                |
| 14,0<br>(50)        | 19,7<br>(41.8) | 21,0<br>(44.8) | -<br>(47.7)    |                |                |
| 18,0<br>(60)        | 17,3<br>(38.0) | 18,8<br>(41.2) | 20,2<br>(44.4) | 21,0<br>(46.2) | -<br>(40.9)    |
| 20,0<br>(70)        | 16,4<br>(35.0) | 17,9<br>(38.3) | 19,3<br>(39.7) | 19,5<br>(39.0) | 18,3<br>(38.3) |
| 24,0<br>(80)        | 14,9<br>(32.6) | 15,6<br>(33.5) | 15,0<br>(32.5) | 14,7<br>(31.8) | 14,4<br>(31.0) |
| 28,0<br>(100)       | 12,5<br>(24.2) | 12,3<br>(23.8) | 11,8<br>(22.8) | 11,5<br>(22.0) | 11,1<br>(21.2) |
| 36,0<br>(120)       |                | 8,1<br>(17.4)  | 7,6<br>(16.5)  | 7,3<br>(15.7)  | 6,9<br>(14.8)  |
| 40,0<br>(140)       |                |                | 6,2<br>(12.1)  | 5,9<br>(11.2)  | 5,5<br>(10.4)  |
| 48,0<br>(160)       |                |                |                | 3,7<br>(7.9)   | 3,3<br>(7.1)   |
| 52,0<br>(180)       |                |                |                |                | 2,5<br>(4.6)   |
| 56,0<br>(190)       |                |                |                |                | 1,8<br>(4.1)   |

| Boom<br>m (ft)        | 27,4<br>(90)   | 36,6<br>(120)  | 48,8<br>(160)  | 57,9<br>(190)  | 64,0<br>(210)  |
|-----------------------|----------------|----------------|----------------|----------------|----------------|
| Radius<br>9,1<br>(30) |                |                |                |                |                |
| 12,0<br>(40)          | 18,5<br>(40.7) | -<br>(42.0)    |                |                |                |
| 14,0<br>(50)          | 17,8<br>(38.5) | 18,5<br>(40.0) | 19,1<br>(41.5) | -<br>(42.4)    |                |
| 18,0<br>(60)          | 16,6<br>(36.6) | 17,4<br>(38.2) | 18,1<br>(39.9) | 18,6<br>(40.9) | 18,7<br>(41.3) |
| 24,0<br>(80)          | 15,1<br>(33.3) | 15,4<br>(33.1) | 14,7<br>(31.8) | 14,3<br>(30.9) | 14,0<br>(30.2) |
| 28,0<br>(100)         | 12,6<br>(24.6) | 12,2<br>(23.7) | 11,6<br>(22.4) | 11,2<br>(21.4) | 10,9<br>(20.7) |
| 36,0<br>(120)         | 8,6<br>(18.5)  | 8,2<br>(17.7)  | 7,6<br>(16.3)  | 7,1<br>(15.3)  | 6,8<br>(14.6)  |
| 40,0<br>(140)         | 7,1<br>(15.6)  | 6,8<br>(13.4)  | 6,2<br>(12.1)  | 5,7<br>(11.1)  | 5,4<br>(10.4)  |
| 48,0<br>(160)         |                | 4,7<br>(10.2)  | 4,1<br>(8.9)   | 3,7<br>(7.9)   | 3,4<br>(7.2)   |
| 52,0<br>(180)         |                |                | 3,4<br>(6.5)   | 2,9<br>(5.5)   | 2,6<br>(4.8)   |
| 60,0<br>(200)         |                |                | 2,1<br>(4.5)   |                |                |

| Boom<br>m (ft)      | 27,4<br>(90)   | 36,6<br>(120)  | 48,8<br>(160)  | 57,9<br>(190)  | 64,0<br>(210)  |
|---------------------|----------------|----------------|----------------|----------------|----------------|
| Radius<br>-<br>(40) |                |                |                |                |                |
| 14,0<br>(50)        |                |                |                |                |                |
| 18,0<br>(60)        | 12,8<br>(28.2) | 13,1<br>(29.0) |                |                |                |
| 20,0<br>(70)        | 12,1<br>(25.8) | 12,8<br>(27.6) | 13,1<br>(28.8) | -<br>(28.9)    | -<br>(27.9)    |
| 24,0<br>(80)        | 10,9<br>(23.9) | 11,7<br>(25.7) | 12,6<br>(27.6) | 12,7<br>(27.9) | 12,2<br>(27.0) |
| 28,0<br>(100)       | 9,9<br>(20.9)  | 10,8<br>(22.8) | 11,7<br>(24.2) | 12,0<br>(23.5) | 11,7<br>(22.9) |
| 36,0<br>(120)       |                | 8,6<br>(18.6)  | 8,2<br>(17.7)  | 7,8<br>(16.9)  | 7,6<br>(16.4)  |
| 40,0<br>(140)       |                | 7,2<br>(14.0)  | 6,7<br>(13.1)  | 6,4<br>(12.3)  | 6,1<br>(11.7)  |
| 48,0<br>(160)       |                |                | 4,5<br>(9.7)   | 4,2<br>(8.9)   | 3,9<br>(8.3)   |
| 52,0<br>(180)       |                |                |                | 3,3<br>(6.2)   | 3,0<br>(5.6)   |
| 56,0<br>(190)       |                |                |                | 2,6<br>(5.1)   | 2,3<br>(4.5)   |

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

# fixed jib load charts

## Liftcrane Boom Capacities - Series 2

### Fixed Jib No. 134 with 3 810 mm (12' 6") strut on Boom No. 84

44 678 kg (98,500 lb) Upperworks Counterweight 19 958 kg (44,000 lb) Carbody Counterweight

360° Rating

kg (lb) x 1 000

29

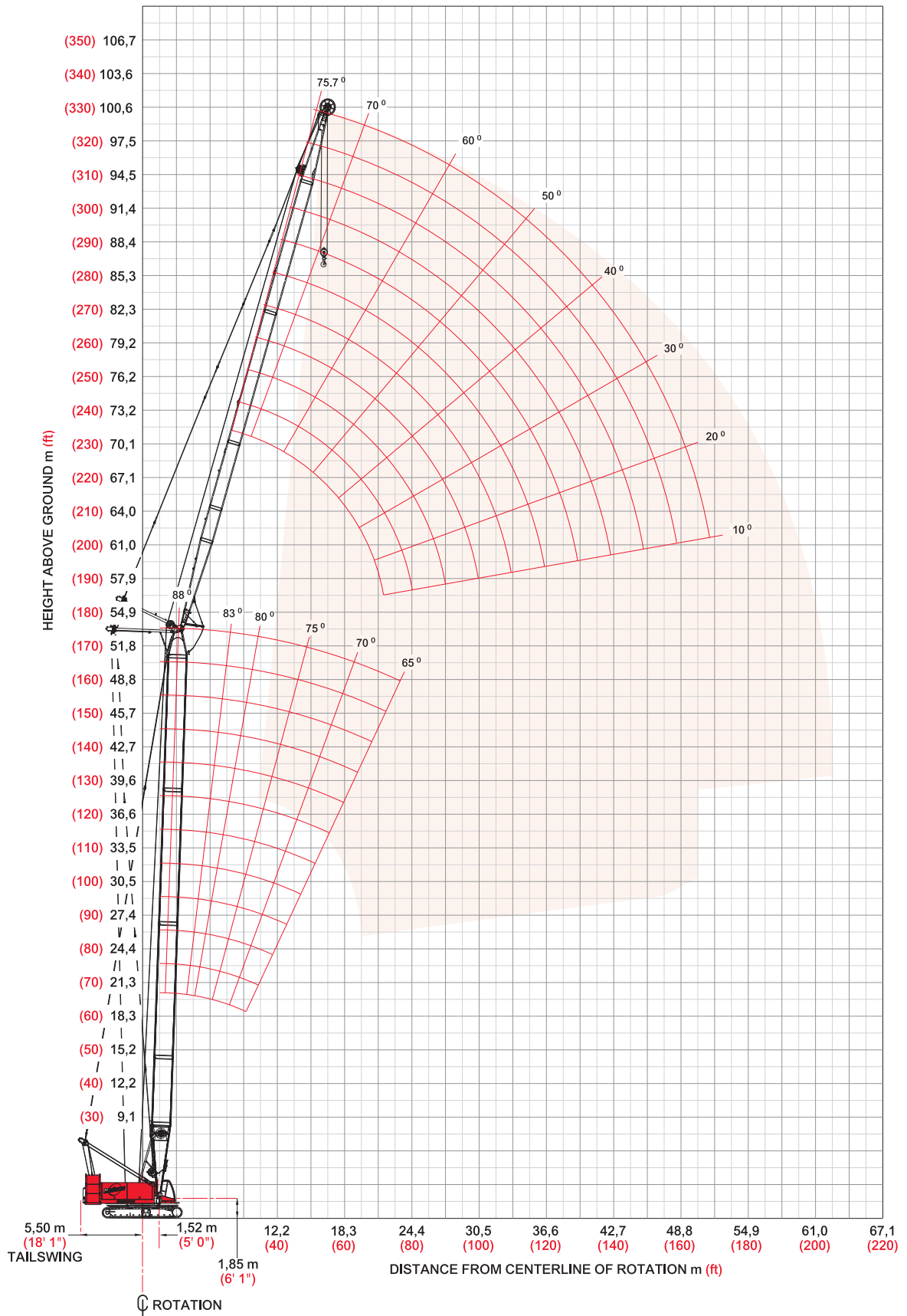
| 5° Offset          |                        |                |                |                |                |                | 25° Offset             |                |                |                |                |                |                |
|--------------------|------------------------|----------------|----------------|----------------|----------------|----------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Boom<br>m (ft)     | 27,4<br>(90)           | 36,6<br>(120)  | 48,8<br>(160)  | 57,9<br>(190)  | 64,0<br>(210)  |                | Boom<br>m (ft)         | 27,4<br>(90)   | 36,6<br>(120)  | 48,8<br>(160)  | 57,9<br>(190)  | 64,0<br>(210)  |                |
| Jib 18,3 m (60 ft) | Radius<br>10,7<br>(35) | 13,6<br>(30.0) |                |                |                |                | Radius<br>18,0<br>(60) | -<br>(23.9)    |                |                |                |                |                |
|                    | 14,0<br>(50)           | 13,5<br>(29.7) | 13,6<br>(30.0) | -<br>(30.0)    |                |                | 20,0<br>(70)           | 10,5<br>(22.9) | 10,8<br>(23.5) | -<br>(24.1)    |                |                |                |
|                    | 18,0<br>(60)           | 12,8<br>(28.2) | 13,3<br>(29.4) | 13,6<br>(30.0) | 13,6<br>(30.0) | 13,6<br>(30.0) | 24,0<br>(80)           | 9,6<br>(21.0)  | 10,3<br>(22.7) | 10,6<br>(23.4) | 10,7<br>(23.5) | 10,7<br>(22.7) |                |
|                    | 20,0<br>(70)           | 12,4<br>(26.8) | 13,0<br>(28.2) | 13,5<br>(29.5) | 13,6<br>(30.0) | 13,6<br>(30.0) | 26,0<br>(90)           | 9,0<br>(19.3)  | 9,8<br>(21.0)  | 10,4<br>(22.8) | 10,4<br>(22.7) | 10,4<br>(22.0) | 10,4<br>(22.0) |
|                    | 24,0<br>(80)           | 11,6<br>(25.5) | 12,3<br>(27.0) | 12,9<br>(28.5) | 13,3<br>(29.3) | 13,5<br>(29.8) | 28,0<br>(100)          | 8,6<br>(17.9)  | 9,3<br>(19.6)  | 10,2<br>(21.4) | 10,2<br>(22.0) | 10,2<br>(21.4) | 10,2<br>(21.4) |
|                    | 28,0<br>(100)          | 10,9<br>(23.2) | 11,6<br>(24.0) | 11,8<br>(22.7) | 11,3<br>(21.7) | 11,0<br>(21.0) | 36,0<br>(120)          | 7,2<br>(15.7)  | 7,9<br>(17.3)  | 8,4<br>(18.1)  | 8,1<br>(17.3)  | 8,1<br>(16.8)  | 8,1<br>(16.8)  |
|                    | 36,0<br>(120)          | 8,7<br>(18.8)  | 8,3<br>(17.9)  | 7,7<br>(16.6)  | 7,2<br>(15.6)  | 6,9<br>(14.9)  | 40,0<br>(140)          |                | 7,3<br>(14.5)  | 6,9<br>(13.5)  | 6,5<br>(12.7)  | 6,5<br>(12.1)  | 6,5<br>(12.1)  |
|                    | 40,0<br>(140)          | 7,3<br>(14.5)  | 6,9<br>(13.7)  | 6,3<br>(12.3)  | 5,9<br>(11.3)  | 5,5<br>(10.6)  | 48,0<br>(160)          |                |                | 4,7<br>(10.0)  | 4,3<br>(9.2)   | 4,3<br>(8.7)   | 4,3<br>(8.7)   |
|                    | 48,0<br>(160)          |                | 4,9<br>(10.5)  | 4,3<br>(9.2)   | 3,8<br>(8.1)   | 3,5<br>(7.4)   | 52,0<br>(180)          |                |                | 3,8<br>(7.3)   | 3,5<br>(6.5)   | 3,5<br>(6.0)   | 3,5<br>(6.0)   |
|                    | 56,0<br>(190)          |                |                | 2,8<br>(5.7)   | 2,4<br>(4.7)   | 2,0<br>(4.0)   | 56,0<br>(190)          |                |                |                | 2,7<br>(4.4)   | 2,5<br>(4.8)   | 2,5<br>(4.8)   |
|                    | 60,0<br>(190)          |                |                |                |                |                | 60,0<br>(190)          |                |                |                | 2,1<br>(4.4)   |                |                |
| Jib 24,4 m (80 ft) | Radius<br>10,7<br>(35) |                |                |                |                |                | Radius<br>18,0<br>(60) |                |                |                |                |                |                |
|                    | 14,0<br>(50)           | 9,2<br>(20.2)  | 9,2<br>(20.4)  | -<br>(20.6)    |                |                | 20,0<br>(70)           | 7,5<br>(16.4)  | -<br>(16.7)    |                |                |                |                |
|                    | 18,0<br>(60)           | 9,0<br>(19.9)  | 9,1<br>(20.1)  | 9,2<br>(20.4)  | 9,3<br>(20.5)  | 9,3<br>(20.6)  | 24,0<br>(80)           | 7,1<br>(15.6)  | 7,3<br>(16.1)  | -<br>(16.5)    |                |                |                |
|                    | 20,0<br>(70)           | 8,9<br>(19.2)  | 9,0<br>(19.9)  | 9,1<br>(20.1)  | 9,2<br>(20.3)  | 9,2<br>(20.3)  | 26,0<br>(90)           | 6,9<br>(15.0)  | 7,1<br>(15.5)  | 7,3<br>(16.0)  | 7,4<br>(16.3)  | 7,5<br>(16.4)  | 7,5<br>(16.4)  |
|                    | 24,0<br>(80)           | 8,3<br>(18.2)  | 8,8<br>(19.3)  | 9,0<br>(19.9)  | 9,1<br>(20.1)  | 9,1<br>(20.1)  | 28,0<br>(100)          | 6,7<br>(14.2)  | 6,9<br>(14.9)  | 7,2<br>(15.5)  | 7,3<br>(15.9)  | 7,4<br>(16.0)  | 7,4<br>(16.0)  |
|                    | 28,0<br>(100)          | 7,7<br>(16.4)  | 8,2<br>(17.7)  | 8,8<br>(18.9)  | 9,0<br>(19.6)  | 9,0<br>(19.8)  | 36,0<br>(120)          | 5,5<br>(12.2)  | 6,1<br>(13.4)  | 6,6<br>(14.6)  | 6,8<br>(15.0)  | 6,8<br>(15.1)  | 6,8<br>(15.1)  |
|                    | 36,0<br>(120)          | 6,8<br>(14.9)  | 7,3<br>(16.2)  | 7,8<br>(16.8)  | 7,3<br>(15.7)  | 7,2<br>(15.4)  | 40,0<br>(140)          | 5,1<br>(10.7)  | 5,6<br>(11.9)  | 6,3<br>(13.3)  | 6,6<br>(13.4)  | 6,6<br>(13.1)  | 6,6<br>(13.1)  |
|                    | 40,0<br>(140)          | 6,4<br>(13.6)  | 6,9<br>(14.0)  | 6,4<br>(12.5)  | 5,9<br>(11.5)  | 5,8<br>(11.1)  | 48,0<br>(160)          |                | 4,9<br>(10.7)  | 5,0<br>(10.7)  | 4,6<br>(9.9)   | 4,5<br>(9.6)   | 4,5<br>(9.6)   |
|                    | 48,0<br>(160)          | 5,5<br>(11.8)  | 5,0<br>(10.8)  | 4,4<br>(9.4)   | 3,9<br>(8.3)   | 3,7<br>(8.0)   | 52,0<br>(180)          |                | 4,6<br>(10.7)  | 4,1<br>(8.0)   | 3,8<br>(7.2)   | 3,6<br>(6.9)   | 3,6<br>(6.9)   |
|                    | 56,0<br>(190)          |                | 3,6<br>(7.4)   | 3,0<br>(6.0)   | 2,5<br>(4.9)   | 2,3<br>(4.6)   | 60,0<br>(200)          |                |                | 2,7<br>(5.8)   | 2,4<br>(5.0)   | 2,2<br>(4.7)   | 2,2<br>(4.7)   |
|                    | 64,0<br>(210)          |                |                | 1,9<br>(4.2)   |                |                | 64,0<br>(210)          |                |                |                | 1,8<br>(4.1)   |                |                |

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

# luffing jib range diagram

## No. 155 Luffing Jib on No. 84 Main Boom

30



# Luffing jib load charts

## Liftcrane Luffing Jib Capacities - Series 2

### Luffing Jib No. 155 on Boom No. 84

44 680 kg (98,500 lb) Counterweight 19 960 kg (44,000 lb) Carbody Counterweight

360° Rating

kg (lb) x 1 000

88° Boom Angle

| Boom<br>m (ft)                        |                        | 18,3<br>(60)   | 24,4<br>(80)   | 30,5<br>(100)  | 42,7<br>(140)  | 51,8<br>(170)  |
|---------------------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|
| Luffing Jib Length<br>18,3 m (60 ft)  | Radius<br>10,0<br>(35) | -              | -              | -              | -              | -              |
|                                       | 12,0<br>(40)           | 38,2<br>(83.5) | 37,0<br>(80.5) | 35,9<br>(77.9) | -              | -              |
|                                       | 14,0<br>(50)           | 32,7<br>(66.3) | 31,8<br>(64.7) | 30,9<br>(63.1) | 28,0<br>(57.6) | -              |
|                                       | 16,0<br>(55)           | 28,4<br>(59.1) | 28,0<br>(59.2) | 27,3<br>(58.0) | 25,1<br>(53.3) | -              |
|                                       | 18,0<br>(60)           | 23,7<br>(50.6) | 25,1<br>(54.6) | 24,7<br>(53.8) | 22,8<br>(49.7) | -              |
|                                       | 20,0<br>(70)           |                |                |                | 20,8<br>(36.5) | -              |
|                                       | 24,0<br>(80)           |                |                |                |                | 39,1<br>(39.1) |
|                                       | 26,0<br>(90)           |                |                |                |                |                |
|                                       | 28,0<br>(95)           |                |                |                |                |                |
|                                       | 30,0<br>(100)          |                |                |                |                |                |
| Boom<br>m (ft)                        |                        | 18,3<br>(60)   | 24,4<br>(80)   | 30,5<br>(100)  | 42,7<br>(140)  | 51,8<br>(170)  |
| Luffing Jib Length<br>27,4 m (90 ft)  | Radius<br>10,0<br>(35) | -              | -              | -              | -              | -              |
|                                       | 12,0<br>(40)           | 33,7<br>(73.9) | 33,4<br>(73.2) | 32,8<br>(72.1) | -              | -              |
|                                       | 14,0<br>(50)           | 31,4<br>(66.4) | 31,2<br>(65.4) | 30,7<br>(62.7) | 25,3<br>(53.0) | -              |
|                                       | 16,0<br>(55)           | 28,7<br>(59.3) | 28,4<br>(59.4) | 27,1<br>(57.1) | 23,2<br>(49.7) | -              |
|                                       | 18,0<br>(60)           | 24,5<br>(53.1) | 25,1<br>(54.5) | 24,2<br>(52.8) | 21,4<br>(46.8) | -              |
|                                       | 20,0<br>(70)           | 21,4<br>(43.5) | 22,1<br>(45.1) | 22,0<br>(45.0) | 19,8<br>(41.5) | -              |
|                                       | 24,0<br>(80)           | 16,9<br>(36.7) | 17,6<br>(38.1) | 17,5<br>(38.0) | 17,0<br>(37.1) | -              |
|                                       | 26,0<br>(90)           | 15,1<br>(27.9) | 15,9<br>(31.5) | 15,8<br>(32.7) | 15,8<br>(32.6) | -              |
|                                       | 28,0<br>(95)           | 11,6<br>(22.0) | 13,3<br>(25.1) | 14,1<br>(27.8) | 14,3<br>(30.4) | -              |
|                                       | 30,0<br>(100)          |                |                |                | 11,7<br>(23.0) | -              |
| Boom<br>m (ft)                        |                        | 18,3<br>(60)   | 24,4<br>(80)   | 30,5<br>(100)  | 42,7<br>(140)  | 51,8<br>(170)  |
| Luffing Jib Length<br>36,6 m (120 ft) | Radius<br>12,0<br>(40) | -              | -              | -              | -              | -              |
|                                       | 14,0<br>(50)           | 23,9<br>(50.6) | 23,6<br>(50.2) | 23,2<br>(49.5) | 21,5<br>(46.9) | -              |
|                                       | 18,0<br>(60)           | 20,9<br>(45.7) | 20,8<br>(45.6) | 20,7<br>(45.3) | 19,3<br>(42.2) | -              |
|                                       | 20,0<br>(70)           | 19,5<br>(41.3) | 19,5<br>(41.4) | 19,5<br>(41.3) | 18,0<br>(38.0) | -              |
|                                       | 24,0<br>(80)           | 17,1<br>(37.1) | 17,2<br>(37.5) | 17,1<br>(37.4) | 15,7<br>(34.3) | -              |
|                                       | 30,0<br>(100)          | 12,7<br>(27.5) | 13,0<br>(28.1) | 12,9<br>(28.0) | 12,9<br>(27.9) | -              |
|                                       | 36,0<br>(120)          | 8,4<br>(17.4)  | 9,6<br>(19.8)  | 10,1<br>(21.9) | 10,1<br>(21.9) | -              |
|                                       | 42,0<br>(140)          |                |                |                |                |                |
|                                       | 48,0<br>(160)          |                |                |                |                |                |
|                                       | -<br>(170)             |                |                |                |                |                |
| Boom<br>m (ft)                        |                        | 18,3<br>(60)   | 24,4<br>(80)   | 30,5<br>(100)  | 42,7<br>(140)  | 51,8<br>(170)  |
| Luffing Jib Length<br>48,8 m (160 ft) | Radius<br>12,0<br>(40) | -              | -              | -              | -              | -              |
|                                       | 14,0<br>(50)           | -              | -              | -              | -              | -              |
|                                       | 18,0<br>(60)           | 13,4<br>(29.3) | 13,3<br>(29.2) | 13,3<br>(29.1) | 12,4<br>(27.3) | 10,9<br>(24.0) |
|                                       | 20,0<br>(70)           | 12,4<br>(26.2) | 12,4<br>(26.3) | 12,4<br>(26.2) | 12,1<br>(25.9) | 10,6<br>(23.3) |
|                                       | 24,0<br>(80)           | 10,8<br>(23.5) | 10,8<br>(23.6) | 10,8<br>(23.6) | 10,7<br>(23.5) | 10,2<br>(22.5) |
|                                       | 30,0<br>(100)          | 8,6<br>(18.8)  | 8,7<br>(18.9)  | 8,8<br>(19.1)  | 8,8<br>(19.2)  | 8,8<br>(19.1)  |
|                                       | 36,0<br>(120)          | 6,9<br>(15.1)  | 7,0<br>(15.2)  | 7,0<br>(15.3)  | 7,2<br>(15.6)  | 7,2<br>(15.7)  |
|                                       | 42,0<br>(140)          | 5,5<br>(12.0)  | 5,6<br>(12.2)  | 5,7<br>(12.3)  | 5,8<br>(12.6)  | 5,9<br>(12.7)  |
|                                       | 48,0<br>(160)          | 4,5<br>(9.7)   | 4,5<br>(9.8)   | 4,6<br>(10.0)  | 4,7<br>(10.2)  | 4,8<br>(10.3)  |
|                                       | -<br>(170)             |                |                |                |                |                |

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

31

model 555



# luffing jib load charts

32

## Liftcrane Luffing Jib Capacities - Series 2

### Luffing Jib No. 155 on Boom No. 84

44 680 kg (98,500 lb) Counterweight 19 960 kg (44,000 lb) Carbody Counterweight

360° Rating

kg (lb) x 1 000

### 75° Boom Angle

| Luffing Jib Length 18,3 m (60 ft) | Boom<br>m (ft)         | 18,3<br>(60)   | 24,4<br>(80)   | 30,5<br>(100)  | 42,7<br>(140)  | 51,8<br>(170) | Luffing Jib Length 27,4 m (90 ft) | Boom<br>m (ft)         | 18,3<br>(60)   | 24,4<br>(80)   | 30,5<br>(100)  | 42,7<br>(140)  | 51,8<br>(170) |
|-----------------------------------|------------------------|----------------|----------------|----------------|----------------|---------------|-----------------------------------|------------------------|----------------|----------------|----------------|----------------|---------------|
|                                   | Radius<br>14,0<br>(50) | -<br>(64.9)    |                |                |                |               |                                   | Radius<br>14,0<br>(50) |                |                |                |                |               |
|                                   | 18,0<br>(60)           | 23,8<br>(51.5) | 23,3<br>(50.3) | -<br>(48.8)    |                |               |                                   | 18,0<br>(60)           |                |                |                |                |               |
|                                   | 20,0<br>(70)           | 20,8<br>(42.5) | 20,3<br>(41.4) | 19,7<br>(40.2) | -<br>(37.3)    |               |                                   | 20,0<br>(70)           | 20,5<br>(41.7) | -<br>(40.6)    |                |                |               |
|                                   | 24,0<br>(80)           | 16,5<br>(35.8) | 16,2<br>(35.0) | 15,7<br>(34.0) | 14,5<br>(31.5) | (29.3)        |                                   | 24,0<br>(80)           | 16,2<br>(35.2) | 15,8<br>(34.2) | 15,3<br>(33.1) |                |               |
|                                   | 26,0<br>(90)           |                |                | 14,1<br>(29.1) | 13,1<br>(27.1) | -<br>(25.2)   |                                   | 26,0<br>(90)           | 14,7<br>(30.3) | 14,3<br>(29.4) | 13,8<br>(28.4) | 12,7<br>(26.1) |               |
|                                   | 30,0<br>(100)          |                |                |                | 10,8<br>(23.5) | -<br>(21.9)   |                                   | 30,0<br>(100)          | 12,2<br>(26.4) | 11,8<br>(25.7) | 11,4<br>(24.8) | 10,5<br>(22.7) |               |
|                                   | 32,0<br>(110)          |                |                |                |                |               |                                   | 32,0<br>(110)          | 11,2<br>(23.2) | 10,8<br>(22.6) | 10,5<br>(21.8) | 9,6<br>(20.0)  |               |
|                                   | 36,0<br>(120)          |                |                |                |                |               |                                   | 36,0<br>(120)          |                |                | 8,9<br>(19.3)  | 8,2<br>(17.7)  |               |
|                                   | 38,0<br>(130)          |                |                |                |                |               |                                   | 38,0<br>(130)          |                |                |                | 7,6<br>(15.8)  |               |
| 40,0<br>(135)                     |                        |                |                |                |                | 40,0<br>(135) |                                   |                        |                |                |                |                |               |

| Boom<br>m (ft)                           |               | 18,3<br>(60)   | 24,4<br>(80)   | 30,5<br>(100)  | 42,7<br>(140) | 51,8<br>(170) | Boom<br>m (ft) |  | 18,3<br>(60)   | 24,4<br>(80)  | 30,5<br>(100) | 42,7<br>(140) | 51,8<br>(170) |
|------------------------------------------|---------------|----------------|----------------|----------------|---------------|---------------|----------------|--|----------------|---------------|---------------|---------------|---------------|
| Luffing Jib Length<br>36,6 m<br>(120 ft) | Radius        |                |                |                |               |               | Radius         |  |                |               |               |               |               |
|                                          | -<br>(85)     | -              | -              |                |               |               | -<br>(85)      |  |                |               |               |               |               |
|                                          | 26,0<br>(90)  | 14,3<br>(29.5) | 13,9<br>(28.6) | -<br>(27.6)    |               |               | 26,0<br>(90)   |  |                |               |               |               |               |
|                                          | 30,0<br>(100) | 11,9<br>(25.7) | 11,5<br>(24.9) | 11,0<br>(23.9) | -<br>(21.8)   |               | 30,0<br>(100)  |  | 10,0<br>(21.7) |               |               |               |               |
|                                          | 32,0<br>(110) | 10,9<br>(22.6) | 10,5<br>(21.9) | 10,1<br>(21.0) | 9,2<br>(19.1) |               | 32,0<br>(110)  |  | 9,3<br>(19.5)  | 9,7<br>(20.5) | -<br>(20.0)   |               |               |
|                                          | 36,0<br>(120) | 9,3<br>(20.1)  | 9,0<br>(19.4)  | 8,6<br>(18.6)  | 7,8<br>(16.9) |               | 36,0<br>(120)  |  | 8,0<br>(17.4)  | 8,5<br>(18.4) | 8,1<br>(17.6) |               |               |
|                                          | 38,0<br>(130) | 8,6<br>(17.9)  | 8,3<br>(17.3)  | 8,0<br>(16.6)  | 7,2<br>(15.0) |               | 38,0<br>(130)  |  | 7,5<br>(15.6)  | 7,9<br>(16.4) | 7,5<br>(15.6) |               |               |
|                                          | 42,0<br>(140) | 7,4<br>(16.0)  | 7,2<br>(15.5)  | 6,9<br>(14.9)  | 6,2<br>(13.4) |               | 42,0<br>(140)  |  | 6,5<br>(14.0)  | 6,8<br>(14.6) | 6,4<br>(13.9) |               |               |
|                                          | 48,0<br>(160) |                |                |                | 5,0<br>(10.8) |               | 48,0<br>(160)  |  | 5,2<br>(11.2)  | 5,4<br>(11.8) | 5,2<br>(11.2) |               |               |
|                                          | 54,0<br>(180) |                |                |                |               |               | 54,0<br>(180)  |  | 4,2<br>(9.2)   | 4,4<br>(9.6)  | 4,2<br>(9.1)  |               |               |
| 58,0<br>(190)                            |               |                |                |                |               | 58,0<br>(190) |                |  |                | -<br>(8.2)    |               |               |               |

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

# Luffing jib load charts

## Liftcrane Luffing Jib Capacities - Series 2 Luffing Jib No. 155 on Boom No. 84

44 680 kg (98,500 lb) Counterweight 19 960 kg (44,000 lb) Carbody Counterweight

360° Rating

kg (lb) x 1 000

65° Boom Angle

33

| Boom<br>m (ft) | 18,3<br>(60)   | 24,4<br>(80)   | 30,5<br>(100)  | 42,7<br>(140) | 51,8<br>(170) |
|----------------|----------------|----------------|----------------|---------------|---------------|
| Radius         |                |                |                |               |               |
| 20,0<br>(70)   | -<br>(40.1)    |                |                |               |               |
| 24,0<br>(80)   | 15,6<br>(33.9) | -<br>(32.3)    |                |               |               |
| 26,0<br>(90)   | 14,1<br>(29.0) | 13,5<br>(27.8) | 12,7<br>(26.2) |               |               |
| 30,0<br>(100)  |                |                | 10,6<br>(22.9) |               |               |
| 32,0<br>(110)  |                |                | 9,7<br>-       | 8,3<br>(17.2) |               |
| 36,0<br>(120)  |                |                |                | 7,0<br>(15.2) | -<br>(12.9)   |
| 38,0<br>(130)  |                |                |                | 6,5<br>-      | -<br>(11.5)   |
| 42,0<br>(140)  |                |                |                |               |               |
| 44,0<br>(150)  |                |                |                |               |               |
| 46,0<br>(155)  |                |                |                |               |               |

| Boom<br>m (ft) | 18,3<br>(60)   | 24,4<br>(80)   | 30,5<br>(100) | 42,7<br>(140) | 51,8<br>(170) |
|----------------|----------------|----------------|---------------|---------------|---------------|
| Radius         |                |                |               |               |               |
| 20,0<br>(70)   |                |                |               |               |               |
| 24,0<br>(80)   |                |                |               |               |               |
| 26,0<br>(90)   | -<br>(28.3)    |                |               |               |               |
| 30,0<br>(100)  | 11,4<br>(24.7) | 10,8<br>(23.4) |               |               |               |
| 32,0<br>(110)  | 10,4<br>(21.7) | 9,9<br>(20.6)  | 9,2<br>(19.3) |               |               |
| 36,0<br>(120)  | 8,9<br>(19.2)  | 8,4<br>(18.3)  | 7,9<br>(17.1) | -<br>(14.2)   |               |
| 38,0<br>(130)  |                | 7,8<br>-       | 7,3<br>(15.2) | 6,1<br>(12.6) |               |
| 42,0<br>(140)  |                |                |               | 5,2<br>(11.3) |               |
| 44,0<br>(150)  |                |                |               | 4,8<br>(10.1) |               |
| 46,0<br>(155)  |                |                |               | 4,5<br>(9.4)  |               |

| Boom<br>m (ft) | 18,3<br>(60)   | 24,4<br>(80)  | 30,5<br>(100) | 42,7<br>(140) | 51,8<br>(170) |
|----------------|----------------|---------------|---------------|---------------|---------------|
| Radius         |                |               |               |               |               |
| 32,0<br>(105)  | 10,1<br>(22.3) |               |               |               |               |
| 34,0<br>(115)  | 9,3<br>(19.7)  | -<br>(18.5)   |               |               |               |
| 38,0<br>(130)  | 7,9<br>(16.6)  | 7,4<br>(15.5) | -<br>(14.3)   |               |               |
| 42,0<br>(140)  | 6,8<br>(14.8)  | 6,4<br>(13.9) | 5,9<br>(12.8) |               |               |
| 44,0<br>(150)  | 6,4<br>(13.3)  | 6,0<br>(12.5) | 5,5<br>(11.5) |               |               |
| 48,0<br>(160)  |                |               | 4,8<br>(10.3) |               |               |
| 50,0<br>(170)  |                |               | 4,4<br>-      |               |               |
| 54,0<br>(180)  |                |               |               |               |               |
| 60,0<br>(200)  |                |               |               |               |               |
| 62,0<br>(205)  |                |               |               |               |               |

| Boom<br>m (ft) | 18,3<br>(60)  | 24,4<br>(80)  | 30,5<br>(100) | 42,7<br>(140) | 51,8<br>(170) |
|----------------|---------------|---------------|---------------|---------------|---------------|
| Radius         |               |               |               |               |               |
| 32,0<br>(105)  |               |               |               |               |               |
| 34,0<br>(115)  |               |               |               |               |               |
| 38,0<br>(130)  | -<br>(15.6)   |               |               |               |               |
| 42,0<br>(140)  | 6,4<br>(13.9) | -<br>(12.8)   |               |               |               |
| 44,0<br>(150)  | 5,9<br>(12.4) | 5,5<br>(11.5) | -<br>(10.4)   |               |               |
| 48,0<br>(160)  | 5,2<br>(11.2) | 4,7<br>(10.3) | 4,3<br>(9.3)  |               |               |
| 50,0<br>(170)  | 4,8<br>(10.0) | 4,4<br>(9.2)  | 4,0<br>(8.3)  |               |               |
| 54,0<br>(180)  | 4,2<br>(9.0)  | 3,8<br>(8.3)  | 3,4<br>(7.4)  |               |               |
| 60,0<br>(200)  |               | 3,1<br>(6.6)  | 2,7<br>(5.9)  |               |               |
| 62,0<br>(205)  |               |               | 2,5<br>(5.5)  |               |               |

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

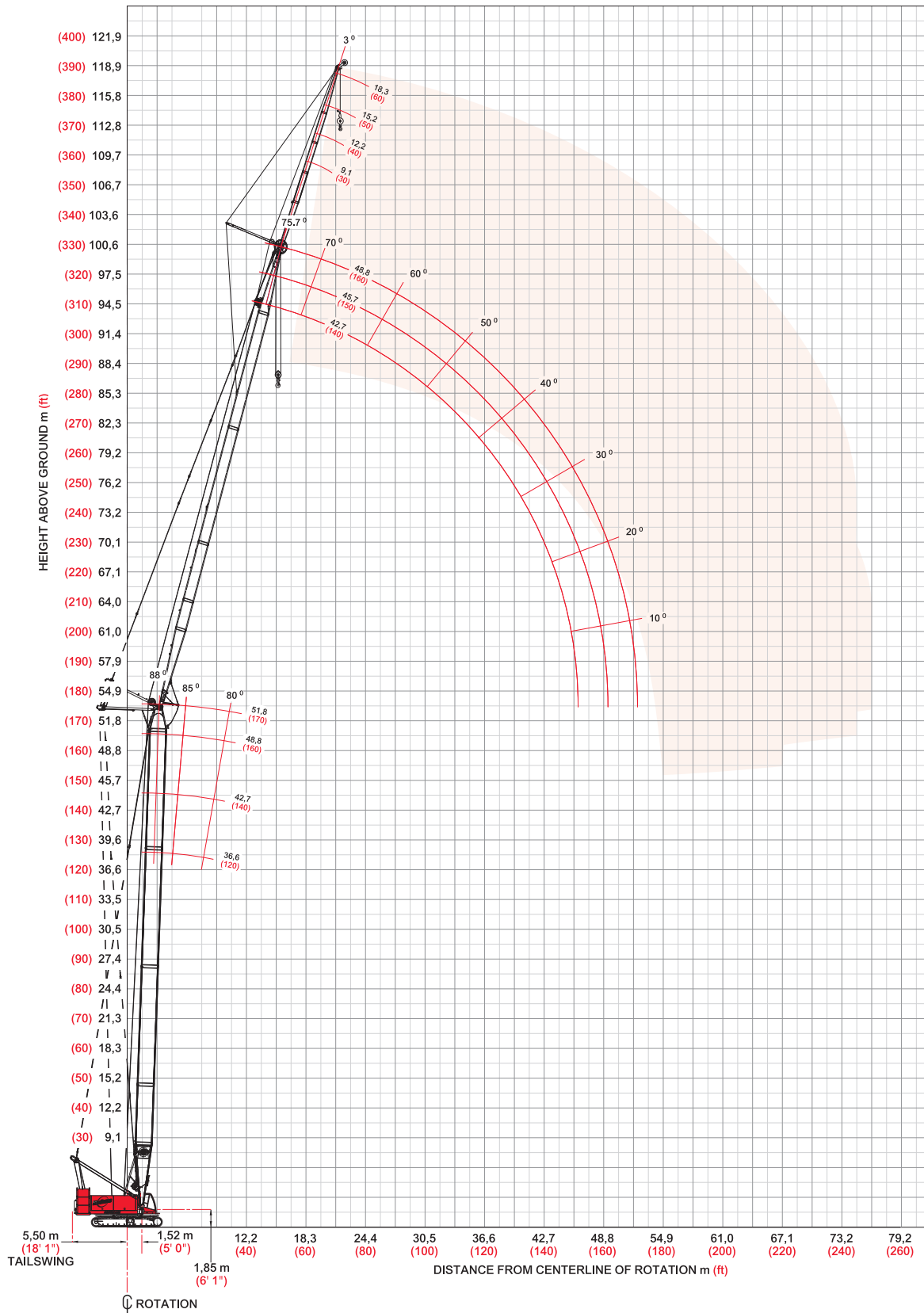
model 555



# fixed jib on luffing jib range diagram

No. 138A Fixed Jib on No. 155 Luffing Jib on No. 84 Main Boom

34



# fixed jib on luffing jib load charts

## Liftcrane Fixed Jib on Luffing Capacities - Series 2

Fixed Jib No. 138A at 3 Degree Angle on Luffing Jib No. 155 on Boom No. 84

44 680 kg (98,500 lb) Upperworks Counterweight 19 960 kg (44,000 lb) Carbody Counterweight

360° Rating

kg (lb) x 1 000

88° Boom Angle

| Luffing Jib<br>m (ft)          |               |                |                | 42,7<br>(140)  |                |               | 45,7<br>(150) |               |               | 48,8<br>(160) |               |               |
|--------------------------------|---------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Boom<br>m (ft)                 |               |                |                | 36,6<br>(120)  | 42,7<br>(140)  | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) |
| Radius                         |               |                |                |                |                |               |               |               |               |               |               |               |
| Fixed Jib Length 9,1 m (30 ft) | 16,8<br>(55)  | 12,0<br>(26.5) | 11,3<br>(25.0) |                |                |               |               |               |               |               |               |               |
|                                | 20,0<br>(70)  | 11,7<br>(25.8) | 11,0<br>(24.2) | 10,1<br>(22.3) | 10,6<br>(23.2) | 9,9<br>(21.8) | 9,2<br>(20.1) | 9,5<br>(20.7) | 8,9<br>(19.5) | 8,3<br>(18.2) |               |               |
|                                | 24,0<br>(80)  | 11,1<br>(24.3) | 10,7<br>(23.7) | 9,8<br>(21.7)  | 10,2<br>(22.5) | 9,6<br>(21.3) | 8,9<br>(19.7) | 9,1<br>(20.0) | 8,6<br>(18.9) | 8,0<br>(17.7) |               |               |
|                                | 30,0<br>(100) | 9,4<br>(20.6)  | 9,4<br>(20.6)  | 8,9<br>(19.4)  | 9,2<br>(20.2)  | 9,1<br>(20.1) | 8,4<br>(18.4) | 8,6<br>(18.9) | 8,1<br>(17.9) | 7,6<br>(16.7) |               |               |
|                                | 36,0<br>(120) | 8,2<br>(17.9)  | 8,2<br>(17.9)  | 7,5<br>(16.5)  | 8,0<br>(17.6)  | 8,0<br>(17.6) | 7,2<br>(15.8) | 7,9<br>(17.3) | 7,7<br>(16.8) | 6,8<br>(15.0) |               |               |
|                                | 42,0<br>(140) | 7,2<br>(15.8)  | 7,1<br>(15.4)  | 6,3<br>(13.7)  | 7,1<br>(15.6)  | 6,9<br>(15.1) | 6,1<br>(13.4) | 7,0<br>(15.4) | 6,6<br>(14.5) | 5,9<br>(12.9) |               |               |
|                                | 48,0<br>(160) | 6,4<br>(14.0)  | 5,8<br>(12.6)  | 5,2<br>(11.3)  | 6,4<br>(13.8)  | 5,8<br>(12.6) | 5,1<br>(11.2) | 6,3<br>(13.6) | 5,6<br>(12.3) | 5,0<br>(10.9) |               |               |
|                                | 54,0<br>(180) | 4,3<br>(7.9)   | 4,6<br>(8.7)   | 4,3<br>(9.4)   | 5,2<br>(11.1)  | 4,8<br>(10.5) | 4,3<br>(9.4)  | 5,1<br>(11.1) | 4,8<br>(10.4) | 4,2<br>(9.2)  |               |               |
|                                | 56,0<br>(190) |                |                |                | 4,4<br>(6.8)   | 4,5<br>(7.5)  | 4,1<br>(8.2)  | 4,8<br>(9.6)  | 4,5<br>(9.6)  | 4,0<br>(8.5)  |               |               |
|                                | 60,0<br>(200) |                |                |                |                |               |               | 3,1<br>(5.6)  | 3,5<br>(6.3)  | 3,5<br>(6.9)  |               |               |

| Fixed Jib Length 18,3 m (60 ft) | Luffing Jib<br>m (ft) |               |               | 42,7<br>(140) |               |               | 45,7<br>(150) |               |               | 48,8<br>(160) |  |  |
|---------------------------------|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|--|
|                                 | Boom<br>m (ft)        | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) |  |  |
|                                 | Radius                |               |               |               |               |               |               |               |               |               |  |  |
|                                 | –<br>(65)             | –<br>(14.6)   | –<br>(14.2)   | –<br>(13.8)   | –<br>(14.0)   |               |               |               |               |               |  |  |
|                                 | 24,0<br>(80)          | 6,2<br>(13.8) | 6,1<br>(13.5) | 5,9<br>(13.0) | 6,0<br>(13.2) | 5,8<br>(12.9) | 5,6<br>(12.5) | 5,7<br>(12.6) | 5,5<br>(12.2) | 5,3<br>(11.7) |  |  |
|                                 | 30,0<br>(100)         | 5,7<br>(12.7) | 5,6<br>(12.4) | 5,5<br>(12.1) | 5,5<br>(12.2) | 5,4<br>(12.0) | 5,2<br>(11.6) | 5,3<br>(11.7) | 5,2<br>(11.4) | 5,0<br>(11.0) |  |  |
|                                 | 36,0<br>(120)         | 5,3<br>(11.8) | 5,2<br>(11.6) | 5,1<br>(11.3) | 5,2<br>(11.4) | 5,1<br>(11.2) | 4,9<br>(10.9) | 5,0<br>(11.0) | 4,8<br>(10.7) | 4,7<br>(10.4) |  |  |
|                                 | 42,0<br>(140)         | 4,8<br>(10.6) | 4,9<br>(10.7) | 4,8<br>(10.7) | 4,8<br>(10.4) | 4,8<br>(10.5) | 4,7<br>(10.3) | 4,7<br>(10.3) | 4,6<br>(10.1) | 4,4<br>(9.8)  |  |  |
|                                 | 48,0<br>(160)         | 4,3<br>(9.4)  | 4,3<br>(9.4)  | 4,3<br>(9.4)  | 4,2<br>(9.2)  | 4,2<br>(9.3)  | 4,2<br>(9.3)  | 4,2<br>(9.1)  | 4,1<br>(9.1)  | 4,2<br>(9.1)  |  |  |
|                                 | 54,0<br>(180)         | 3,8<br>(8.4)  | 3,8<br>(8.4)  | 3,8<br>(8.4)  | 3,8<br>(8.3)  | 3,8<br>(8.3)  | 3,8<br>(8.3)  | 3,7<br>(8.2)  | 3,7<br>(8.2)  | 3,7<br>(8.1)  |  |  |
| 60,0<br>(200)                   | 3,5<br>(7.6)          | 3,5<br>(7.7)  | 3,3<br>(7.1)  | 3,4<br>(7.5)  | 3,4<br>(7.5)  | 3,3<br>(7.1)  | 3,4<br>(7.4)  | 3,4<br>(7.4)  | 3,2<br>(7.0)  |               |  |  |
| 68,0<br>(220)                   |                       |               |               | –<br>(4.9)    | –<br>(5.5)    | –<br>(6.0)    | 2,8<br>(6.8)  | 2,9<br>(6.7)  | 2,6<br>(6.0)  |               |  |  |
| 70,0<br>(230)                   |                       |               |               |               |               |               |               | 2,1<br>(4.5)  | 2,3<br>(5.0)  |               |  |  |

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

35

model 555



# fixed jib on luffing jib load charts

36

## Liftcrane Fixed Jib on Luffing Capacities - Series 2

Fixed Jib No. 138A at 3 Degree Angle on Luffing Jib No. 155 on Boom No. 84

44 680 kg (98,500 lb) Upperworks Counterweight 19 960 kg (44,000 lb) Carbody Counterweight

360° Rating

kg (lb) x 1 000

85° Boom Angle

| Luffing Jib<br>m (ft) |  |  |  | 42,7<br>(140)  |                |               | 45,7<br>(150)  |               |               | 48,8<br>(160) |               |               |
|-----------------------|--|--|--|----------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|
| Boom<br>m (ft)        |  |  |  | 36,6<br>(120)  | 42,7<br>(140)  | 48,8<br>(160) | 36,6<br>(120)  | 42,7<br>(140) | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) |
| Radius                |  |  |  |                |                |               |                |               |               |               |               |               |
| 20,0<br>(70)          |  |  |  | -              |                |               |                |               |               |               |               |               |
| 24,0<br>(80)          |  |  |  | 11,5<br>(25.3) | 10,7<br>(23.7) | 9,9<br>(21.9) | 10,2<br>(22.6) | 9,6<br>(21.3) | -             | 9,1<br>(20.0) | -             | -             |
| 26,0<br>(90)          |  |  |  | 11,1<br>(23.7) | 10,6<br>(23.3) | 9,8<br>(21.5) | 10,1<br>(22.0) | 9,5<br>(20.8) | 8,8<br>(19.4) | 8,9<br>(19.5) | 8,4<br>(18.5) | 7,9<br>(17.3) |
| 30,0<br>(100)         |  |  |  | 10,0<br>(21.8) | 10,0<br>(21.9) | 9,6<br>(21.1) | 9,7<br>(21.3)  | 9,2<br>(20.4) | 8,6<br>(18.9) | 8,6<br>(19.0) | 8,1<br>(18.0) | 7,6<br>(16.9) |
| 36,0<br>(120)         |  |  |  | 8,6<br>(18.8)  | 8,6<br>(18.9)  | 8,7<br>(19.0) | 8,4<br>(18.5)  | 8,5<br>(18.6) | 8,2<br>(18.2) | 8,2<br>(18.1) | 7,8<br>(17.3) | 7,3<br>(16.2) |
| 42,0<br>(140)         |  |  |  | 7,5<br>(16.2)  | 7,4<br>(16.0)  | 7,2<br>(15.7) | 7,4<br>(16.1)  | 7,3<br>(15.8) | 7,2<br>(15.6) | 7,3<br>(15.8) | 7,2<br>(15.5) | 7,0<br>(15.2) |
| 48,0<br>(160)         |  |  |  | 6,1<br>(13.2)  | 6,0<br>(13.0)  | 5,9<br>(12.8) | 6,0<br>(13.1)  | 5,9<br>(12.9) | 5,8<br>(12.6) | 5,9<br>(12.8) | 5,8<br>(12.6) | 5,7<br>(12.3) |
| 54,0<br>(180)         |  |  |  | 5,0<br>(10.8)  | 4,9<br>(10.7)  | 4,8<br>(10.5) | 5,0<br>(10.7)  | 4,9<br>(10.5) | 4,8<br>(10.4) | 4,8<br>(10.4) | 4,8<br>(10.3) | 4,7<br>(10.1) |
| 60,0<br>(200)         |  |  |  |                |                |               |                | 3,7<br>(5.8)  | 3,8<br>(7.9)  | 4,0<br>(8.6)  | 3,9<br>(8.4)  | 3,8<br>(8.2)  |
| 64,0<br>(210)         |  |  |  |                |                |               |                |               |               |               | 2,1<br>(4.7)  | 3,0<br>(6.7)  |

| Luffing Jib<br>m (ft) |  |  |  | 42,7<br>(140) |               |               | 45,7<br>(150) |               |               | 48,8<br>(160) |               |               |
|-----------------------|--|--|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Boom<br>m (ft)        |  |  |  | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) |
| Radius                |  |  |  |               |               |               |               |               |               |               |               |               |
| 24,0<br>(80)          |  |  |  | -             |               |               |               |               |               |               |               |               |
| 26,0<br>(90)          |  |  |  | 6,2<br>(13.4) | 6,0<br>(13.2) | 5,8<br>(12.8) | 5,9<br>(12.9) | 5,8<br>(12.6) | -             | 5,6<br>(12.2) | -             | -             |
| 30,0<br>(100)         |  |  |  | 5,9<br>(12.9) | 5,7<br>(12.7) | 5,6<br>(12.4) | 5,6<br>(12.4) | 5,5<br>(12.2) | 5,3<br>(11.8) | 5,3<br>(11.8) | 5,2<br>(11.5) | 5,0<br>(11.1) |
| 36,0<br>(120)         |  |  |  | 5,4<br>(12.0) | 5,3<br>(11.8) | 5,2<br>(11.6) | 5,2<br>(11.6) | 5,2<br>(11.4) | 5,0<br>(11.1) | 5,0<br>(11.1) | 4,9<br>(10.9) | 4,8<br>(10.5) |
| 42,0<br>(140)         |  |  |  | 5,1<br>(11.1) | 5,0<br>(11.1) | 4,9<br>(10.9) | 4,9<br>(10.9) | 4,9<br>(10.8) | 4,8<br>(10.5) | 4,7<br>(10.5) | 4,6<br>(10.3) | 4,5<br>(10.0) |
| 48,0<br>(160)         |  |  |  | 4,5<br>(9.8)  | 4,5<br>(9.9)  | 4,6<br>(10.0) | 4,4<br>(9.6)  | 4,4<br>(9.7)  | 4,5<br>(9.8)  | 4,3<br>(9.5)  | 4,4<br>(9.6)  | 4,3<br>(9.6)  |
| 54,0<br>(180)         |  |  |  | 4,0<br>(8.7)  | 4,0<br>(8.8)  | 4,1<br>(8.9)  | 3,9<br>(8.6)  | 3,9<br>(8.7)  | 4,0<br>(8.8)  | 3,9<br>(8.5)  | 3,9<br>(8.5)  | 3,9<br>(8.6)  |
| 60,0<br>(200)         |  |  |  | 3,6<br>(7.9)  | 3,6<br>(8.0)  | 3,6<br>(8.0)  | 3,5<br>(7.8)  | 3,5<br>(7.8)  | 3,6<br>(7.9)  | 3,5<br>(7.7)  | 3,5<br>(7.7)  | 3,5<br>(7.8)  |
| 68,0<br>(220)         |  |  |  |               | -             | -             | 2,9<br>(7.1)  | 3,2<br>(7.2)  | 3,2<br>(7.2)  | 3,1<br>(7.0)  | 3,1<br>(7.1)  | 3,1<br>(7.1)  |
| 72,0<br>(240)         |  |  |  |               |               |               |               |               |               |               | 3,0<br>(7.1)  | 2,7<br>(4.9)  |

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

Courtesy of Crane.Market

# fixed jib on luffing jib load charts

## Liftcrane Fixed Jib on Luffing Capacities - Series 2

### Fixed Jib No. 138A at 3 Degree Angle on Luffing Jib No. 155 on Boom No. 84

44 680 kg (98,500 lb) Upperworks Counterweight 19 960 kg (44,000 lb) Carbody Counterweight

360° Rating

kg (lb) x 1 000

80° Boom Angle

| Luffing Jib<br>m (ft)          |               |                |               | 42,7<br>(140) |               |               | 45,7<br>(150) |               |               | 48,8<br>(160) |               |               |
|--------------------------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Boom<br>m (ft)                 |               |                |               | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) |
| Radius                         |               |                |               |               |               |               |               |               |               |               |               |               |
| Fixed Jib Length 9,1 m (30 ft) | 28,0<br>(95)  | -<br>(23.7)    |               |               |               |               |               |               |               |               |               |               |
|                                | 32,0<br>(105) | 10,1<br>(22.4) | 9,8<br>(21.7) | 9,2<br>(20.3) |               |               | 9,4<br>(20.8) | 8,8<br>(19.6) | 8,2<br>(18.1) | 8,3<br>(18.3) | 7,8<br>(17.3) |               |
|                                | 36,0<br>(120) | 8,5<br>(18.5)  | 8,2<br>(17.9) | 7,9<br>(17.2) |               |               | 8,5<br>(18.4) | 8,2<br>(17.7) | 7,9<br>(17.0) | 8,1<br>(17.8) | 7,7<br>(16.9) | 7,2<br>(15.9) |
|                                | 42,0<br>(140) | 6,8<br>(14.7)  | 6,5<br>(14.2) | 6,3<br>(13.6) |               |               | 6,7<br>(14.6) | 6,5<br>(14.0) | 6,2<br>(13.4) | 6,6<br>(14.2) | 6,3<br>(13.7) | 6,1<br>(13.1) |
|                                | 48,0<br>(160) | 5,5<br>(11.9)  | 5,3<br>(11.4) | 5,0<br>(10.9) |               |               | 5,4<br>(11.8) | 5,2<br>(11.3) | 5,0<br>(10.8) | 5,3<br>(11.4) | 5,1<br>(10.9) | 4,8<br>(10.4) |
|                                | 54,0<br>(180) | 4,5<br>(9.7)   | 4,3<br>(9.3)  | 4,1<br>(8.9)  |               |               | 4,4<br>(9.6)  | 4,3<br>(9.2)  | 4,0<br>(8.7)  | 4,3<br>(9.3)  | 4,1<br>(8.8)  | 3,9<br>(8.4)  |
|                                | 60,0<br>(200) |                | 3,5<br>(7.6)  | 3,3<br>(7.2)  |               |               | 3,6<br>(7.8)  | 3,5<br>(7.5)  | 3,3<br>(7.1)  | 3,5<br>(7.5)  | 3,3<br>(7.2)  | 3,1<br>(6.8)  |
|                                | 64,0<br>(210) |                |               |               |               |               |               | 3,0<br>(6.7)  | 2,9<br>(6.4)  | 3,0<br>(6.8)  | 2,9<br>(6.4)  | 2,7<br>(6.1)  |
|                                | 68,0<br>(220) |                |               |               |               |               |               |               |               |               | -<br>(5.7)    | 2,3<br>(5.4)  |
|                                | -<br>(225)    |                |               |               |               |               |               |               |               |               |               | -<br>(5.1)    |

| Luffing Jib<br>m (ft)           |               |               |               | 42,7<br>(140) |               |               | 45,7<br>(150) |               |               | 48,8<br>(160) |               |               |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Boom<br>m (ft)                  |               |               |               | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) | 36,6<br>(120) | 42,7<br>(140) | 48,8<br>(160) |
| Radius                          |               |               |               |               |               |               |               |               |               |               |               |               |
| Fixed Jib Length 18,3 m (60 ft) | -<br>(110)    | -<br>(12.6)   | -<br>(12.4)   |               |               |               | -<br>(12.1)   |               |               |               |               |               |
|                                 | 36,0<br>(120) | 5,5<br>(12.2) | 5,4<br>(12.0) | 5,3<br>(11.8) |               |               | 5,3<br>(11.7) | 5,2<br>(11.5) | -<br>(11.2)   | 5,0<br>(11.1) | -<br>(10.8)   | -<br>(10.5)   |
|                                 | 42,0<br>(140) | 5,2<br>(11.5) | 5,1<br>(11.4) | 5,0<br>(11.2) |               |               | 5,0<br>(11.1) | 4,9<br>(10.9) | 4,8<br>(10.7) | 4,8<br>(10.6) | 4,7<br>(10.4) | 4,6<br>(10.1) |
|                                 | 48,0<br>(160) | 4,8<br>(10.5) | 4,9<br>(10.7) | 4,8<br>(10.6) |               |               | 4,7<br>(10.3) | 4,7<br>(10.4) | 4,6<br>(10.2) | 4,6<br>(10.1) | 4,5<br>(9.9)  | 4,4<br>(9.7)  |
|                                 | 54,0<br>(180) | 4,2<br>(9.3)  | 4,3<br>(9.5)  | 4,2<br>(9.2)  |               |               | 4,2<br>(9.2)  | 4,3<br>(9.4)  | 4,1<br>(9.0)  | 4,1<br>(9.0)  | 4,2<br>(9.1)  | 4,0<br>(8.6)  |
|                                 | 60,0<br>(200) | 3,8<br>(8.4)  | 3,7<br>(8.0)  | 3,5<br>(7.5)  |               |               | 3,7<br>(8.2)  | 3,6<br>(7.8)  | 3,4<br>(7.4)  | 3,7<br>(7.9)  | 3,4<br>(7.5)  | 3,2<br>(7.0)  |
|                                 | 68,0<br>(220) | 3,0<br>(6.9)  | 2,9<br>(6.6)  | 2,7<br>(6.2)  |               |               | 3,0<br>(6.8)  | 2,8<br>(6.4)  | 2,6<br>(6.1)  | 2,8<br>(6.5)  | 2,6<br>(6.1)  | 2,5<br>(5.7)  |
|                                 | 70,0<br>(230) |               | 2,6<br>(5.9)  | 2,5<br>(5.6)  |               |               | 2,8<br>(6.2)  | 2,6<br>(5.8)  | 2,5<br>(5.5)  | 2,6<br>(5.9)  | 2,5<br>(5.5)  | 2,3<br>(5.2)  |
|                                 | 72,0<br>(240) |               |               |               |               |               |               | 2,4<br>(5.3)  | 2,3<br>(4.9)  | 2,5<br>(5.3)  | 2,3<br>(5.0)  | 2,1<br>(4.6)  |
|                                 | 76,0<br>(250) |               |               |               |               |               |               |               |               |               | 2,0<br>(4.4)  | 1,8<br>(4.1)  |

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

37

model 555



**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 — for every one of the tens of thousands of Manitowoc Crane Group cranes currently in use throughout the world.

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

That's **Crane CARE**.

### Service Training

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

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

- **Basic** – Provides technicians with the basic skills required in our Level I and II classes covering hydraulic and electrical theory and schematics, pump, motor, control, and LMI operation, and the use of meters and gauges.
- **Level 1** – This model-specific class covers theory and offers hands-on training and trouble shooting for all crane systems.
- **Level 2** – This model-specific class provides in depth coverage of all crane systems and components, and advanced troubleshooting of simulated faults. (Requires Level 1.)
- **Level 3/Master** – Covering all EPIC models and the 4100W, this class stresses high level system knowledge and trouble shooting of simulated faults. (Requires Level 2.)

To register for a training course or to receive more information - Phone 717-593-5316 or click on Training at our website, [www.cranecare.com](http://www.cranecare.com)

### 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

Provides all the parts required by Manitowoc's Preventative Maintenance Checklist.

#### Hydraulic Filter Kit

Consists of the following:

- Filter Element - No substitutions allowed

#### Cummins Model QSL T3 Diesel Service Interval Kits

##### 200 Hour Kit

Consists of the following:

##### Engine

- Air Cleaner - Element
- Oil Filter
- Water Filter
- Fuel Filter

##### 1,000 Hour Kit

Consists of the following:

##### Engine

- Air Cleaner - Element
- Oil Filter
- Water Filter
- Fuel Filter

##### Hydraulic

- Filter Element

##### 2,000 Hour Kit

Consists of the following:

##### Engine

- Air Cleaner - Element
- Oil Filter
- Water Filter
- Fuel Filter
- Belt, Alternator - set of two
- Belt, Water Pump

##### Hydraulic

- Filter Element - No substitutions allowed
- Filter - Hydraulic In-tank Suction
- Seal Kit

#### Hydraulic Test Kit

Protect your investment by demanding Genuine Manitowoc Parts Service Kits. The Hydraulic Service Kit consist of the following:

- All hydraulic fittings to access all pressures and flows
- Hydraulic flow meters and pressure gauges to record hydraulic data.
- Electrical "Break out" harnesses to access voltages on all electrical circuits on all machines.
- Fluke® Digital volt ohm meter, as used in all Manitowoc service literature.

#### Hydraulic Test Kit with case

The above kit (Part No. 4299791-6) plus a custom heavy-duty carrying case.

#### U.S. Standard Tools Kit

All standard tools needed to properly maintain and service your crane. (Does not include torque wrench.)

### 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.manitowoccranegroup.com](http://www.manitowoccranegroup.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.manitowoccranegroup.com](http://www.manitowoccranegroup.com)

### Technical Documentation

Manitowoc Crane CARE has the industry's most extensive documentation, the easiest to understand, available in many languages and formats that include print, web, CD and video.

The following manuals are included with each crane cab or attachment if applicable:

Operator Information Manual

- Capacity Charts (Special Paper)
- Operator's Manual
- Maintenance Checks and Lubrication
- RCL/LMI Operation
- Schematics
- Service Manual

Additional copies of the technical manuals are available for purchase. Please contact your Manitowoc Crane CARE distributor or download the "Master Publication Product List" part numbers located on the website: [http://www.cranecare.com/Home/inside\\_TechDoc.asp](http://www.cranecare.com/Home/inside_TechDoc.asp)

### 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.





## Americas Region

### Manitowoc

Telephone Number: + 1 920 684 6621  
 Fax Number: + 1 920 683 6278  
 Address: 2401 S. 30th Street,  
 Manitowoc, WI 54220 USA

### Grove, National, Manlift, Potain

Telephone Number: + 1 717 597 8121  
 Fax Number: + 1 717 593 5929  
 Address: 1565 Buchanan Trail East,  
 Shady Grove, PA 17256 USA

### Manitowoc Crane Group - Brazil

Telephone Number: (55) 11 3841 2741  
 Fax Number: (55) 11 3841 2740  
 Address: Edificio: Itaim Office Tower  
 Rua Gomes de Carvalho,  
 1581 - 2 andar cj 205 / 206  
 Vila Olimpia - SP - Cep: 04547 - 006 Brasil

### Grove - Mexico

Fax Number: (5281) 8124 0128  
 Fax Number: (5281) 8124 0129  
 Address: Miravalle Center, piso PB, Suite 342  
 Calz San Pedro 250 Nte. Col. Miravalle C.P.  
 64660 Monterrey, Nuevo Leon, Mexico

## EMEA Region

### Grove RT

Telephone number: + 44 191 565 6281  
 Fax number: + 44 191 515 7475  
 Address: Akeler House, 1 Emperor Way  
 Doxford International Business park  
 Sunderland, England SR3 3XR

### Grove GMK

Telephone Number: + 49 4421 294 454  
 Fax number: + 49 4421 294 244  
 Address: Industriegelände West  
 26389 Wilhelmshaven  
 Postfach 1853, Germany

### Potain & Manitowoc

Telephone number: + 33 472 182 164  
 Fax number: + 33 472 182 109  
 Address: 18 Chemin de Charbonnières  
 69130 Ecully, France

### Manlift - France

Telephone Number: +33 (0) 553 84 85 86  
 Fax number: +33 (0) 553 84 85 74  
 Address: Delta Manlift ZI de Fauillet BP 20  
 F-47400 Tonneins, France

### Manlift - Germany

Telephone Number: + 49 (0) 7253 9401 13  
 Fax number: + 49 (0) 7253 9401 16  
 Address: Liftlux Potain GmbH  
 Service und Ersatzteilzentrum  
 Heidigstrasse 17 D-76709 Kronau, Germany



[www.manitowoccranegroup.com](http://www.manitowoccranegroup.com)

## Asia/Pacific Region

### Singapore

Manitowoc Crane Group Asia PTE LTD  
 Telephone Number: + 65 6264 1188  
 Fax Number: + 65 6862 4040 (Sales/Admin)  
 + 65 6862 4142 (Parts/Service)  
 Address: 4 Kwong Min Road Singapore,  
 628707 Singapore

### China

Zhangjiagang Potain Constr. Machinery  
 PTE LTD  
 Telephone Number: + 86 512 5878 0088  
 Fax number: + 86 512 5878 0098  
 Address: Wenxingqiaonan Houcheng  
 Zhangjianggang, Jiangsu 215631 P R China

### Manitowoc Crane Group Asia Shanghai

#### Office

Telephone number: + 86 21 6270 0442  
 Fax number: + 86 21 6270 1436  
 Address: RM. D-305 Shanghai-Mira  
 Commercial Centre  
 No.2633, West Yanan Rd  
 Shanghai, PR China  
 Post Code 200336

### Manitowoc Crane Group Asia Shanghai

#### Operations Office

Telephone Number: + 86 21 5111 3579  
 Fax number: + 86 21 5111 3578  
 Address: Rm1201, #933 Zhongshan West  
 Road Hongqiao Silver Tower  
 Shanghai 200051, P R China

### Australia

Manitowoc Crane Group Australia  
 Grove Australia PTY LTD - Melbourne Office  
 Telephone Number: + 61 3 9336 1300  
 1300 788 089  
 (Spare Parts)  
 Fax number: + 61 3 9336 1322  
 Address: 2/22 Disney Avenue, East Keilor  
 VIC 3033 Australia

### Grove Australia PTY LTD - Sydney Office

Telephone Number: + 61 2 9896 4433  
 1300 788 089  
 (Spare Parts)  
 Fax number: + 61 2 9896 3122

Address: 142 Magowar Road  
 Giraween NSW 2145 Australia

### Korea

Manitowoc Crane Group Korea CO LTD  
 Telephone Number: + 82 2 508 3361  
 Fax number: + 82 2 508 3365  
 Address: Room 301 Gugu Building #145-18  
 Samsung-Dong, Kangnam-Ku  
 Seoul 135-878 Korea

### Philippines

Potain Inc.  
 Telephone Number: + 63 2 844 9437  
 + 63 2 844 9438  
 + 63 2 844 9439  
 + 63 2 844 9440  
 Fax number: + 63 2 844 4712  
 Address: G/F Southwest Centre Building  
 cor Makiling Street South SuperHighway  
 Palanan, Makati City 1235, Philippines