

Manitowoc 777

Product Guide



Features

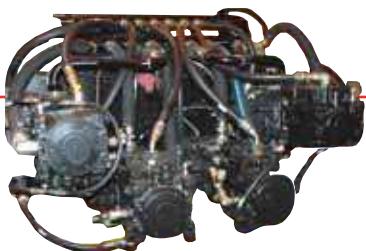
- 181 t (200 USt) capacity
- 667 m-ton (4,830 ft-kips) maximum load moment
- 82,3 m (270 ft) heavy-lift boom
- 91,4 m (300 ft) fixed jib on heavy-lift boom
- 106,7 m (350 ft) luffing jib on heavy-lift boom

Features



EPIC®

Manitowoc's field-proven Electronically Processed Independent Controls (EPIC) system delivers high productivity and precise load control by instantly matching an operator's commands to the crane function. EPIC's microprocessor maximizes a Manitowoc crane's function capability and simplifies servicing by pinpointing any problem in the crane's engine, power transmission and other operating systems. In addition, EPIC increases versatility by easily tailoring a Manitowoc crane's operation for specialized applications, with or without attachments. EPIC is a key reason no other crane can match the performance and reliability of Manitowoc.



Hydraulics

Our closed-loop system provides a separate hydraulic circuit to power each crane function. The result is truly independent, variable-speed operation of the swing, load hoist, boom hoist and travel functions.



FACT™ Connectors

Manitowoc's Fast Aligning Connection Technology (FACT) quickly aligns crane components for fast, safe assembly and disassembly.



Crawler drive shafts

The crawler drive shafts prevent contaminants from entering the system. By eliminating the need to disconnect hydraulic systems, crawler removal and assembly is safer and easier.

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Specifications

Upperworks



Engine

Cummins Model QSC8.3 – C340 diesel, 6 cylinder, 253 kW (340 BHP) @ 2100 governed RPM.

- Optional Caterpillar Model C-9 diesel, 6 cylinder, 253 kW (340 BHP) @ 2100 governed RPM.

Includes engine block heater (120 V), ether starting aid, manually operated disconnect clutch for cold weather starting, high silencing muffler, hydraulic oil cooler, radiator and fan.

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

Two 12 volt maintenance-free, Group 8D batteries, 1400 CCA at -18°C (0° F), 24 volt starting and 120 amp alternator.

One 469 l (124 gal) capacity diesel fuel tank, mounted on rear of upperworks, with level indicator in operator's cab.



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 providing microprocessor driven control logic, pump control, on-board diagnostics, and service information.

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

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

- Optional: upper boom point assembly with LMI.
- Optional: anemometer (wind indicator).
- Optional: foot controls for travel.



Hydraulic system

Six high-pressure piston pumps are driven through a multi-hydraulic pump transmission. These six pumps

provide independent "closed loop" hydraulic power for front drum, rear drum, boom hoist system, swing system, and both left and right crawler operation.

| System | kg/cm ² (psi) | lpm (gpm) |
|-----------------|--------------------------|-----------|
| Front Drum | 422 (6,000) | 300 (79) |
| Rear Drum | 422 (6,000) | 300 (79) |
| Boom Hoist | 422 (6,000) | 300 (79) |
| Swing System | 386 (5,500) | 225 (59) |
| Left Crawler | 422 (6,000) | 225 (59) |
| Right Crawler | 422 (6,000) | 225 (59) |
| Auxiliary Pump* | 422 (6,000) | 390 (102) |

*Optional pump powers auxiliary drum on liftcane.

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

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

Replaceable, spin on ten micron (absolute) full flow line filter is furnished in the hydraulic circuit. All oil is filtered prior to return to the hydraulic reservoir.

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



Drums

Two equal width winches 770 mm (30-1/8") wide and 495 mm (19-1/2") 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.

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). External contracting band brake mounted on drum manually applied by foot pedal with locking latch in operator's cab. Operator may select free-fall or powered lowering mode using a selector switch.

► Optional: high line speed drum 205m/min (674 fpm) can be ordered in place of standard front or rear drum.

► Optional: high line pull drum 195 kN (44,000 lb) can be ordered in place of standard front or rear drum.

► Optional: auxiliary (third) hydraulic powered drum rated at 89,0 kN (20,000 lb) line pull mounted in boom butt. Includes third drum control system.

Specifications

- Optional: auxiliary drum preparation includes electric wiring, controls, hydraulic pump and plumbing.
- Optional: bolt-on liftcrane/clamshell laggings.
- Optional: wire rope for various applications.



Mast

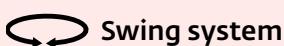
Moving mast is 7,9 m (26') long and connects the boom hoist cylinders to the boom-support pendants.

Spring cushioned boom stop and automatic boom stop standard.



Independent boom hoist is provided by two double-acting hydraulic cylinders connected to the mast. Boom hoist provides full range of boom angles from horizontal to 88 degrees, with or without load.

Boom hoist speed: raise 82,3 m (270') full main boom from 0°- 82° in 1 minute, 40 seconds.



High strength fabricated steel rotating bed is mounted on 2,15 m (84-1/2") diameter turntable single-row ball bearing.

Independent swing powered by a fixed displacement hydraulic motor coupled to a planetary gearbox with internal brake. 360° positive swing lock.

Swing system maximum speed: 2.7 rpm.



Counterweight

Includes connecting pins, brackets, and stops.

| Qty. | Item | Unit Weight | | Total Weight | | | |
|--|------------------|---------------------------|--------|---------------|----------------|--|--|
| | | kg | lb | kg | lb | | |
| Series 1 | | | | | | | |
| 1 | Tray | 15 876 | 35,000 | 15 876 | 35,000 | | |
| 4 | Upper side box | 7 938 | 17,500 | 31 752 | 70,000 | | |
| | | Series 1 Total | | 47 628 | 105,000 | | |
| Series 2 | | | | | | | |
| 2 | Upper Side Box | 7 938 | 17,500 | 15 876 | 35,000 | | |
| 2 | Upper Side Plate | 454 | 1,000 | 908 | 2,000 | | |
| 2 | Carbody Box | 9 979 | 22,000 | 19 958 | 44,000 | | |
| | | Series 2 Sub-Total | | 36 742 | 81,000 | | |
| ➤ Optional: add to Series 1 for Series 2 Total | | | | | | | |
| 84 370 186,000 | | | | | | | |



Operator's cab

Fully enclosed and insulated steel module located at the left front corner of rotating bed. 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 and air circulating fan are standard.

➤ Optional air conditioner.

➤ Optional nylon protective window covers.

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 7,55 m (24' 9-1/4") long with 97 cm (38") wide cast steel crawler pads and sealed "low maintenance" intermediate rollers. Each crawler is powered independently by a variable displacement hydraulic motor and includes two hydraulically powered pin actuators for fast installation and removal from carbody. Carbody mounted drive motors are connected to crawler final reduction via telescoping shafts. This permits crawlers to be removed without opening their hydraulic circuits. Crawlers provide ample tractive effort that allows counter rotation with full rated load. Maximum ground speed of 1,7 kph (1.05 mph).

➤ Optional: self-erect system includes: carbody jacking cylinders with pads, controls, 41 t (45 USt) assembly block, boom-butt installation support, and crawler handling chains.

➤ Optional: 122 cm (48") wide-cast steel crawler pads.

Attachments



No. 78 heavy-lift main boom

The liftcrane is equipped with a 18,3 m (60') No. 78 basic heavy-lift angle chord boom consisting of a 6,9 m (22' 6") butt and 11,4 m (37' 6") top with six 76,2 cm

Specifications

(30") diameter roller bearing sheaves on one shaft. Includes rope guides, and boom angle indicator. The No. 78 boom utilizes pendant rigging and Manitowoc's exclusive FACT™ connection system. The FACT connection system consists of two vertical pins, two horizontal connection pins and alignment pads for each boom connection location.

Luffing jib preparation included as standard.

- Optional: 3,05 m (10'), 6,1 m (20'), and 12,2 m (40') No. 78 boom inserts with pendant rigging and FACT™ connection system.
- Optional: No. 78 detachable upper boom point with one 76,2 cm (30") diameter tapered roller bearing steel sheave grooved for 1-1/8" 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.
- Optional: No. 134 fixed jib inserts 3,05 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 up 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. 138 fixed jib

- Optional: No. 138 basic fixed jib 9,1 m (30') length consisting of 4,6 m (15') jib butt and 4,6 m (15') jib top with 5,4 m (17' 9-7/16") jib strut, pendants and backstay. For use with No. 139 Luffing Jib.
- Optional: No. 138 fixed jib inserts 3,0 m (10') and 6,1 m (20') with pendants.

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

Optional equipment

- Optional: Blocks and Hooks, each with 762 mm (30") roller-bearing sheaves for 26 mm or (1")

wire rope, a roller-bearing swivel hook, a hook latch, and a swivel lock.

13,6 t (15 USt) swivel hook and weight ball.

41,0 t (45 USt) hook block with one 76,2 cm (30") sheave (assembly block)

54,4 t (60 USt) hook block with two 76,2 cm (30") sheaves

90,7 t (100 USt) hook block with three 76,2 cm (30") sheaves

160 t (175 USt) hook block with six 76,2 cm (30") sheaves

- Optional: Wire rope for various applications.

- Optional: Equipment and testing for special code compliance.

- 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 colors other than Manitowoc standard red and black.

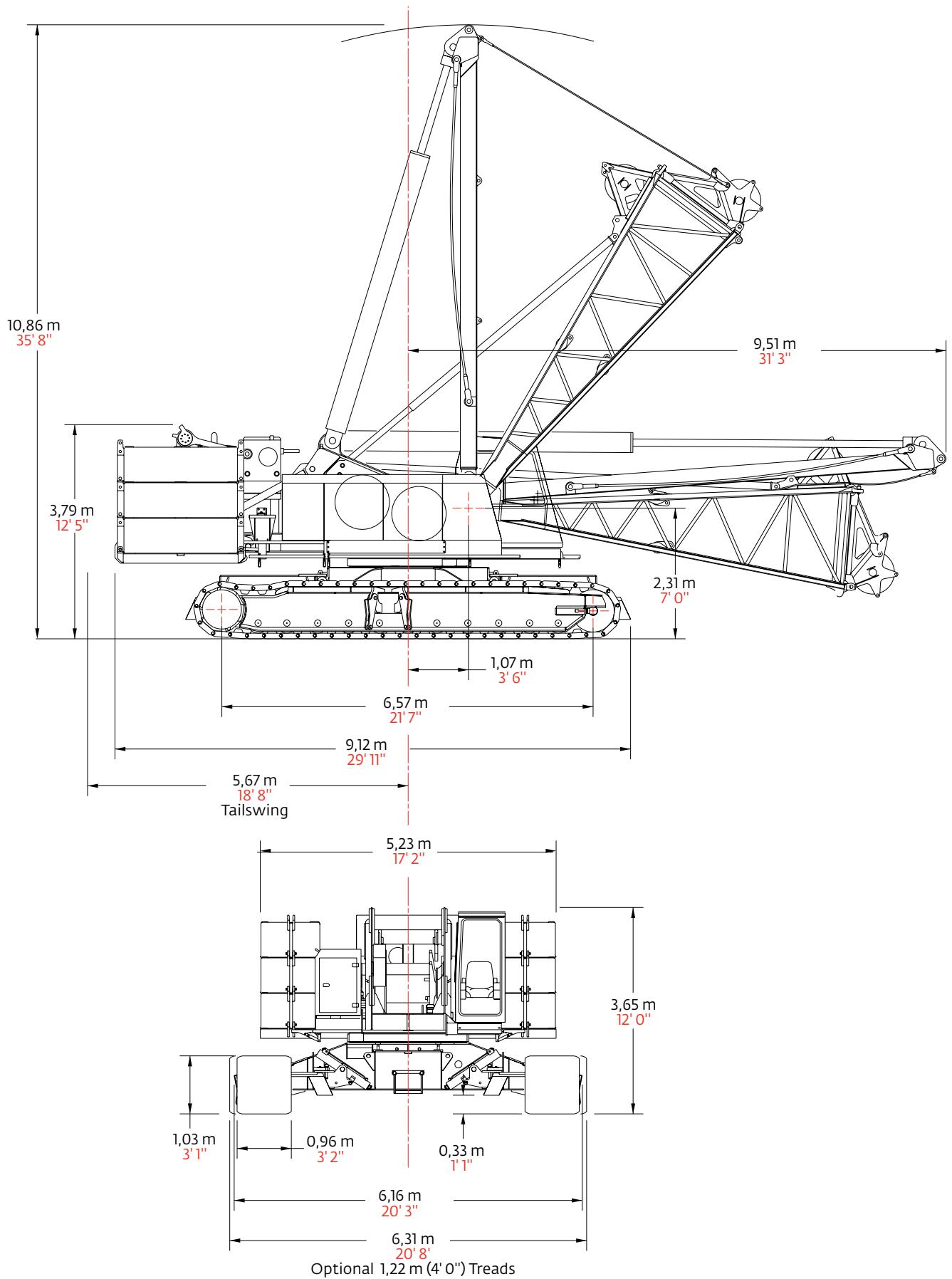
- Optional: Custom vinyl decals of customer name and/or logo from artwork supplied by customer.

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

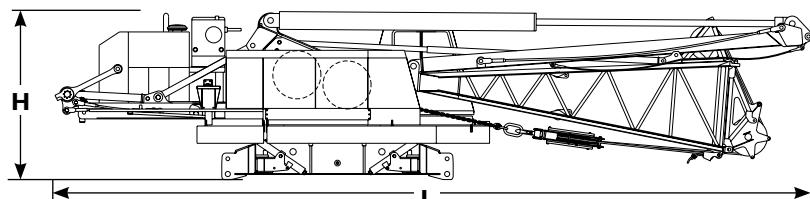
Optional applications

- Optional: For limited clamshell work: guide bars for lower boom point; Rud-O-Matic® No. 1866 spring-powered three-barrel tagline with 76,2 cm (36") diameter wheel; and pressure rollers for the front and rear hoisting drums. Front drum is closing line. Rear drum is holding line. Manitowoc's EPIC® controls can be changed from liftcrane to clamshell mode with the flip of a switch.

Outline dimensions



Outline dimensions



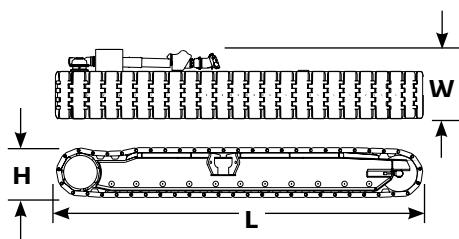
Basic crane x 1

| | | |
|--------|-----------|-----------|
| Length | 15,17 m | 49' 9" |
| Width | 3,42 m | 11' 1" |
| Height | 3,36 m | 11' 0" |
| Weight | 39 065 kg | 86,125 lb |

NOTE: Weight includes carbody, upperworks, two full power drums with maximum length hoist and whip lines, diesel powerplant, operator's cab, boom hoist cylinders, mast, boom butt with integral wire rope guide, optional self-assembly jacks, full hydraulic fluid reservoir and half tank of fuel.

If equipped with butt MTD 3rd drum, add 1 967 kg / 4,340 lb.

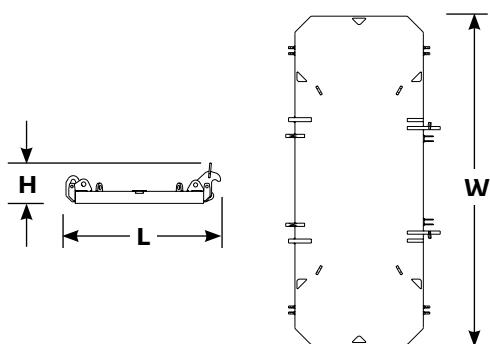
If equipped with rope for butt MTD 3rd drum, add 818 kg / 1,805 lb.



Crawlers x 2

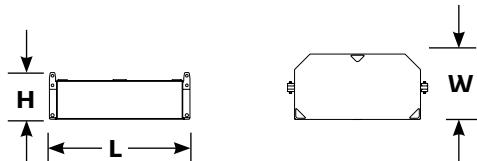
| | | |
|--------|-----------|-----------|
| Length | 7,56 m | 24' 10" |
| Width | 1,47 m | 4' 10" |
| Height | 1,04 m | 3' 5" |
| Weight | 15 320 kg | 33,775 lb |

NOTE: 970 mm (38") wide pad, 12 795 kg (28,210 lb) weight crawlers available.



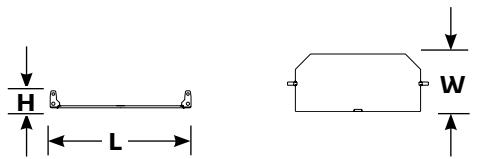
Counterweight tray x 4

| | | |
|--------|-----------|-----------|
| Length | 2,44 m | 8' 0" |
| Width | 6,99 m | 17' 1" |
| Height | 0,64 m | 2' 1" |
| Weight | 15 876 kg | 35,000 lb |



Side counterweight x 4

| | | |
|----------|----------|-----------|
| Series 1 | x 4 | |
| Series 2 | x 6 | |
| Length | 2,24 m | 7' 4" |
| Width | 1,07 m | 3' 6" |
| Height | 0,69 m | 2' 3" |
| Weight | 7 938 kg | 17,500 lb |

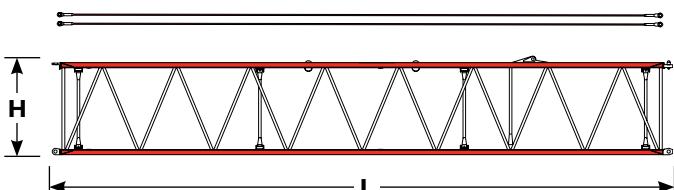
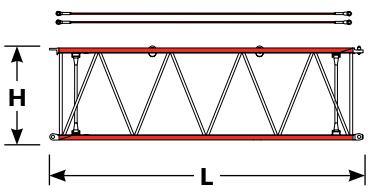
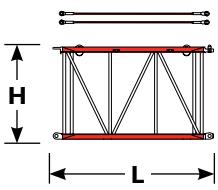
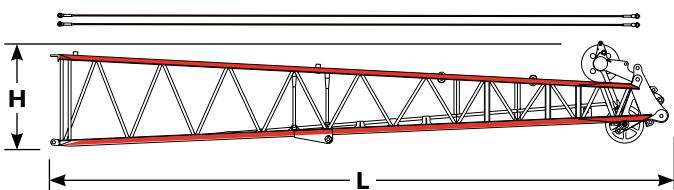
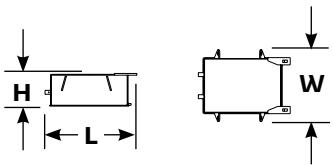


Side counterweight plate x 2

| | | |
|----------|--------|----------|
| Series 2 | x 2 | |
| Length | 2,24 m | 7' 4" |
| Width | 0,90 m | 3' 0" |
| Height | 0,28 m | 0' 11" |
| Weight | 454 kg | 1,000 lb |

► Option

Outline dimensions



Carbody center Series 2 x 2

| | | |
|--------|----------|-----------|
| 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 |

No. 78 boom top 11,4 m (37' 6") and wire rope guide, pendants, lower point x 1

| | | |
|--------|----------|----------|
| Length | 12,38 m | 40' 8" |
| Width | 2,24 m | 7' 4" |
| Height | 2,04 m | 6' 11" |
| Weight | 3 567 kg | 7,865 lb |

No. 78 boom insert 3,0 m (10') and pendants x 1

| | | |
|--------|--------|----------|
| Length | 3,20 m | 10' 6" |
| Width | 2,24 m | 7' 4" |
| Height | 1,89 m | 6' 3" |
| Weight | 722 kg | 1,595 lb |

No. 78 boom insert 6,1 m (20') and pendants x 1, 2

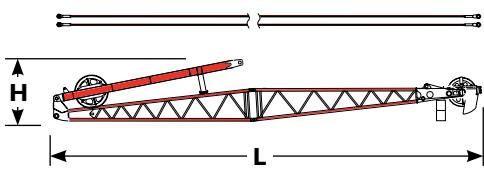
| | | |
|--------|---------|----------|
| Length | 6,25 m | 20' 6" |
| Width | 2,24 m | 7' 4" |
| Height | 1,89 m | 6' 3" |
| Weight | 1129 kg | 2,495 lb |

No. 78 boom insert 12,3 m (40') and pendants x 1, 2, 3, 4

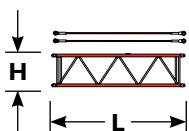
| | | |
|--------|----------|----------|
| Length | 12,34 m | 40' 6" |
| Width | 2,24 m | 7' 4" |
| Height | 1,89 m | 6' 3" |
| Weight | 1 994 kg | 4,290 lb |

Option

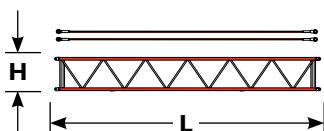
Outline dimensions



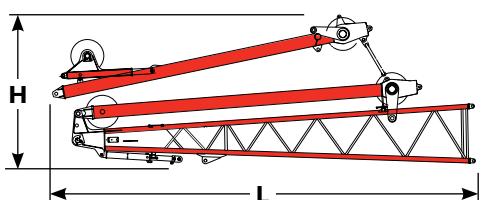
| | | |
|--------|---|----------|
| | No. 134 fixed jib 9,1 m (30') and strut, pendants | x 12 |
| Length | 9,60 m | 31' 6" |
| Width | 0,86 m | 2' 10" |
| Height | 1,29 m | 4' 3" |
| Weight | 1188 kg | 2,620 lb |



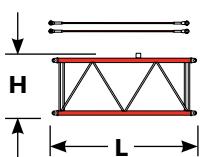
| | | |
|--------|---|-----------|
| | No. 134 jib insert 3,0 m (10') and pendants | x 1, 2, 3 |
| Length | 3,12 m | 10' 3" |
| Width | 0,78 m | 2' 7" |
| Height | 0,78 m | 2' 7" |
| Weight | 213 kg | 480 lb |



| | | |
|--------|---|--------|
| | No. 134 jib insert 6,1 m (20') and pendants | x 1, 2 |
| Length | 6,16 m | 20' 3" |
| Width | 0,78 m | 2' 7" |
| Height | 0,78 m | 2' 7" |
| Weight | 339 kg | 750 lb |



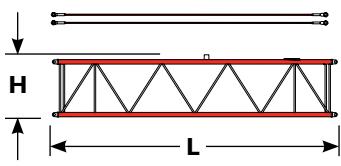
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|--------|--|-----------|
| | No. 139 luffing jib 8,3 m (27') butt and main strut, jib strut, guides, pendants | x 1 |
| Length | 8,78 m | 28' 10" |
| Width | 1,51 m | 5' 0" |
| Height | 3,14 m | 10' 3" |
| Weight | 5 056 kg | 10,460 lb |



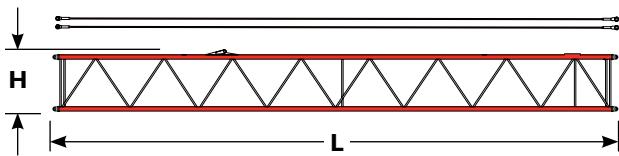
| | | |
|--------|---|--------|
| | No. 139 jib insert 3,0 m (10') and pendants | x 1 |
| Length | 3,15 m | 10' 4" |
| Width | 1,51 m | 5' 0" |
| Height | 1,34 m | 4' 5" |
| Weight | 379 kg | 840 lb |

Option

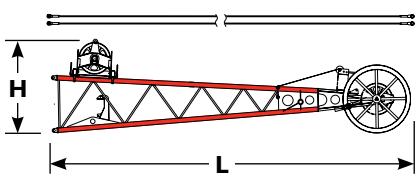
Outline dimensions



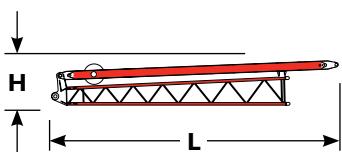
| | | |
|--------|---|----------|
| | No. 139 jib insert 6,1 m (20') and pendants | x 1, 2 |
| Length | 6,20 m | 20' 4" |
| Width | 1,51 m | 5' 0" |
| Height | 1,34 m | 4' 5" |
| Weight | 610 kg | 1,350 lb |



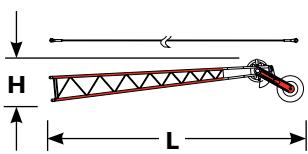
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|--------|--|-----------|
| | No. 139 jib insert 12,2 m (40') and pendants | x 1, 2, 3 |
| Length | 12,40 m | 40' 4" |
| Width | 1,51 m | 5' 0" |
| Height | 1,34 m | 4' 5" |
| Weight | 1 048 kg | 2,315 lb |



| | | |
|--------|--|----------|
| | No. 139 jib top 7,0 m (23') and pendants | x 1 |
| Length | 7,83 m | 25' 8" |
| Width | 1,51 m | 5' 0" |
| Height | 2,06 m | 6' 9" |
| Weight | 2 226 kg | 4,915 lb |



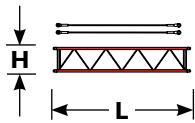
| | | |
|--------|---|--------|
| | No. 139 jib insert 6,1 m (20') and pendants | x 1 |
| Length | 5,64 m | 18' 6" |
| Width | 0,75 m | 2' 6" |
| Height | 0,91 m | 3' 0" |
| Weight | 350 kg | 775 lb |



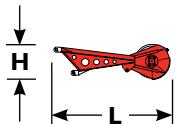
| | | |
|--------|---|--------|
| | No. 138 fixed jib 4,6 m (15') top and roller, pendant | x 1 |
| Length | 5,51 m | 18' 1" |
| Width | 0,76 m | 2' 6" |
| Height | 1,05 m | 3' 5" |
| Weight | 351 kg | 773 lb |

Option

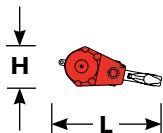
Outline dimensions



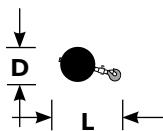
| | | |
|--------|---|-----------|
| | No. 138 jib insert 3,0 m (10') and pendants | x 1, 2, 3 |
| Length | 3,12 m | 10' 3" |
| Width | 0,76 m | 2' 6" |
| Height | 0,58 m | 1' 11" |
| Weight | 98 kg | 215 lb |



| | | |
|--------|-------------------------|--------|
| | No. 78 upper boom point | x 1 |
| Length | 2,64 m | 8' 8" |
| Width | 0,41 m | 1' 4" |
| Height | 0,81 m | 2' 8" |
| Weight | 420 kg | 925 lb |



| | | | | | |
|---|----------|----------|--------|--------|-------|
| Hook block for 26 mm or (1") wire rope | | | | | |
| Capacity | 160 t | 175 USt | Length | 1,68 m | 8' 8" |
| Weight | 2 268 kg | 5,000 lb | Height | 1,29 m | 4' 0" |



| | | | | | |
|--------------------|--------|----------|----------|--------|--------|
| Weight ball | | | | | |
| Capacity/swivel | 160 t | 175 USt | Diameter | 0,56 m | 1' 10" |
| Weight | 594 kg | 1,310 lb | Length | 1,07 m | 3' 6" |

Option

Transport data

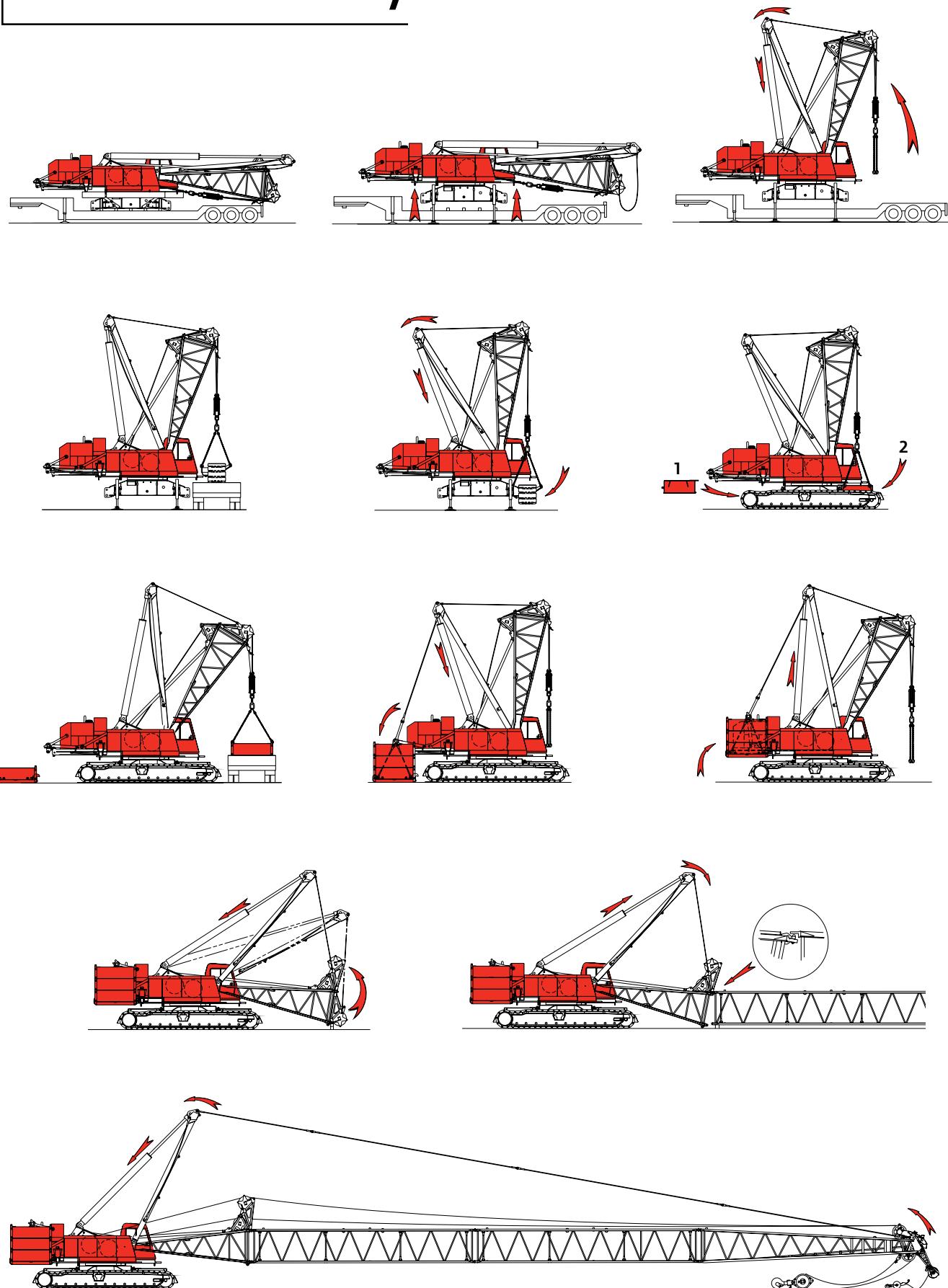
Trailer load out summary

| Item | Weight each item Kg (lb) | Model 777 Series 2 No. 78 boom 82,3 m (270') and No. 134 fixed jib 24,4 m (80') | | | | | | | |
|---|-----------------------------|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | Quantity on trailer load # | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Upperworks, carbody with No. 78 boom butt | 39 065 (86,125) | 1 | | | | | | | |
| Crawler assembly | 15 320 (33,775) | | 1 | 1 | | | | | |
| Counterweight tray | 15 876 (35,000) | | | | 1 | | | | |
| Upper side counterweight | 7 938 (17,500) | | | | | 2 | 2 | 1 | 1 |
| Upper side counterweight plate | 454 (1,000) | | | | | | | 1 | 1 |
| Carbody counterweight | 9 979 (22,000) | | | | | | | 1 | 1 |
| No. 78 mast top, pendants | 3 567 (7,865) | | | | 1 | | | | |
| 3,0 m (10') No. 78 mast insert and pendants | 722 (1,595) | | | | | | | | 1 |
| 6,1 m (20') No. 78 mast insert and pendants | 1129 (2,495) | | | | | | | 2 | |
| 12,2 m (40') No. 78 mast insert and pendants | 1944 (4,290) | | 1 | 1 | | 1 | 1 | | |
| 9,1 m (30') No. 134 jib and pendants | 1586 (3,515) | | | | | | | | 1 |
| 3,0 m (10') No. 134 jib insert and pendants | 216 (480) | | | | | | 1 | | |
| 6,1 m (20') No. 134 jib insert and pendants | 339 (750) | | | | | 1 | 1 | | |
| 160 t (175 USt) hook block | 2 268 (5,000) | | 1 | | | | | | |
| Miscellaneous* | | | | | | | | | |
| Approximate total shipping weight each trailer load kg (lb) | | 39 065 (86,125) | 19 534 (43,065) | 17 264 (38,065) | 19 443 (42,865) | 18 159 (40,040) | 18 375 (40,520) | 20 629 (45,490) | 20 679 (45,610) |

Trailer configurations - double drop (#2); step deck (#'s 4-6); flat bed (#'s 7, 8).

* Miscellaneous weights vary and are not itemized for individual trailer load totals.

Crane assembly



Note: Read the assembly folio in the operator's manual for a complete description of approved crane assembly procedures.

Performance data

Wire rope lengths

Boom No. 78

- or -

Fixed jib No. 134 on boom No. 78

| Boom or boom and jib length m (ft) | Whip line front, rear or auxiliary drum | | | | Front or rear drum | | Front drum | | Auxiliary drum | | |
|---|--|-------|----------------------|-------|-----------------------------|---------|---|---------------------------------|----------------|---|-----------------------------|
| | (1 Part of line) | | (2 Parts of line) | | 26 mm or (1") hoist line | | Maximum required parts of line | 32 mm or (1-1/4") hoist line | | Maximum required parts of line | 26 mm or (1") hoist line |
| | m | (ft) | m | (ft) | m | (ft) | | m | (ft) | | |
| 18,3 (60) | 49 | (160) | 70 | (230) | 267 | (875) | 12 | 191 | (625) | 8 | — |
| 21,3 (70) | 55 | (180) | 79 | (260) | 282 | (925) | 11 | 213 | (700) | 8 | 305 (1,000) |
| 24,4 (80) | 61 | (200) | 88 | (290) | 297 | (975) | 10 | 221 | (725) | 7 | 351 (1,150) |
| 27,4 (90) | 67 | (220) | 98 | (320) | 297 | (975) | 9 | 221 | (725) | 6 | 389 (1,275) |
| 30,5 (100) | 73 | (240) | 107 | (350) | 297 | (975) | 8 | 236 | (775) | 6 | 427 (1,400) |
| 33,5 (110) | 79 | (260) | 116 | (380) | 328 | (1,075) | 8 | 236 | (775) | 5 | 427 (1,400) |
| 36,6 (120) | 85 | (280) | 125 | (410) | 328 | (1,075) | 7 | 236 | (775) | 5 | 427 (1,400) |
| 39,6 (130) | 91 | (300) | 134 | (440) | 328 | (1,075) | 6 | 259 | (850) | 5 | 427 (1,400) |
| 42,7 (140) | 98 | (320) | 143 | (470) | 328 | (1,075) | 6 | 259 | (850) | 4 | 427 (1,400) |
| 45,7 (150) | 104 | (340) | 152 | (500) | 343 | (1,125) | 6 | 259 | (850) | 4 | 434 (1,425) |
| 48,8 (160) | 110 | (360) | 162 | (530) | 343 | (1,125) | 5 | 259 | (850) | 4 | 434 (1,425) |
| 51,8 (170) | 116 | (380) | 171 | (560) | 343 | (1,125) | 5 | 274 | (900) | 4 | 434 (1,425) |
| 54,9 (180) | 122 | (400) | 180 | (590) | 351 | (1,150) | 5 | 274 | (900) | 3 | 457 (1,500) |
| 57,9 (190) | 128 | (420) | 189 | (620) | 351 | (1,150) | 4 | 274 | (900) | 3 | 457 (1,500) |
| 61,0 (200) | 134 | (440) | 198 | (650) | 351 | (1,150) | 4 | 274 | (900) | 3 | 457 (1,500) |
| 64,0 (210) | 140 | (460) | 207 | (680) | 351 | (1,150) | 4 | 274 | (900) | 3 | 465 (1,525) |
| 67,1 (220) | 146 | (480) | 216 | (710) | 351 | (1,150) | 4 | 282 | (975) | 3 | 488 (1,600) |
| 70,1 (230) | 152 | (500) | 226 | (740) | 366 | (1,200) | 3 | 297 | (1,000) | 3 | 488 (1,600) |
| 73,2 (240) | 158 | (520) | 235 | (770) | 366 | (1,200) | 3 | 305 | (1,000) | 3 | 488 (1,600) |
| 76,2 (250) | 165 | (540) | 244 | (800) | 366 | (1,200) | 3 | 305 | (1,000) | 2 | 488 (1,600) |
| 79,2 (260) | 171 | (560) | 253 | (830) | 366 | (1,200) | 3 | 305 | (1,000) | 2 | 488 (1,600) |
| 82,3 (270) | 177 | (580) | 262 | (860) | 366 | (1,200) | 3 | 305 | (1,000) | 2 | 488 (1,600) |
| 85,3 (280) | 183 | (600) | 271 | (890) | | | | | | | |
| 88,4 (290) | 189 | (620) | | | | | | | | | |
| 91,4 (300) | 195 | (640) | | | | | | | | | |

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.

Auxiliary Drum cannot be used with 18,3 m (60') boom length.

Maximum block travel with maximum parts of line may be restricted when hoist line length exceeds 213 m (700') using 32 mm (1-1/4") wire rope.

Maximum capacity with 2 part whip line using the 32 mm or (1-1/4") wire rope is 26 760 kg (59,000 lb).

Capacity chart restrictions will occur when auxiliary drum is used. Maximum capacity is 108 860 kg (240,000 lb) with 12 parts line.

Performance data

Wire rope lengths Luffing jib No. 139 on boom No. 78

| Boom and luffing jib length m (ft) | Luffing jib hoist line front drum | | | | |
|---|--------------------------------------|------------------------------------|------------------------------------|-----------------------------------|-----------|
| | (4 parts of line) m (ft) | (3 parts of line) m (ft) | (2 parts of line) m (ft) | (1 part of line) m (ft) | |
| 42,7 (140) | 229 (750) | | | | 95 (310) |
| 45,7 (150) | 244 (800) | | | | 101 (330) |
| 48,8 (160) | 259 (850) | 213 (700) | | | 107 (350) |
| 51,8 (170) | 274 (900) | 221 (725) | | | 113 (370) |
| 54,9 (180) | 290 (950) | 236 (775) | | | 119 (390) |
| 57,9 (190) | 305 (1,000) | 244 (800) | | | 125 (410) |
| 61,0 (200) | 320 (1,050) | 259 (850) | 198 (650) | 131 (430) | |
| 64,0 (210) | 335 (1,100) | 274 (900) | 206 (675) | 137 (450) | |
| 67,1 (220) | — — | 282 (925) | 213 (700) | 143 (470) | |
| 70,1 (230) | — — | 297 (975) | 229 (750) | 149 (490) | |
| 73,2 (240) | — — | 305 (1,000) | 236 (775) | 155 (510) | |
| 76,2 (250) | — — | 320 (1,050) | 244 (800) | 162 (530) | |
| 79,2 (260) | — — | 335 (1,100) | 251 (825) | 168 (550) | |
| 82,3 (270) | — — | 343 (1,125) | 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) | — — | — — | 297 (975) | 198 (650) | |
| 97,5 (320) | — — | — — | 305 (1,000) | 204 (670) | |
| 100,6 (330) | — — | — — | 312 (1,025) | 210 (690) | |
| 103,6 (340) | — — | — — | 320 (1,050) | 216 (710) | |
| 106,7 (350) | — — | — — | — — | 223 (730) | |

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.

Capacity chart restrictions will occur when auxiliary drum is used. Maximum capacity is 36 290 kg (80,000 lb) with four parts of line.

Performance data

Wire rope lengths

Luffing jib No. 139 on boom No. 78

| Boom and luffing jib length m (ft) | Luffing jib hoist line Auxiliary drum | | | |
|---------------------------------------|--|-----------------------------|-----------------------------|----------------------------|
| | (4 parts of line) m (ft) | (3 parts of line) m (ft) | (2 parts of line) m (ft) | (1 part of line) m (ft) |
| 42,7 (140) | 229 (750) | | | 95 (310) |
| 45,7 (150) | 244 (800) | | | 101 (330) |
| 48,8 (160) | 259 (850) | | | 107 (350) |
| 51,8 (170) | 274 (900) | | | 113 (370) |
| 54,9 (180) | 290 (950) | | | 119 (390) |
| 57,9 (190) | 305 (1,000) | | | 125 (410) |
| 61,0 (200) | 320 (1,050) | 259 (850) | | 131 (430) |
| 64,0 (210) | 335 (1,100) | 274 (900) | | 137 (450) |
| 67,1 (220) | 351 (1,150) | 282 (925) | | 143 (470) |
| 70,1 (230) | 366 (1,200) | 297 (975) | 229 (750) | 149 (490) |
| 73,2 (240) | 381 (1,250) | 305 (1,000) | 236 (775) | 155 (510) |
| 76,2 (250) | 396 (1,300) | 320 (1,050) | 244 (800) | 162 (530) |
| 79,2 (260) | 411 (1,350) | 335 (1,100) | 251 (825) | 168 (550) |
| 82,3 (270) | 427 (1,400) | 343 (1,125) | 259 (850) | 174 (570) |
| 85,3 (280) | — — | 358 (1,175) | 267 (875) | 180 (590) |
| 88,4 (290) | — — | 366 (1,200) | 282 (925) | 186 (610) |
| 91,4 (300) | — — | 373 (1,225) | 290 (950) | 192 (630) |
| 94,5 (310) | — — | — — | 297 (975) | 198 (650) |
| 97,5 (320) | — — | — — | 305 (1,000) | 204 (670) |
| 100,6 (330) | — — | — — | 312 (1,025) | 210 (690) |
| 103,6 (340) | — — | — — | 320 (1,050) | 216 (710) |

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.

Drums each provide 88,9 kN (20,000 lb) maximum single line pull.

Wire rope lengths

Fixed jib No. 138 on Luffing jib No. 139 on Boom No. 80

| Boom, luffing jib and fixed jib length m (ft) | Fixed jib whip line Front drum or auxiliary drum | |
|--|---|--------|
| | (1 part of line) m (ft) | m (ft) |
| 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) | |
| 121,9 (400) | 253 (830) | |
| 125,0 (410) | 259 (850) | |

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).

Performance data

Wire rope specifications 5:1 Safety Factor

Boom No. 78

- or -

Fixed jib No. 134 on boom No. 78

- or -

Luffing jib No. 139 on boom No. 78

- or -

Fixed jib No. 138 on luffing jib No. 139 on boom No. 78

| <u>Part number</u> Function | 5:1 Safety factor 2160 N/mm ² | | | | |
|--------------------------------|---|------------------------------|--|---------------------------------------|------------------------------|
| | No. 719379 Hoist line Whip line | No. 719378 Auxiliary line | No. 719413* Hoist line Whip line (High line pull) | No. 719392 Hoist line Whip line | No. 719393 Auxiliary line |
| Size wire rope | 26 mm — | 26 mm — | 32 mm — | — (1") | — (1") |
| Minimum breaking strength | 656,1 kN (147,500 lb) | 650,6 kN (146,200 lb) | 1 085,3 kN (244,000 lb) | 684,2 kN (153,800 lb) | 620,9 kN (139,600 lb) |
| Maximum load per line | 13 380 kg (29,500 lb) | 9 070 kg (20,000 lb) | 19 960 kg (44,000 lb) | 13 380 kg (29,500 lb) | 9 070 kg (20,000 lb) |
| Approximate weight | 3,17 kg/m (2,13 lb/ft) | 3,17 kg/m (2,13 lb/ft) | 4,381 kg/m (3,23 lb/ft) | 3,02 kg/m (2,03 lb/ft) | 3,02 kg/m (2,03 lb/ft) |

* Right Regular Lay

Wire rope specifications 3.5:1 Safety Factor

Boom No. 78

- or -

Fixed jib No. 134 on boom No. 78

- or -

Luffing jib No. 139 on boom No. 78

- or -

Fixed jib No. 138 on luffing jib No. 139 on boom No. 78

| <u>Part number</u> Function | 3.5:1 Safety Factor Right regular lay, 6x25 filler wire, extra improved plow steel, IWRC | | | |
|--------------------------------|--|---------------------------------------|---|------------------------------|
| | No. 719387 Hoist line Whip line Auxiliary line | No. 719060 Hoist line Whip line | No. 719278 Hoist line Whip line (High line pull) | No. 719073 Auxiliary line |
| Size wire rope | 26 mm — | — (1") | — (1-1/4") | — (1") |
| Minimum breaking strength | 483,1 kN (108,600 lb) | 460,0 kN (103,400 lb) | 72 480 kg (159,800 lb) | 40 730 kg (89,890 lb) |
| Maximum load per line | 13 380 kg (29,500 lb) | 13 380 kg (29,500 lb) | 19 960 kg (44,000 lb) | 9 070 kg (20,000 lb) |
| Approximate weight | 2,89 kg/m (1,94 lb/ft) | 2,75 kg/m (1,85 lb/ft) | 4,30 kg/m (2,89 lb/ft) | 2,75 kg/m (1,85 lb/ft) |

Performance data

| Drums and laggings | | | | | | | | | |
|--------------------|-----------------------------------|---------------|------------------|-----------|---------------------|---------------------|--------------------------------------|---------------------|----------------|
| | Application | Drums | | | | | | | |
| | | Drum location | Drum part number | Drum type | Drum diameter | Drum width | Optional grooved lagging part number | Lagging diameter | Wire rope size |
| Basic liftcrane | Hoist | Front | 178272 | Bare | 495 mm (19-1/2") | 765 mm (30-1/8") | 502392 | 540 mm (21-1/4") | 26 mm — |
| | Hoist (optional dual input drive) | Front | 178273 | Bare | 495 mm (19-1/2") | 765 mm (30-1/8") | 502391 | 540 mm (21-1/4") | — 1" |
| | Whip | Rear | 178272 | Bare | 495 mm (19-1/2") | 765 mm (30-1/8") | 502392 | 540 mm (21-1/4") | 26 mm — |
| | Whip (optional dual input drive) | Rear | 178273 | Bare | 495 mm (19-1/2") | 765 mm (30-1/8") | 502391 | 540 mm (21-1/4") | — 1" |
| | Hoist (auxiliary) | Boom Butt | 177379 | Bare | 495 mm (19-1/2") | 940 mm (37") | 502391 | 540 mm (21-1/4") | 26 mm — |
| | | | | | | | | 540 mm (21-1/4") | — 1" |
| | Hoist | Front | 178272 | Bare | 495 mm (19-1/2") | 765 mm (30-1/8") | 502392 | 540 mm (21-1/4") | 26 mm — |
| | Hoist (optional dual input drive) | Front | 178273 | Bare | 495 mm (19-1/2") | 765 mm (30-1/8") | 502391 | 540 mm (21-1/4") | — 1" |
| | Hoist (auxiliary) | Boom Butt | 177379 | Bare | 495 mm (19-1/2") | 940 mm (37") | 502372 | 540 mm (21-1/4") | 26 mm — |
| | | | | | | | 502382 | 540 mm (21-1/4") | — 1" |
| Clamshell | Closing | Front | 178272 | | | 765 mm (30-1/8") | 502410 | 540 mm (21-1/4") | 26 mm OR 1" |
| | Holding | Rear | 178272 | | | 765 mm (30-1/8") | 502410 | 540 mm (21-1/4") | 26 mm OR 1" |
| | Drag | Front | 178272 | | | 765 mm (30-1/8") | 502410 | 540 mm (21-1/4") | 26 mm OR 1" |
| | Hoist | Rear | 178272 | | | 765 mm (30-1/8") | 502410 | 540 mm (21-1/4") | 26 mm OR 1" |
| Dragline | | | | | | | | | |

Performance data

Drum capacities - wire rope

| | | Maximum length | |
|----------------------------|--|---|--|
| | | No lagging | With lagging |
| Front drum (hoist or whip) | | | |
| 26 mm wire rope | | 327 m 6 layers (1,074 ft) 6 layers | 280 m 5 layers* (918 ft) 5 layers* |
| 32 mm wire rope | | — | 145 m 3 layers** (475 ft) 3 layers** |
| (1-1/4") wire rope | | — | |
| Left rear drum (whip) | | | |
| 29 mm wire rope | | 327 m 6 layers (1,074 ft) 6 layers | 280 m 5 layers* (918 ft) 5 layers* |
| (1-1/8") wire rope | | | |
| Auxiliary drum (whip) | | | |
| 26 mm wire rope | | 403 m 6 layers (1,323 ft) 6 layers | 431 m 8 layers* (1,415 ft) 8 layers** |
| (1") wire rope | | | |

NOTE: 5 m (17') is deducted from maximum spooling capacities for 3 dead wraps per drum or lagging.

*Lagging diameter 540 mm (21-1/4").

**Lagging diameter 641 mm (25-1/4").

Main and whip drums - 131 kN (29,500 lb)

| Layer | Full power drum - continuous duty Standard pull/single line speed | | | | |
|-------------------|--|--------------|--------------|--------------|--------------|
| | m/min (ft/min) | 1 | 2 | 3 | 4 |
| Line pull kg (lb) | | | | | |
| 0 (0) | 99 (325) | 108 (354) | 117 (383) | 126 (413) | 135 (442) |
| 2 268 (5,000) | 93 (306) | 101 (331) | 109 (357) | 116 (382) | 124 (406) |
| 4 536 (10,000) | 88 (287) | 94 (309) | 101 (330) | 107 (351) | 111 (363) |
| 6 803 (15,000) | 75 (245) | 76 (249) | 77 (252) | 78 (256) | 79 (260) |
| 9 072 (20,000) | 59 (194) | 60 (197) | 61 (201) | 63 (205) | 64 (208) |
| 11 340 (25,000) | 50 (163) | 51 (167) | 52 (170) | 53 (174) | 54 (177) |
| 13 380 (29,500) | 44 (144) | 45 (148) | 46 (151) | 47 (155) | 48 (158) |

NOTE: Line pull is infinitely variable. With 540 mm (21-1/4") lagging for 26 mm or (1") wire rope.

Main and whip drums - 131 kN (29,500 lb)

| | | High speed drum - continuous duty Single line pull/single line speed | | | | |
|-------------------|--------------|---|--------------|--------------|--------------|---|
| Layer | | m/min (ft/min) | | | | |
| | | 1 | 2 | 3 | 4 | 5 |
| Line pull kg (lb) | | | | | | |
| 0 (0) | 151 (496) | 165 (541) | 178 (585) | 192 (630) | 205 (674) | |
| 2 268 (5,000) | 141 (462) | 152 (500) | 164 (537) | 175 (574) | 186 (611) | |
| 4 536 (10,000) | 130 (427) | 140 (459) | 144 (471) | 145 (474) | 145 (477) | |
| 6 803 (15,000) | 98 (321) | 99 (324) | 99 (326) | 100 (329) | 101 (332) | |
| 9 072 (20,000) | 76 (249) | 77 (251) | 77 (254) | 78 (257) | 79 (260) | |
| 11 340 (25,000) | 63 (205) | 63 (208) | 64 (211) | 65 (214) | 66 (217) | |
| 13 380 (29,500) | 55 (179) | 56 (182) | 56 (185) | 57 (187) | 58 (190) | |

NOTE: Line pull is infinitely variable. With 540 mm (21-1/4") lagging for 26 mm or (1") wire rope.

Main and whip drums - 196 kN (44,000 lb)

| Layer | High pull drum - continuous duty Single line pull/single line speed | | | |
|-------------------|--|--------------|--------------|---|
| | m/min (ft/min) | 1 | 2 | 3 |
| Line pull kg (lb) | | | | |
| 0 (0) | 119 (389) | 130 (425) | 141 (462) | |
| 2 268 (5,000) | 112 (368) | 122 (400) | 132 (432) | |
| 4 536 (10,000) | 106 (347) | 114 (375) | 123 (403) | |
| 9 072 (20,000) | 74 (242) | 74 (244) | 75 (246) | |
| 13 608 (30,000) | 52 (169) | 52 (172) | 53 (174) | |
| 18 143 (40,000) | 41 (133) | 42 (136) | 42 (138) | |
| 19 958 (44,000) | 38 (123) | 38 (126) | 39 (128) | |

NOTE: Line pull is infinitely variable. With 641 mm (25-1/4") lagging for 32 mm or (1-1/4") wire rope.

Performance data

Maximum length – unassisted raising

No. 134 fixed jib on No. 78 main boom
Series 2

| Method | Main boom | Fixed jib |
|--------------------------------|---------------|--------------|
| Over front of blocked crawlers | 82,3 (270) | – |
| | 79,2 (260) | – |
| | 76,2 (250) | – |
| | 73,2 (240) | 9,1 (30) |
| | 70,1 (230) | 15,2 (50) |
| | 67,1 (220) | 24,4 (80) |
| Over rear of blocked crawlers | 79,2 (260) | – |
| | 76,2 (250) | – |
| | 73,2 (240) | – |
| | 70,1 (230) | 15,2 (50) |
| | 67,1 (220) | 67,1 (70) |
| | 64,0 (210) | 24,4 (80) |
| Over side of blocked crawlers | 70,1 (230) | – |
| | 67,1 (220) | – |
| | 64,0 (210) | 15,2 (50) |
| | 61,0 (200) | 67,1 (70) |
| | 57,9 (190) | 24,4 (80) |

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

Maximum length – unassisted raising

No. 139 luffing jib on No. 78 main boom
Series 2

| Method | In-line procedure | | Jack-knife procedure | |
|-------------------------------|-------------------|---------------------------|----------------------|----------------------------|
| | Main boom | Luffing jib | Main boom | Luffing jib |
| Over end of blocked crawlers | 16,8 (55) | 15,2 – 36,6 (50 – 120) | 16,8 (55) | 39,6 – 45,7 (130 – 150) |
| | 19,8 (65) | 15,2 – 33,5 (50 – 110) | 19,8 (65) | 36,6 – 45,7 (120 – 150) |
| | 22,9 (75) | 15,2 – 30,5 (50 – 100) | 22,9 (75) | 33,5 – 45,7 (110 – 150) |
| | 25,9 (85) | 15,2 – 24,4 (50 – 80) | 25,9 (85) | 27,4 – 45,7 (90 – 150) |
| | 29,0 (95) | 15,2 – 21,3 (50 – 70) | 29,0 (95) | 24,4 – 45,7 (80 – 150) |
| | 32,0 (105) | 15,2 – 18,3 (50 – 60) | 32,0 (105) | 21,3 – 45,7 (70 – 150) |
| Over rear of blocked crawlers | – | – | 35,1 (115) | 15,2 – 45,7 (50 – 150) |
| | – | – | 38,1 (125) | 15,2 – 42,7 (50 – 140) |
| | – | – | 41,1 (135) | 15,2 – 30,5 (50 – 100) |
| | – | – | 44,2 (145) | 18,3 (60) |
| | – | – | – | – |
| | – | – | – | – |

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

Maximum length – unassisted raising

No. 138 fixed jib on No. 139 luffing jib
on No. 78 main boom

777
Series 2
Jack-knife procedure

| Method | Main boom | Luffing jib | Fixed jib |
|------------------------------|---------------|---------------|--------------|
| Over end of blocked crawlers | 54,9 (180) | 51,8 (170) | 18,3 (60) |

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

Working weight

| Configuration | kg (lb) | |
|---|----------------------|----------------------|
| | 777 Series 1 | 777 Series 2 |
| 18,3 m (60') No. 78 main boom | 118 655 (261,590) | 155 450 (342,710) |
| 82,3 m (270') No. 78 main boom combined with 24,4 m (80') No. 134 fixed jib | 133 034 (293,290) | 169 830 (374,410) |

Typical working weight consists of: hydraulic reservoirs full, fuel half-full, drums loaded with standard lengths of wire rope, upper boom point, 160 t (175 US) hook block, and standard weight ball.

NOTE: Upper boom point not used with fixed jib.

Boom combinations

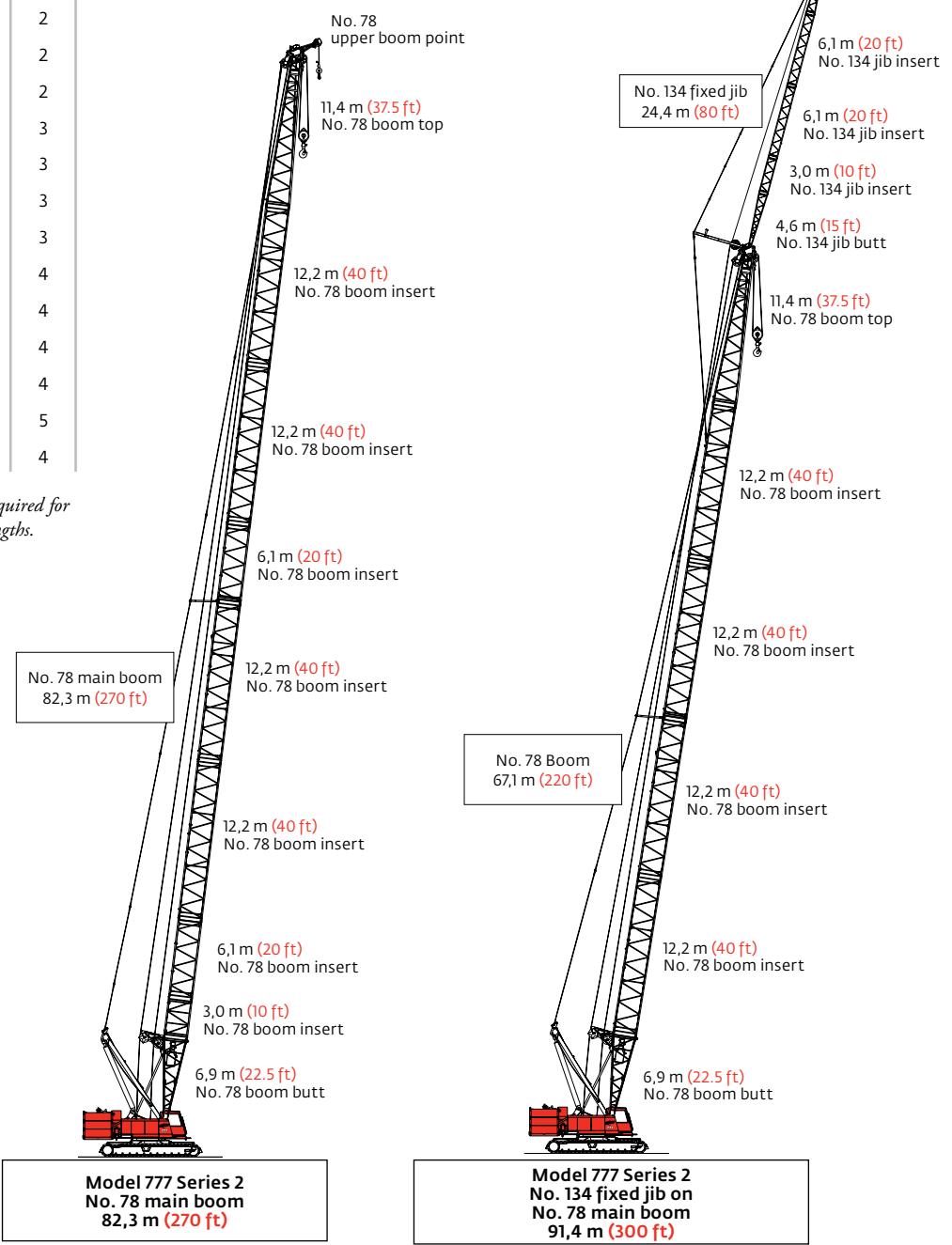
No. 78 main boom combinations

| Boom length m (ft) | Boom inserts | | |
|-----------------------|------------------|------------------|-------------------|
| | 3,0 m (10 ft) | 6,1 m (20 ft) | 12,2 m (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 |
| 79,2 (260) | — | — | 5 |
| 82,3 (270) | 1 | 2 | 4 |

No. 134 fixed jib combinations

| Jib length m (ft) | Fixed jib inserts | |
|----------------------|-------------------|------------------|
| | 3,0 m (10 ft) | 6,1 m (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 |

NOTE: Intermediate suspension required for 57,9 m (190') and longer boom lengths.



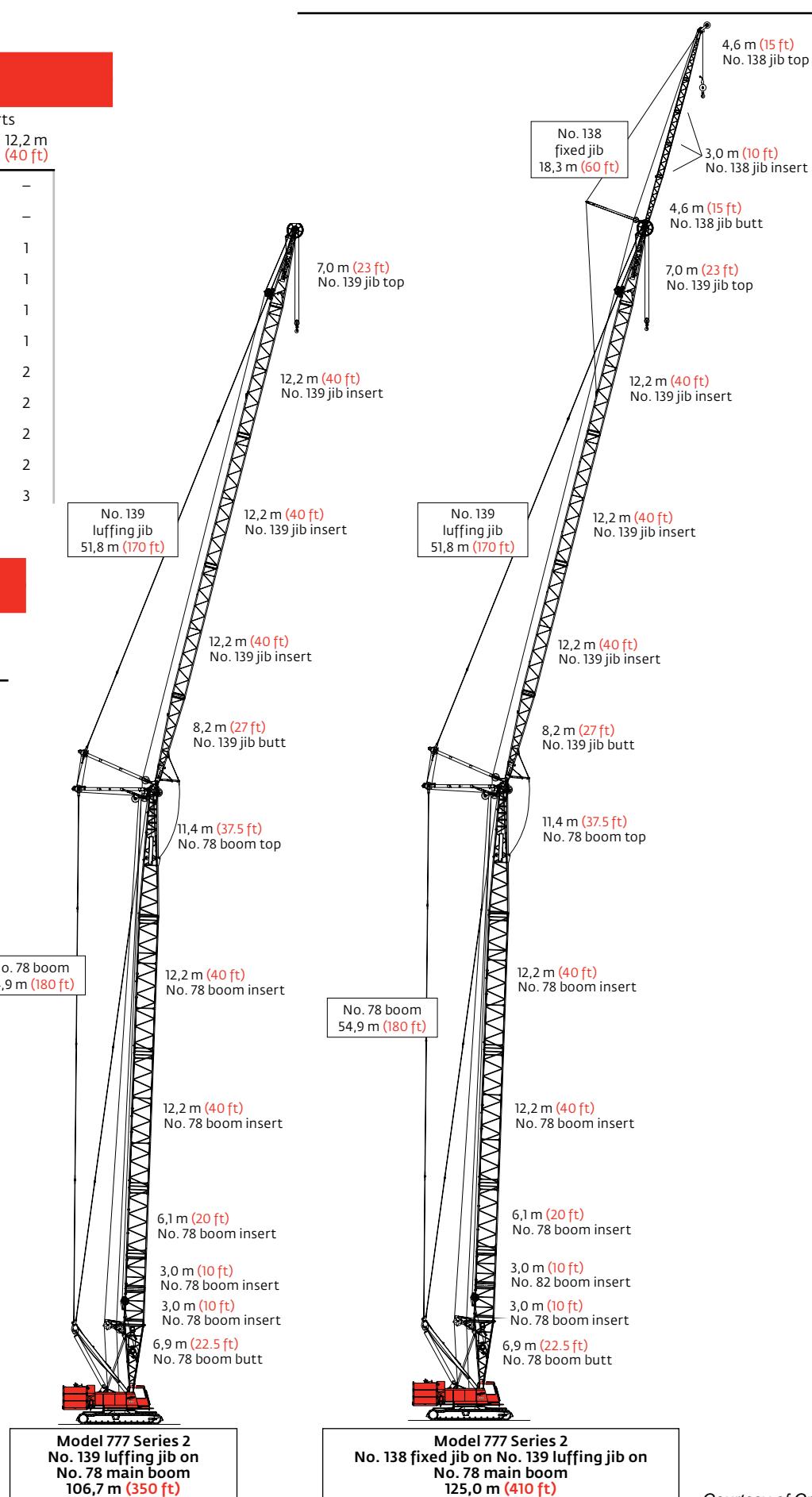
Boom combinations

No. 139 luffing jib combinations

| Jib length m (ft) | Luffing jib inserts | 3,0 m (10 ft) | 6,1 m (20 ft) | 12,2 m (40 ft) |
|----------------------|---------------------|------------------|------------------|-------------------|
| 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) | 0 | 0 | 3 | |

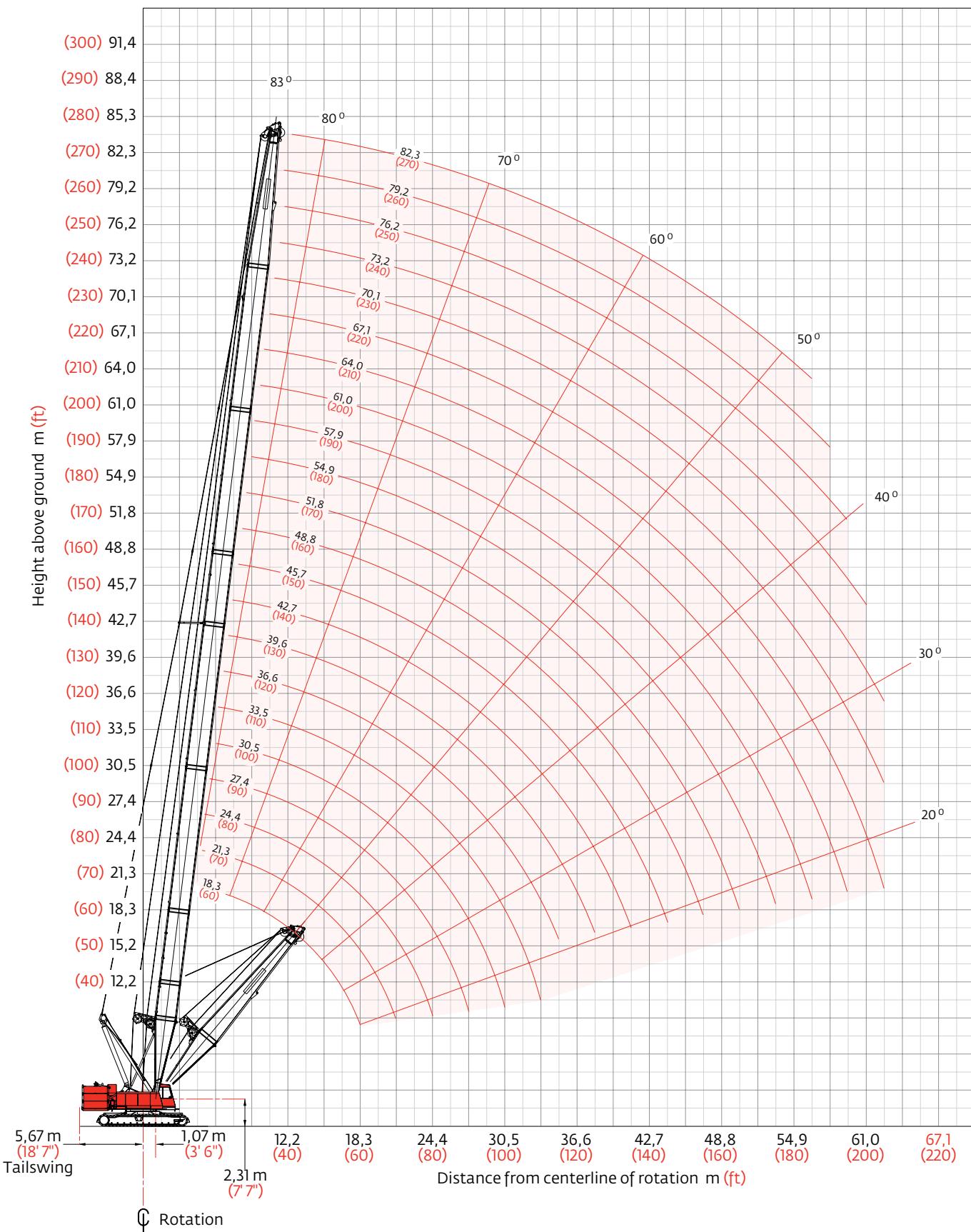
No. 138 fixed jib combinations

| Jib length m (ft) | Fixed jib inserts | 3,0 m (10 ft) |
|----------------------|-------------------|------------------|
| 9,1 (30) | - | |
| 12,2 (40) | 1 | |
| 15,2 (50) | 2 | |
| 18,3 (60) | 3 | |



Heavy-lift boom range diagram

No. 78 main boom



Heavy-lift boom load charts

Liftcrane boom capacities - Series 2

Boom No. 78

64 410 kg (142,000 lb) Counterweight 19 960 kg (44,000 lb) Crawler frame counterweight

360° Rating

kg (lb) x 1000

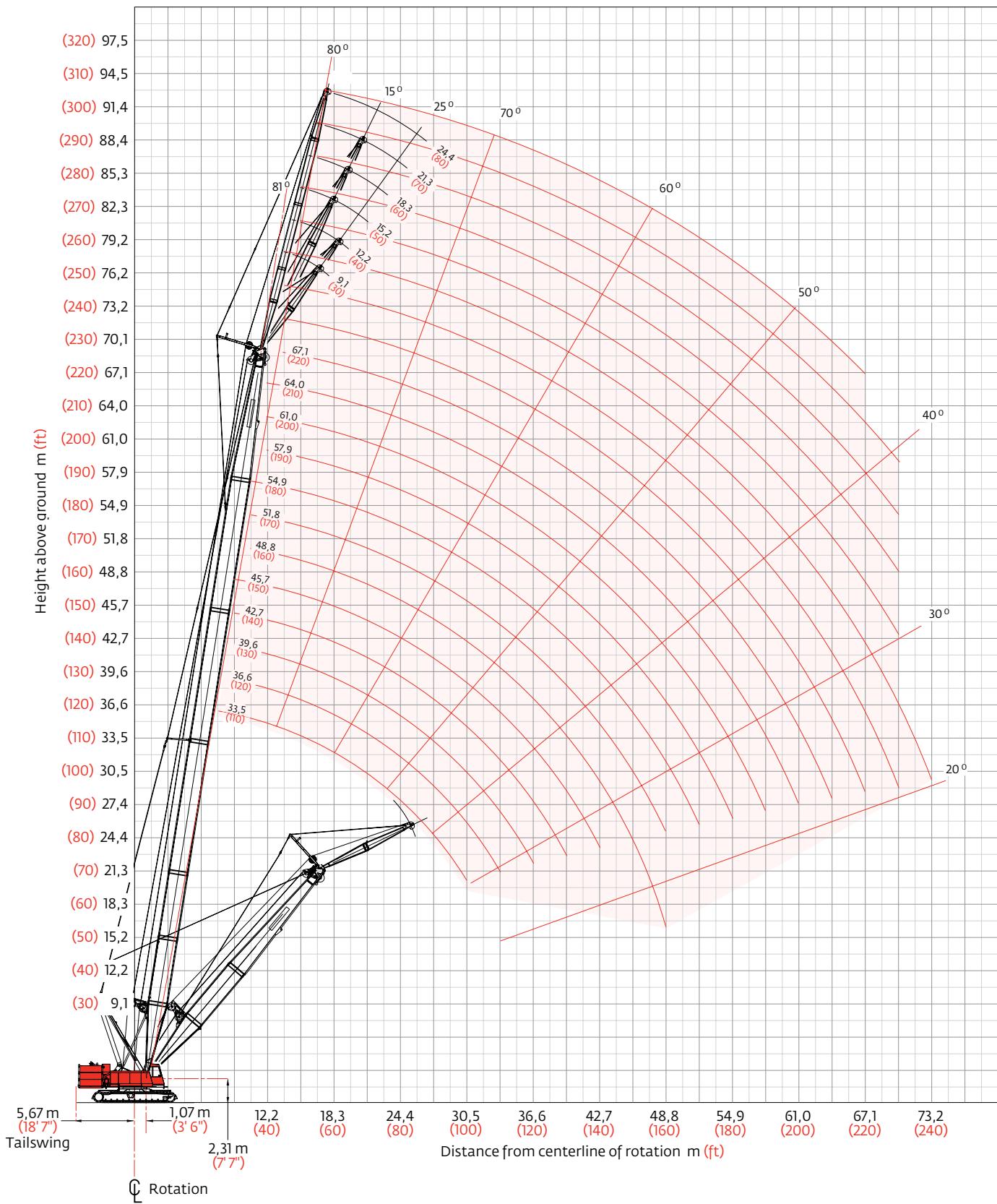
| Boom m (ft) | 18,3 (60) | 24,4 (80) | 30,5 (100) | 36,6 (120) | 42,7 (140) | 48,8 (160) | 51,8 (170) | 57,9 (190) | 64,0 (210) | 70,1 (230) | 76,2 (250) | 82,3 (270) |
|----------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|
| Radius | | | | | | | | | | | | |
| 4,0 (13) | 160,0 (352.8) | | | | | | | | | | | |
| 4,5 (15) | 146,1 (316.7) | — (275.5) | | | | | | | | | | |
| 5,0 (17) | 131,9 (281.3) | 119,9 (259.9) | | | | | | | | | | |
| 6,0 (20) | 110,8 (240.6) | 109,6 (239.9) | 96,3 (210.7) | — (192.2) | | | | | | | | |
| 7,0 (24) | 95,2 (201.2) | 95,2 (201.0) | 89,0 (191.7) | 81,5 (175.9) | — (157.9) | | | | | | | |
| 9,0 (30) | 74,1 (160.9) | 74,0 (160.7) | 73,9 (160.2) | 70,1 (152.2) | 64,3 (140.6) | 58,6 (128.1) | 56,3 (123.0) | — (116.6) | | | | |
| 10,0 (34) | 64,5 (135.0) | 65,0 (135.9) | 65,1 (136.0) | 63,2 (134.7) | 60,1 (127.5) | 54,9 (118.4) | 52,6 (113.4) | 50,7 (109.9) | 47,3 (102.7) | — (97.1) | | |
| 12,0 (40) | 49,6 (107.1) | 49,9 (107.8) | 49,9 (107.8) | 50,0 (107.9) | 49,8 (107.7) | 47,5 (103.2) | 46,2 (100.5) | 44,2 (96.0) | 41,3 (89.7) | 39,0 (84.7) | 37,1 (80.5) | |
| 14,0 (50) | 40,0 (78.4) | 40,3 (79.1) | 40,3 (79.1) | 40,3 (79.1) | 40,2 (78.8) | 40,2 (78.5) | 39,6 (78.3) | 37,8 (76.5) | 35,6 (72.5) | 33,5 (68.0) | 31,6 (64.0) | 29,6 (59.6) |
| 18,0 (60) | 28,1 (60.6) | 28,4 (61.5) | 28,4 (61.5) | 28,4 (61.5) | 28,3 (61.1) | 28,1 (60.8) | 28,0 (60.6) | 27,7 (59.8) | 27,4 (59.3) | 26,0 (56.4) | 24,5 (53.3) | 22,7 (49.3) |
| 22,0 (70) | | 21,4 (49.5) | 21,5 (49.6) | 21,5 (49.6) | 21,3 (49.2) | 21,2 (48.9) | 21,0 (48.6) | 20,7 (47.8) | 20,4 (47.3) | 20,2 (46.7) | 19,6 (44.9) | 18,2 (41.8) |
| 24,0 (80) | | | 18,9 (40.8) | 19,0 (41.0) | 19,0 (41.0) | 18,8 (40.6) | 18,6 (40.3) | 18,5 (40.0) | 18,2 (39.2) | 17,9 (38.7) | 17,7 (38.1) | 17,4 (37.4) |
| 26,0 (90) | | | | 16,9 (34.5) | 16,9 (34.5) | 16,7 (34.1) | 16,6 (33.8) | 16,5 (33.5) | 16,1 (32.7) | 15,8 (32.2) | 15,6 (31.5) | 15,2 (30.9) |
| 30,0 (100) | | | | | 13,5 (29.2) | 13,6 (29.4) | 13,4 (29.0) | 13,3 (28.7) | 13,2 (28.4) | 12,8 (27.6) | 12,6 (27.1) | 12,3 (26.4) |
| 34,0 (110) | | | | | | 11,2 (25.3) | 11,0 (25.0) | 10,9 (24.6) | 10,8 (24.4) | 10,4 (23.5) | 10,1 (23.0) | 9,8 (22.3) |
| 36,0 (120) | | | | | | | 10,0 (21.6) | 9,8 (21.2) | 9,7 (21.0) | 9,3 (20.1) | 9,1 (19.6) | 8,8 (18.9) |
| 40,0 (130) | | | | | | | | 8,3 (18.4) | 8,2 (18.2) | 8,1 (17.3) | 7,7 (16.8) | 7,1 (16.1) |
| 42,0 (140) | | | | | | | | | 7,4 (16.0) | 7,3 (15.8) | 6,9 (14.9) | 6,7 (14.4) |
| 46,0 (150) | | | | | | | | | | 6,2 (13.9) | 6,1 (13.7) | 5,7 (12.8) |
| 48,0 (160) | | | | | | | | | | | 5,6 (11.9) | 5,1 (11.0) |
| 52,0 (170) | | | | | | | | | | | | 4,2 (9.4) |
| 54,0 (180) | | | | | | | | | | | | 3,8 (8.0) |
| 56,0 (185) | | | | | | | | | | | | 3,3 (7.3) |

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

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

Fixed jib range diagram

No. 134 fixed jib on No. 78 main boom



Fixed jib load charts

Liftcrane jib capacities - Series 2

Jib No. 134 with 3 810 mm (12'6") strut on boom No. 78

64 410 kg (142,000 lb) Counterweight 19 960 kg (44,000 lb) Crawler frame counterweight

360° Rating kg (lb) x 1000

| | | 5° offset | | | | | 25° offset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------|-------------|-------------|------------|------------------|-------------|-------------|-------------|-------------|-------------|-----------|
| | | Boom m (ft) | 24,4 (80) | 39,6 (130) | 51,8 (170) | 67,1 (220) | 73,2 (240) | Boom m (ft) | 24,4 (80) | 39,6 (130) | 51,8 (170) | 67,1 (220) | 73,2 (240) | |
| Jib 9,1 m (30 ft) | Radius 7,6 (25) | | 26,7 (59.0) | | | | | Radius 10,0 (35) | | | | | | |
| | 10,0 (35) | | 26,7 (59.0) | — (59.0) | | | | 14,0 (50) | 19,0 (40.2) | 20,9 (44.7) | — (47.0) | | | |
| | 14,0 (50) | | 26,6 (58.2) | 26,7 (59.0) | 26,7 (59.0) | — (58.3) | (56.8) | 18,0 (60) | 16,7 (36.6) | 18,8 (41.4) | 20,1 (44.1) | (46.5) | (45.1) | |
| | 18,0 (60) | | 25,3 (55.6) | 26,5 (58.5) | 26,6 (58.8) | 25,8 (56.8) | (53.5) | 20,0 (70) | 15,7 (33.7) | 18,0 (38.6) | 19,2 (41.5) | 20,4 (44.1) | 19,4 (41.2) | |
| | 20,0 (70) | | 24,5 (51.2) | 24,8 (50.0) | 24,3 (48.8) | 23,4 (47.0) | (45.1) | 24,0 (80) | 14,3 (31.4) | 16,5 (36.3) | 17,9 (39.3) | 18,6 (40.2) | 17,3 (37.9) | |
| | 26,0 (90) | | 17,6 (36.1) | 17,1 (34.8) | 16,5 (33.6) | 15,6 (31.7) | (31.0) | 26,0 (90) | 13,8 (29.7) | 15,9 (34.3) | 16,9 (34.9) | 16,5 (33.4) | 16,2 (32.8) | |
| | 36,0 (120) | | | 10,3 (22.2) | 9,7 (21.0) | 8,8 (19.0) | (18.3) | 36,0 (120) | | 10,6 (22.8) | 10,1 (21.8) | 9,3 (20.1) | 9,1 (19.5) | |
| | 44,0 (150) | | | | 7,2 (14.9) | 6,7 (13.7) | (11.7) | 40,0 (140) | | | 8,4 (16.3) | 7,6 (14.6) | 7,3 (14.0) | |
| | 52,0 (180) | | | | | 4,6 (8.9) | 3,7 (6.9) | 3,4 (6.2) | 48,0 (160) | | | 5,7 (12.3) | 5,0 (10.6) | 4,6 (9.9) |
| | 60,0 (200) | | | | | | 2,2 (4.5) | | 52,0 (180) | | | 3,9 (7.4) | 3,7 (6.8) | |
| | 64,0 (210) | | | | | | | 60,0 (200) | | | | 2,1 (4.3) | | |

| | | Boom m (ft) | 24,4 (80) | 39,6 (130) | 51,8 (170) | 67,1 (220) | 73,2 (240) | Boom m (ft) | 24,4 (80) | 39,6 (130) | 51,8 (170) | 67,1 (220) | 73,2 (240) | |
|--------------------|-----------------|-------------|-------------|-------------|-------------|-------------|------------|------------------|-------------|-------------|-------------|-------------|------------|--|
| Jib 15,2 m (50 ft) | Radius 8,0 (30) | | — (43.3) | | | | | Radius 14,0 (50) | | | | | | |
| | 12,0 (40) | | 18,5 (40.7) | — (43.0) | | | | 18,0 (60) | 12,6 (27.7) | 14,0 (30.7) | | | | |
| | 14,0 (50) | | 17,8 (38.4) | 18,9 (41.1) | 19,5 (42.5) | | | 20,0 (70) | 11,8 (25.1) | 13,3 (28.3) | 14,0 (30.2) | — (31.9) | | |
| | 18,0 (60) | | 16,6 (36.5) | 17,9 (39.4) | 18,6 (41.0) | 18,1 (40.0) | | 24,0 (80) | 10,5 (23.0) | 12,0 (26.4) | 12,9 (28.3) | 13,7 (30.2) | | |
| | 20,0 (70) | | 16,1 (34.8) | 17,4 (37.8) | 18,1 (39.6) | 17,8 (39.0) | | 26,0 (90) | 10,0 (21.3) | 11,5 (24.7) | 12,4 (26.7) | 13,3 (28.7) | | |
| | 26,0 (90) | | 14,7 (31.9) | 16,2 (35.2) | 16,9 (34.4) | 16,0 (32.5) | | 36,0 (120) | | 9,5 (20.9) | 10,4 (22.9) | 10,0 (21.5) | | |
| | 36,0 (120) | | 11,3 (24.5) | 10,6 (23.0) | 10,0 (21.6) | 9,1 (19.7) | | 40,0 (140) | | 9,0 (18.5) | 8,9 (17.5) | 8,2 (15.9) | | |
| | 44,0 (150) | | | | 7,6 (15.7) | 7,0 (14.3) | 6,0 (12.3) | 48,0 (160) | | | 6,2 (13.3) | 5,4 (11.6) | | |
| | 52,0 (180) | | | | | 5,4 — | 4,9 (9.5) | 3,9 (7.5) | 52,0 (180) | | | 5,2 — | 4,4 (8.4) | |
| | 60,0 (200) | | | | | | 3,3 (7.1) | 2,4 (5.1) | 60,0 (200) | | | | 2,8 (5.8) | |
| | 64,0 (220) | | | | | | 2,7 — | 1,8 — | 64,0 (210) | | | | 2,1 (4.7) | |

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

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

Fixed jib load charts

Liftcrane jib capacities - Series 2

Jib No. 134 with 3 810 mm (12'6") strut on boom No. 78

64 410 kg (142,000 lb) Counterweight 19 960 kg (44,000 lb) Crawler frame counterweight

360° Rating kg (lb) × 1000

| | | 5° offset | | | | | 25° offset | | | | | | |
|--------------------|------------------|-------------|-------------|-------------|-------------|------------|------------|------------------|-------------|-------------|-------------|-------------|------------|
| | | Boom m (ft) | 24,4 (80) | 39,6 (130) | 51,8 (170) | 67,1 (220) | 73,2 (240) | Boom m (ft) | 24,4 (80) | 39,6 (130) | 51,8 (170) | 67,1 (220) | 73,2 (240) |
| Jib 18,3 m (60 ft) | Radius 10,0 (35) | — | (35,3) | | | | | Radius 16,0 (55) | — | (25,4) | | | |
| | 14,0 (50) | 15,0 (32,5) | 15,9 (34,5) | 16,4 (35,6) | | | | 18,0 (65) | 11,3 (24,0) | — | (25,2) | | |
| | 18,0 (60) | 14,0 (30,9) | 15,0 (33,1) | 15,6 (34,4) | 15,5 (34,1) | | | 22,0 (75) | 10,0 (21,6) | 11,2 (24,4) | 11,4 (25,1) | — | (25,5) |
| | 24,0 (80) | 12,7 (27,9) | 13,9 (30,7) | 14,6 (32,2) | 14,7 (32,5) | | | 26,0 (90) | 8,9 (19,0) | 10,2 (21,8) | 11,0 (23,6) | 11,3 (24,7) | |
| | 28,0 (100) | 11,9 (25,5) | 13,2 (28,4) | 14,0 (29,4) | 14,1 (27,5) | | | 32,0 (110) | 7,7 (16,4) | 8,9 (19,2) | 9,7 (21,0) | 10,5 (22,8) | |
| | 36,0 (120) | 9,9 (21,5) | 10,7 (23,2) | 10,1 (21,8) | 9,2 (19,9) | | | 36,0 (130) | 7,0 — | 8,3 (17,3) | 9,1 (19,0) | 9,8 (18,9) | |
| | 40,0 (140) | 8,8 — | 9,1 (18,0) | 8,4 (16,6) | 7,5 (14,6) | | | 44,0 (150) | 7,3 (15,8) | 7,5 (15,7) | 7,0 (14,2) | | |
| | 48,0 (160) | — | 6,6 (14,1) | 5,9 (12,7) | 5,0 (10,6) | | | 48,0 (170) | 6,8 — | 6,4 (12,1) | 5,7 (10,4) | | |
| | 56,0 (190) | — | 4,7 | 4,1 (8,4) | 3,2 (6,4) | | | 56,0 (190) | — | 4,5 (9,1) | 3,8 (7,5) | | |
| | 64,0 (210) | — | — | 2,8 (6,2) | 1,9 (4,2) | | | 64,0 (210) | — | — | 2,3 (5,1) | | |
| | 68,0 (230) | — | — | — | — | | | — (220) | — | — | — (4,1) | | |

| | | 24,4 (80) | 39,6 (130) | 51,8 (170) | 67,1 (220) | 73,2 (240) | 24,4 (80) | 39,6 (130) | 51,8 (170) | 67,1 (220) | 73,2 (240) |
|--------------------|------------------|------------|------------|------------|------------|------------|---------------|------------|------------|------------|------------|
| Jib 24,4 m (80 ft) | Radius 10,0 (35) | — (20,6) | | | | | Radius — (65) | — (17,2) | | | |
| | 14,0 (50) | 9,1 (20,1) | 9,3 (20,5) | — (20,6) | | | 20,0 (70) | 7,7 (16,8) | — (17,4) | | |
| | 18,0 (65) | 8,9 (19,6) | 9,1 (20,1) | 9,2 (20,3) | 9,3 (20,5) | | 24,0 (80) | 7,3 (16,0) | 7,6 (16,8) | — (17,2) | |
| | 24,0 (80) | 8,4 (18,4) | 8,9 (19,7) | 9,0 (20,0) | 9,1 (20,2) | | 26,0 (90) | 7,1 (15,2) | 7,4 (16,2) | 7,7 (16,7) | 7,8 (17,1) |
| | 28,0 (100) | 7,8 (16,6) | 8,7 (18,6) | 8,9 (19,6) | 9,0 (19,8) | | 32,0 (110) | 6,0 (12,8) | 6,9 (15,0) | 7,2 (15,8) | 7,4 (16,3) |
| | 36,0 (130) | 6,8 (14,3) | 7,8 (16,5) | 8,3 (17,8) | 8,4 (17,2) | | 36,0 (130) | 5,4 (11,1) | 6,4 (13,2) | 6,9 (14,5) | 7,2 (15,6) |
| | 48,0 (160) | 5,8 (12,7) | 6,6 (14,4) | 6,0 (12,9) | 5,0 (10,8) | | 44,0 (150) | 4,6 — | 5,5 (11,8) | 6,1 (13,1) | 6,7 (14,3) |
| | 56,0 (190) | — | 4,9 (10,2) | 4,2 (8,7) | 3,3 (6,6) | | 48,0 (170) | — | 5,1 (10,7) | 5,7 (12,0) | 5,8 (11,0) |
| | 64,0 (210) | — | — | 2,9 (6,6) | 2,0 (4,5) | | 56,0 (190) | — | 4,6 (9,6) | 4,0 (8,0) | |
| | 68,0 (230) | — | — | 2,4 (4,8) | — | | 64,0 (210) | — | 3,3 (7,3) | 2,4 (5,4) | |
| | 72,0 (240) | — | — | 1,9 (4,0) | — | | 68,0 (230) | — | — | — | |

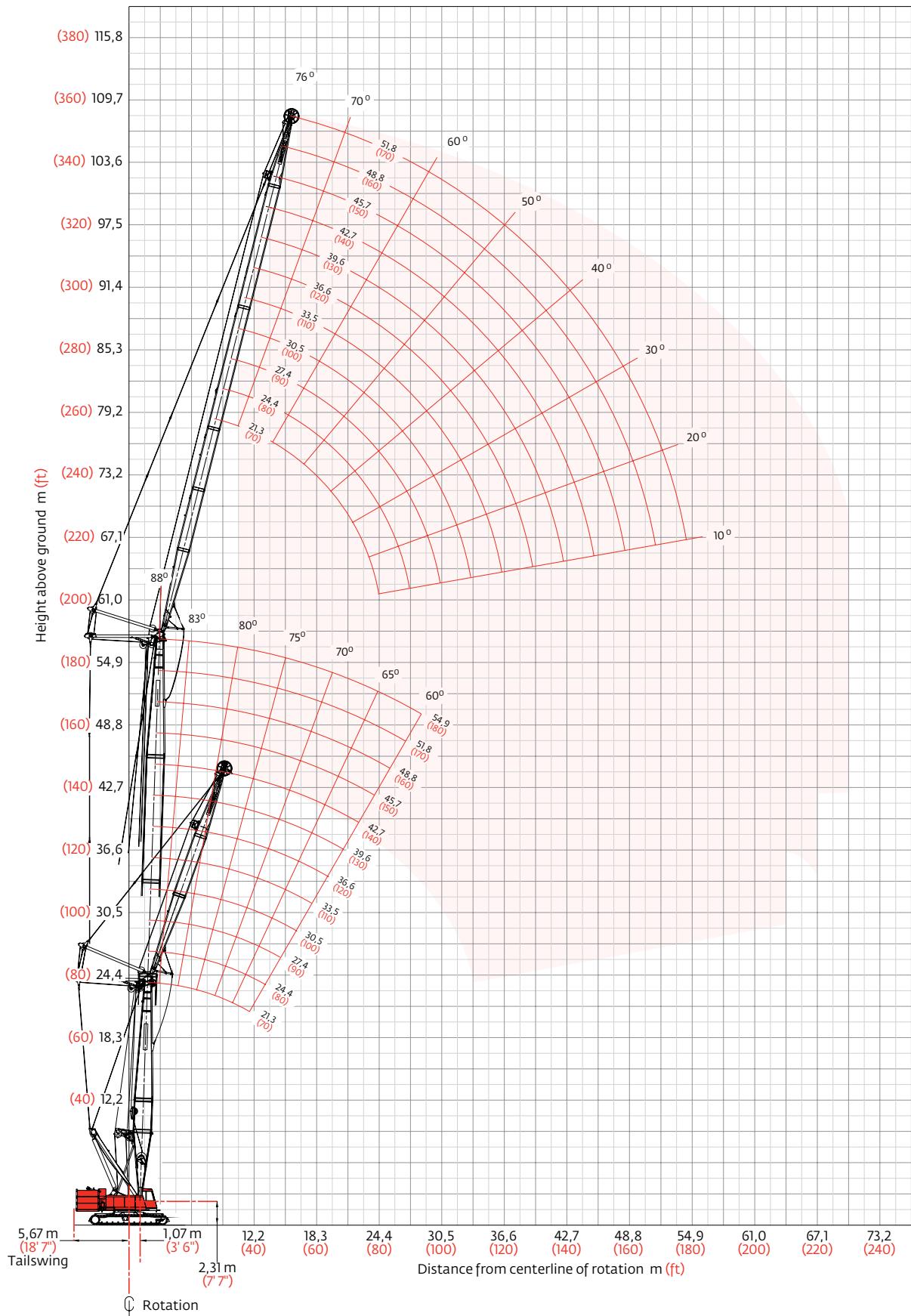
For complete chart, refer to www.cranelibrary.com.

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

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

Luffing jib range diagram

No. 134 fixed jib on No. 78 main boom



Luffing jib load charts

Liftc crane luffing jib capacities - Series 2

Luffing jib No. 139 on boom No. 78

64 410 kg (142,000 lb) Counterweight 19 960 kg (44,000 lb) Carbbody counterweight

360° Rating

kg (lb) x 1000

88° boom angle

| Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) | Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) |
|-----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|-----------------|
| Radius | 9,1 (30) | 47,4 (104.6) | | | | Radius | 9,1 (30) | 12,0 (40) | 33,3 (73.0) | 32,7 (71.9) | 31,6 (69.6) |
| 21,3 m (70 ft) | 47,4 (104.6) | 43,2 (94.7) | 42,9 (94.0) | 41,2 (90.3) | 37,2 (81.4) | — (71.4) | 12,0 (40) | 33,3 (73.0) | 32,7 (71.9) | 31,6 (69.6) | 30,6 (67.4) |
| 30,5 m (100 ft) | — (—) | — (—) | — (—) | — (—) | — (—) | — (—) | 14,0 (50) | 31,1 (66.2) | 31,1 (66.1) | 30,4 (65.4) | 29,6 (63..9) |
| 39,6 m (130 ft) | — (—) | — (—) | — (—) | — (—) | — (—) | — (—) | 20,0 (70) | 23,3 (47.3) | 24,0 (48.6) | 24,6 (49.8) | 24,6 (50.2) |
| 45,7 m (150 ft) | — (—) | — (—) | — (—) | — (—) | — (—) | — (—) | 26,0 (90) | 16,3 (33.4) | 16,7 (34.2) | 17,1 (34.9) | 17,3 (35.4) |
| 54,9 m (180 ft) | — (—) | — (—) | — (—) | — (—) | — (—) | — (—) | 32,0 (110) | 11,3 (—) | 11,7 (—) | 12,2 (—) | 12,4 (—) |

| Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) | Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) |
|-----------------|--------------|---------------|---------------|---------------|---------------|-----------------|--------------|---------------|---------------|---------------|---------------|
| Radius | 9,1 (30) | | | | | Radius | 9,1 (30) | 12,0 (40) | | | |
| 39,6 m (130 ft) | — (—) | — (—) | — (—) | — (—) | — (—) | 21,3 m (70 ft) | — (—) | — (—) | — (—) | — (—) | — (—) |
| 45,7 m (150 ft) | — (—) | — (—) | — (—) | — (—) | — (—) | 30,5 m (100 ft) | — (—) | — (—) | — (—) | — (—) | — (—) |
| 54,9 m (180 ft) | — (—) | — (—) | — (—) | — (—) | — (—) | 39,6 m (130 ft) | — (—) | — (—) | — (—) | — (—) | — (—) |

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

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

Luffing jib load charts

Liftcrane luffing jib capacities - Series 2

Luffing jib No. 139 on boom No. 78

64 410 kg (142,000 lb) Counterweight 19 960 kg (44,000 lb) Carbody counterweight

360° Rating kg (lb) x 1 000

75° boom angle

| Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) |
|------------------|----------------|----------------|----------------|----------------|----------------|
| Radius m (ft) | | | | | |
| 16,0 (55) | — | (71.7) | | | |
| 18,0 (65) | 29,8 (58.2) | — (55.9) | | | |
| 26,0 (90) | 18,8 (38.8) | 18,0 (37.3) | 17,1 (35.3) | 16,4 (33.9) | 15,3 (31.6) |
| 32,0 (110) | | | 13,1 — | 12,6 (26.2) | 11,7 (24.4) |
| 38,0 (130) | | | | | |
| 44,0 (150) | | | | | |
| 50,0 (170) | | | | | |
| 56,0 (190) | | | | | |
| 62,0 (210) | | | | | |
| 66,0 (220) | | | | | |

| Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) |
|------------------|---------------|----------------|----------------|----------------|----------------|
| Radius m (ft) | | | | | |
| 16,0 (55) | | | | | |
| 18,0 (65) | | | | | |
| 26,0 (90) | 26,0 (90) | 18,4 (38.0) | 17,6 (36.3) | 16,6 (34.3) | — (32.8) |
| 32,0 (110) | 32,0 (110) | 14,1 (29.4) | 13,5 (28.1) | 12,7 (26.4) | 12,1 (25.3) |
| 38,0 (130) | 38,0 (130) | | 10,7 (22.4) | 10,1 (21.1) | 9,6 (20.2) |
| 44,0 (150) | 44,0 (150) | | | | 8,9 (18.6) |
| 50,0 (170) | 50,0 (170) | | | | 7,2 (15.1) |
| 56,0 (190) | 56,0 (190) | | | | |
| 62,0 (210) | 62,0 (210) | | | | |
| 66,0 (220) | 66,0 (220) | | | | |

| Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) |
|------------------|----------------|----------------|----------------|----------------|---------------|
| Radius m (ft) | | | | | |
| 16,0 (55) | | | | | |
| 18,0 (65) | | | | | |
| 26,0 (90) | 18,1 (37.4) | — (35.6) | | | |
| 32,0 (110) | 13,8 (28.8) | 13,2 (27.4) | 12,4 (25.7) | 11,8 (24.5) | |
| 38,0 (130) | 11,0 (23.1) | 10,5 (21.9) | 9,8 (20.5) | 9,3 (19.5) | 8,6 (17.8) |
| 44,0 (150) | 8,9 (18.3) | 8,5 (17.9) | 8,0 (16.7) | 7,6 (15.9) | 6,9 (14.5) |
| 50,0 (170) | | | 6,6 — | 6,2 (13.1) | 5,7 (11.9) |
| 56,0 (190) | | | | | |
| 62,0 (210) | | | | | |
| 66,0 (220) | | | | | |

| Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) |
|------------------|----------------|---------------|---------------|---------------|---------------|
| Radius m (ft) | | | | | |
| 16,0 (55) | | | | | |
| 18,0 (65) | | | | | |
| 26,0 (90) | | | | | |
| 32,0 (110) | 10,7 (22.6) | — (24.3) | | | |
| 38,0 (130) | 8,7 (18.2) | 9,5 (19.9) | 9,3 (19.4) | — (18.4) | — (16.7) |
| 44,0 (150) | 6,9 (14.5) | 7,7 (16.0) | 7,5 (15.7) | 7,1 (14.8) | 6,4 (13.3) |
| 50,0 (170) | 5,5 (11.4) | 6,1 (12.8) | 6,1 (12.9) | 5,8 (12.1) | 5,2 (10.8) |
| 56,0 (190) | 4,1 (8.3) | 4,7 (9.5) | 5,1 (10.7) | 4,8 (10.0) | 4,2 (8.7) |
| 62,0 (210) | | | | 4,0 — | 3,3 (6.9) |
| 66,0 (220) | | | | | 2,9 (6.2) |

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

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

Luffing jib load charts

Liftcrane luffing jib capacities - Series 2

Luffing jib No. 139 on boom No. 78

64 410 kg (142,000 lb) Counterweight 19 960 kg (44,000 lb) Carbody counterweight

360° Rating

kg (lb) x 1000

60° boom angle

| Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) |
|-------------|-------------|-------------|------------|------------|------------|
| Radius | | | | | |
| 26,0 (90) | — | (34.7) | | | |
| 30,0 (100) | 14,0 (30.3) | | | | |
| 32,0 (110) | 12,9 (26.7) | 11,6 (24.1) | | | |
| 36,0 (120) | | 9,9 (21.5) | — (18.7) | | |
| 38,0 (130) | | 9,2 — | 8,0 (16.7) | — (14.8) | |
| 44,0 (150) | | | 5,7 (11.9) | — (9.3) | |
| 50,0 (170) | | | | 3,5 — | |
| 56,0 (190) | | | | | |
| 64,0 (210) | | | | | |
| 70,0 (230) | | | | | |

| Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) |
|-------------|-----------|------------|-------------|------------|------------|
| Radius | | | | | |
| 26,0 (90) | — | | | | |
| 30,0 (100) | | — | | | |
| 32,0 (110) | | | — (25.9) | | |
| 36,0 (120) | | | 10,6 (23.1) | | |
| 38,0 (130) | | | 9,9 (20.7) | — (18.3) | |
| 44,0 (150) | | | 7,1 (14.8) | 6,0 (12.5) | — (10.8) |
| 50,0 (170) | | | 4,9 (10.2) | 4,2 (8.7) | — (6.3) |
| 56,0 (190) | | | | | 2,4 (4.9) |
| 64,0 (210) | | | | | |
| 70,0 (230) | | | | | |

70° boom angle

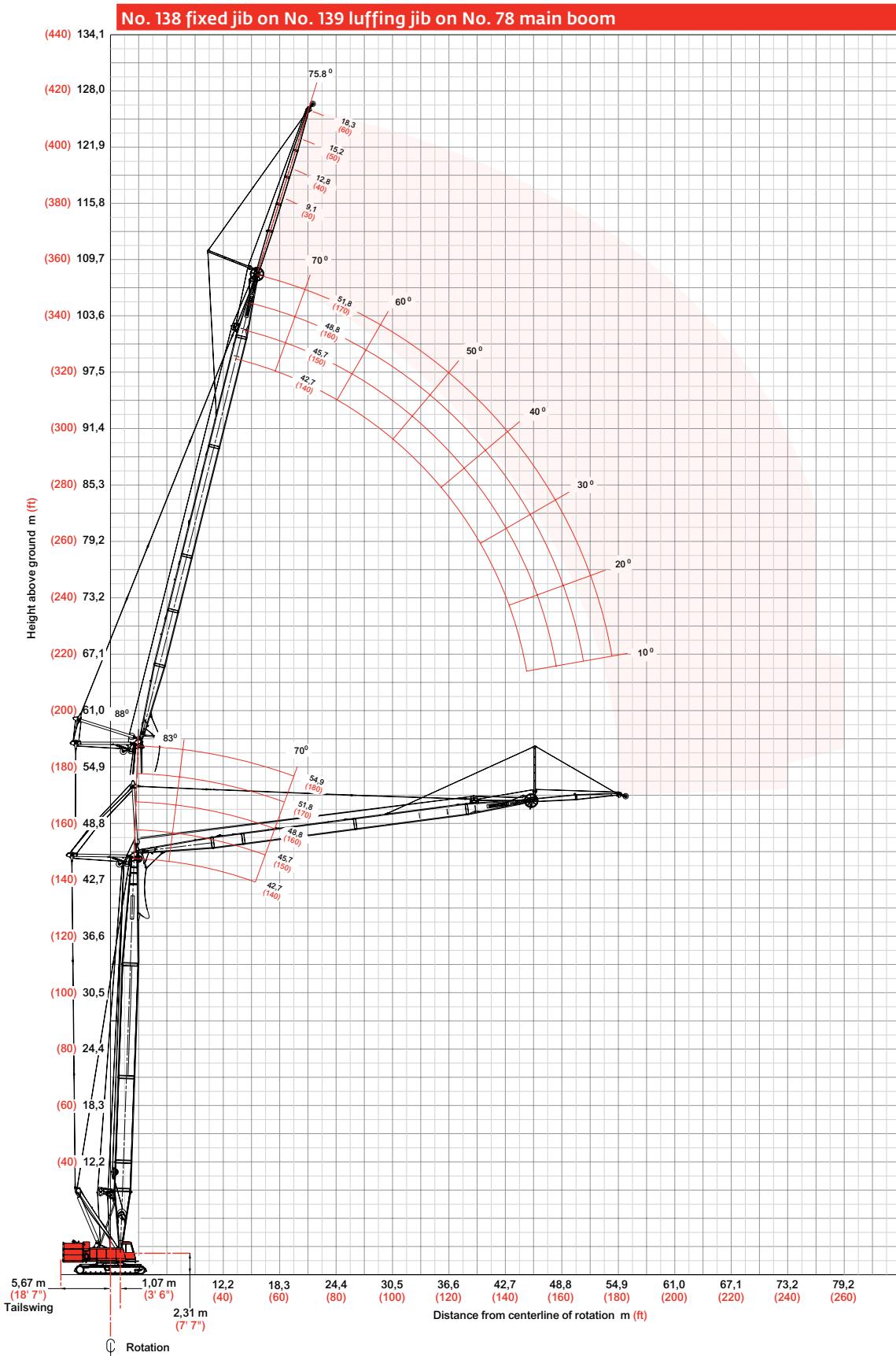
| Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) |
|-------------|-------------|-------------|------------|------------|------------|
| Radius | | | | | |
| 26,0 (90) | — | | | | |
| 30,0 (100) | — (31.2) | | | | |
| 32,0 (110) | 13,2 (27.6) | — (25.6) | | | |
| 36,0 (120) | 11,3 (24.6) | 10,5 (22.8) | — (20.7) | | |
| 38,0 (130) | 10,5 (22.0) | 9,7 (20.4) | 8,8 (18.5) | — (17.1) | |
| 44,0 (150) | 8,6 (18.0) | 7,9 (16.6) | 7,2 (15.0) | 6,6 (13.8) | 5,7 (11.9) |
| 50,0 (170) | | 6,5 — | 5,9 (12.4) | 5,4 (11.3) | 4,6 (9.7) |
| 56,0 (190) | | | | 4,5 — | 3,8 (7.9) |
| 64,0 (210) | | | | | |
| 70,0 (230) | | | | | |

| Boom m (ft) | 21,3 (70) | 30,5 (100) | 39,6 (130) | 45,7 (150) | 54,9 (180) |
|-------------|-----------|------------|------------|------------|------------|
| Radius | | | | | |
| 26,0 (90) | — | | | | |
| 30,0 (100) | | — | | | |
| 32,0 (110) | | | — (21.4) | | |
| 36,0 (120) | | | 9,2 (19.3) | — (19.3) | |
| 38,0 (130) | | | 7,4 (15.5) | 7,4 (15.6) | 6,6 (13.9) |
| 44,0 (150) | | | 5,9 (12.3) | 6,1 (12.8) | 5,4 (11.3) |
| 50,0 (170) | | | 4,5 (9.1) | 5,0 (10.6) | 4,4 (9.3) |
| 56,0 (190) | | | 3,4 (7.6) | 3,0 (6.8) | 4,0 (8.3) |
| 64,0 (210) | | | | | 2,4 (5.4) |
| 70,0 (230) | | | | | 1,9 (4.2) |

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

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

Fixed jib on luffing jib range diagram



Fixed jib on luffing jib load charts

Liftcrane fixed jib on luffing jib capacities - Series 2

Fixed jib No. 138 at 3 degree angle on luffing jib No. 139 on boom No. 78

64 410 kg (142,000 lb) Upperworks counterweight 19 960 kg (44,000 lb) Carbody counterweight

360° Rating

kg (lb) x 1000

88° boom angle

| Luffing jib m (ft) | | 42,7 (140) | | | 45,7 (150) | | | 48,8 (160) | | | 51,8 (170) | | |
|--------------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|
| Boom m (ft) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | |
| Fixed jib length 9,1 m (30 ft) | Radius 16,8 (55) | 12,2 (27.0) | 12,0 (26.6) | | | | | | | | | | |
| | 20,0 (70) | 12,0 (26.2) | 11,8 (25.9) | 11,6 (25.4) | 11,7 (25.7) | 11,2 (24.7) | 10,6 (23.4) | 10,5 (23.0) | 10,1 (22.1) | 9,6 (21.0) | 9,4 (20.6) | 9,0 (19.8) | 8,6 (18.8) |
| | 24,0 (80) | 11,6 (25.7) | 11,5 (25.4) | 11,0 (24.3) | 11,4 (25.1) | 10,9 (24.1) | 10,2 (22.5) | 10,2 (22.5) | 9,8 (21.6) | 9,3 (20.6) | 9,1 (20.1) | 8,7 (19.3) | 8,3 (18.4) |
| | 30,0 (100) | 10,0 (21.9) | 10,0 (22.0) | 9,8 (21.5) | 9,8 (21.5) | 9,8 (21.5) | 9,2 (20.2) | 9,6 (21.0) | 9,2 (20.2) | 8,5 (18.7) | 8,6 (19.0) | 8,3 (18.3) | 7,9 (17.3) |
| | 36,0 (120) | 8,7 (19.1) | 8,8 (19.2) | 8,5 (18.6) | 8,6 (18.8) | 8,6 (18.8) | 8,1 (17.7) | 8,4 (18.5) | 8,2 (18.0) | 7,6 (16.7) | 8,1 (17.8) | 7,7 (16.8) | 7,1 (15.6) |
| | 42,0 (140) | 7,7 (16.9) | 7,8 (17.0) | 7,2 (15.7) | 7,6 (16.7) | 7,6 (16.5) | 7,0 (15.2) | 7,5 (16.5) | 7,2 (15.8) | 6,7 (14.6) | 7,3 (16.0) | 6,8 (15.0) | 6,3 (13.8) |
| | 48,0 (160) | 6,6 (14.2) | 6,5 (14.2) | 6,1 (13.2) | 6,6 (14.1) | 6,4 (14.0) | 6,0 (13.0) | 6,4 (13.9) | 6,3 (13.7) | 5,8 (12.6) | 6,3 (13.6) | 6,0 (13.1) | 5,5 (12.1) |
| | 54,0 (180) | 4,9 (9.7) | 5,0 (10.0) | 5,0 (10.3) | 5,2 (11.1) | 5,2 (11.2) | 5,0 (11.0) | 5,1 (10.9) | 5,1 (11.0) | 5,0 (10.8) | 5,0 (10.7) | 5,0 (10.8) | 4,9 (10.6) |
| | 60,0 (200) | | | | | | | 3,8 (7.2) | 3,8 (7.5) | 3,9 (7.7) | 3,8 (8.2) | 3,9 (8.3) | 3,9 (8.4) |
| | 64,0 (210) | | | | | | | | | 2,7 (6.1) | 2,8 (6.3) | 2,9 (6.5) | |

| Luffing jib m (ft) | | 42,7 (140) | | | 45,7 (150) | | | 48,8 (160) | | | 51,8 (170) | | |
|---------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Boom m (ft) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | |
| Fixed jib length 18,3 m (60 ft) | Radius 20,0 (65) | 7,1 (15.7) | 6,9 (15.4) | 6,8 (15.1) | 6,8 (15.1) | 6,6 (14.8) | | | | | | | |
| | 24,0 (80) | 6,7 (14.8) | 6,6 (14.6) | 6,5 (14.3) | 6,5 (14.3) | 6,3 (14.0) | 6,2 (13.7) | | | | | | |
| | 30,0 (100) | 6,2 (13.6) | 6,1 (13.5) | 6,0 (13.3) | 6,0 (13.2) | 5,9 (13.0) | 5,8 (12.8) | 5,7 (12.7) | 5,6 (12.5) | 5,5 (12.2) | 5,5 (12.1) | 5,4 (11.9) | 5,2 (11.6) |
| | 36,0 (120) | 5,7 (12.6) | 5,6 (12.5) | 5,6 (12.4) | 5,6 (12.3) | 5,5 (12.2) | 5,4 (12.0) | 5,4 (11.9) | 5,3 (11.7) | 5,2 (11.5) | 5,1 (11.4) | 5,0 (11.2) | 4,9 (10.9) |
| | 42,0 (140) | 5,1 (11.2) | 5,2 (11.3) | 5,2 (11.4) | 5,0 (11.0) | 5,1 (11.1) | 5,1 (11.2) | 5,0 (10.9) | 5,0 (10.9) | 4,9 (10.9) | 4,8 (10.6) | 4,8 (10.6) | 4,7 (10.4) |
| | 48,0 (160) | 4,5 (9.9) | 4,6 (10.0) | 4,6 (10.1) | 4,5 (9.8) | 4,5 (9.8) | 4,5 (9.9) | 4,4 (9.6) | 4,4 (9.7) | 4,4 (9.7) | 4,3 (9.4) | 4,3 (9.5) | 4,3 (9.5) |
| | 54,0 (180) | 4,1 (8.9) | 4,1 (9.0) | 4,1 (9.0) | 4,0 (8.8) | 4,0 (8.8) | 4,0 (8.9) | 3,9 (8.7) | 3,9 (8.7) | 4,0 (8.8) | 3,9 (8.5) | 3,9 (8.6) | 3,9 (8.6) |
| | 58,0 (200) | 3,8 (8.1) | 3,8 (8.2) | 3,8 (8.1) | 3,8 (8.0) | 3,8 (8.1) | 3,8 (8.1) | 3,7 (7.9) | 3,7 (7.9) | 3,8 (8.0) | 3,6 (7.8) | 3,6 (7.8) | 3,7 (7.8) |
| | 64,0 (220) | 3,3 — | 3,4 — | 3,4 — | 3,4 (6.4) | 3,4 (6.7) | 3,4 (6.9) | 3,4 (7.3) | 3,4 (7.3) | 3,4 (7.0) | 3,3 (7.1) | 3,4 (7.2) | 3,3 (6.9) |
| | 72,0 (240) | | | | | | | | | 2,4 (4.4) | 2,5 (4.7) | 2,5 (4.8) | |

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

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

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

Fixed jib on luffing jib load charts

Liftcrane fixed jib on luffing jib capacities - Series 2

Fixed jib No. 138 at 3 degree angle on luffing jib No. 139 on boom No. 78

64 410 kg (142,000 lb) Upperworks counterweight 19 960 kg (44,000 lb) Carbody counterweight

360° Rating

kg (lb) x 1000

83° boom angle

| Luffing jib m (ft) | | 42,7 (140) | | | 45,7 (150) | | | 48,8 (160) | | | 51,8 (170) | | |
|--------------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Boom m (ft) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | |
| Fixed jib length 9,1 m (30 ft) | Radius 24,0 (80) | — (26.4) | | | | | | | | | | | |
| | 26,0 (90) | 11,8 (26.0) | 11,7 (25.7) | 11,1 (24.6) | 11,1 (24.5) | — (23.4) | — (22.0) | — (21.7) | — (20.7) | | — (19.3) | | |
| | 30,0 (100) | 11,2 (24.5) | 11,4 (25.0) | 11,0 (24.4) | 10,9 (23.9) | 10,4 (23.1) | 9,9 (21.9) | 9,7 (21.4) | 9,3 (20.5) | 8,8 (19.5) | 8,6 (19.0) | 8,2 (18.2) | 7,9 (17.4) |
| | 36,0 (120) | 9,6 (21.0) | 9,8 (21.5) | 10,0 (21.9) | 9,4 (20.6) | 9,6 (21.0) | 9,7 (21.4) | 9,2 (20.2) | 9,0 (19.9) | 8,6 (19.0) | 8,3 (18.2) | 8,0 (17.6) | 7,6 (16.9) |
| | 42,0 (140) | 8,4 (18.4) | 8,6 (18.8) | 8,2 (17.8) | 8,3 (18.1) | 8,4 (18.5) | 8,1 (17.5) | 8,1 (17.8) | 8,3 (18.1) | 7,9 (17.1) | 7,8 (17.2) | 7,7 (17.0) | 7,4 (16.4) |
| | 48,0 (160) | 7,5 (16.4) | 7,1 (15.4) | 6,6 (14.3) | 7,4 (16.2) | 7,0 (15.2) | 6,5 (14.1) | 7,3 (15.8) | 6,8 (14.7) | 6,3 (13.7) | 7,0 (15.4) | 6,7 (14.4) | 6,2 (13.3) |
| | 54,0 (180) | 6,1 (13.0) | 5,9 (12.6) | 5,4 (11.7) | 6,1 (13.0) | 5,8 (12.4) | 5,3 (11.5) | 5,9 (12.7) | 5,5 (12.0) | 5,1 (11.0) | 5,8 (12.5) | 5,4 (11.6) | 5,0 (10.7) |
| | 60,0 (200) | | | | 4,7 (10.1) | 4,7 (10.2) | 4,4 (9.4) | 4,7 (10.0) | 4,5 (9.8) | 4,1 (8.9) | 4,6 (9.8) | 4,4 (9.4) | 4,0 (8.6) |
| | 62,0 (210) | | | | | 4,3 — | 4,1 — | 4,3 (8.7) | 4,2 (8.8) | 3,9 (8.1) | 4,2 (8.6) | 4,1 (8.5) | 3,7 (7.7) |
| | 64,0 (220) | | | | | | 3,9 — | 3,9 — | 3,6 — | 3,9 (7.4) | 3,8 (7.6) | 3,4 (6.9) | |

| Luffing jib m (ft) | | 42,7 (140) | | | 45,7 (150) | | | 48,8 (160) | | | 51,8 (170) | | |
|---------------------------------|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Boom m (ft) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | |
| Fixed jib length 18,3 m (60 ft) | Radius 28,0 (95) | — (14.3) | — (14.1) | | — (13.8) | | | | | | | | |
| | 32,0 (105) | 6,2 (13.8) | 6,2 (13.7) | 6,1 (13.5) | 6,0 (13.3) | 5,9 (13.2) | 5,8 (12.9) | 5,7 (12.7) | 5,6 (12.5) | 5,5 (12.2) | 5,4 (12.0) | 5,3 (11.8) | |
| | 36,0 (120) | 5,9 (13.1) | 5,9 (13.0) | 5,8 (12.9) | 5,7 (12.7) | 5,7 (12.6) | 5,6 (12.4) | 5,5 (12.2) | 5,4 (12.0) | 5,3 (11.8) | 5,2 (11.6) | 5,1 (11.4) | 5,0 (11.1) |
| | 42,0 (140) | 5,5 (12.2) | 5,5 (12.2) | 5,5 (12.1) | 5,4 (11.9) | 5,3 (11.8) | 5,3 (11.7) | 5,2 (11.5) | 5,1 (11.4) | 5,0 (11.2) | 5,0 (11.0) | 4,9 (10.8) | 4,8 (10.6) |
| | 48,0 (160) | 4,9 (10.8) | 5,0 (11.0) | 5,1 (11.3) | 4,9 (10.6) | 5,0 (10.9) | 5,0 (11.1) | 4,8 (10.5) | 4,8 (10.7) | 4,8 (10.7) | 4,7 (10.2) | 4,7 (10.3) | 4,6 (10.2) |
| | 54,0 (180) | 4,4 (9.6) | 4,5 (9.8) | 4,6 (10.0) | 4,3 (9.5) | 4,4 (9.7) | 4,5 (9.8) | 4,2 (9.3) | 4,3 (9.5) | 4,4 (9.7) | 4,2 (9.2) | 4,3 (9.3) | 4,3 (9.5) |
| | 62,0 (200) | 3,8 (8.7) | 3,9 (8.8) | 4,0 (9.0) | 3,8 (8.6) | 3,8 (8.7) | 3,9 (8.9) | 3,7 (8.4) | 3,8 (8.6) | 3,8 (8.7) | 3,7 (8.3) | 3,7 (8.4) | 3,7 (8.5) |
| | 68,0 (220) | — (8.0) | 3,6 (8.1) | 3,6 (8.2) | 3,5 (7.8) | 3,5 (7.9) | 3,5 (8.1) | 3,4 (7.7) | 3,5 (7.8) | 3,3 (7.6) | 3,3 (7.6) | 3,4 (7.7) | 3,2 (7.3) |
| | 72,0 (240) | | | | | | | 3,2 (6.7) | 3,2 (6.9) | 2,9 (6.2) | 3,1 (6.5) | 3,0 (6.6) | 2,7 (5.8) |
| | 76,0 (250) | | | | | | | | | 2,5 (5.6) | 2,6 (5.9) | 2,3 (5.2) | |

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

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

Fixed jib on luffing jib load charts

Liftcrane fixed jib on luffing jib capacities - Series 2

Fixed jib No. 138 at 3 degree angle on luffing jib No. 139 on boom No. 78

64 410 kg (142,000 lb) Upperworks counterweight 19 960 kg (44,000 lb) Carbody counterweight

360° Rating

kg (lb) x 1000

70° boom angle

| Luffing jib m (ft) | 42,7 (140) | | | 45,7 (150) | | | 48,8 (160) | | | 51,8 (170) | | | |
|--------------------------------|--------------------------------|--|---------------|--|---|---------------|--|---|--|------------------------|---------------|---------------|---|
| Boom m (ft) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | |
| Fixed jib length 9,1 m (30 ft) | Radius (150) — (13.6) | — | — | — | — | — | — | — | — | — | — | — | |
| | 48,0 (160) 5,6 (12.2) | 5,1 (11.0) | — (9.3) | 5,6 (12.1) | — (10.9) | — | — (11.7) | — | — | — (10.3) | — | — (9.1) | |
| | 50,0 (170) 5,3 (11.1) | 4,8 (10.0) | 4,0 (8.5) | 5,2 (10.9) | 4,7 (9.8) | — (8.2) | 5,0 (10.6) | — (9.4) | — | — (10.3) | — | — (9.1) | |
| | 54,0 (180) 4,6 (10.0) | 4,2 (9.0) | 3,6 (7.8) | 4,6 (9.9) | 4,1 (8.8) | 3,5 (7.5) | 4,4 (9.5) | 3,9 (8.5) | 3,2 (7.0) | 4,2 (9.2) | 3,8 (8.2) | — (6.7) | |
| | 56,0 (190) 4,3 (9.1) | 3,9 (8.1) | 3,4 (7.0) | 4,3 (9.0) | 3,8 (8.0) | 3,2 (6.9) | 4,1 (8.6) | 3,6 (7.6) | 3,0 (6.3) | 4,0 (8.3) | 3,5 (7.3) | 2,9 (6.1) | |
| | 60,0 (200) 3,8 (8.3) | 3,4 (7.3) | 2,9 (6.3) | 3,8 (8.2) | 3,3 (7.2) | 2,8 (6.2) | 3,6 (7.8) | 3,1 (6.8) | 2,6 (5.7) | 3,5 (7.5) | 3,0 (6.5) | 2,5 (5.4) | |
| | 64,0 (210) 3,4 (7.5) | 2,9 (6.6) | 2,5 (5.7) | 3,3 (7.4) | 2,9 (6.5) | 2,4 (5.5) | 3,1 (7.0) | 2,7 (6.1) | 2,3 (5.1) | 3,0 (6.8) | 2,6 (5.9) | 2,1 (4.8) | |
| | 68,0 (230) — (5.4) | 2,6 (4.5) | 2,2 (4.5) | 2,9 (6.1) | 2,5 (5.3) | 2,1 (4.4) | 2,7 (5.7) | 2,4 (4.9) | 2,0 (4.0) | 2,6 (5.5) | 2,2 (4.7) | — (1.8) | |
| | 72,0 (240) — (5.4) | — <td>—</td> <td>2,2 (4.7)</td> <td>—<td>—</td><td>2,4 (5.1)</td><td>2,0 (4.4)</td><td>—<td>2,3 (4.9)</td><td>1,9 (4.1)</td><td>—<td>—</td></td></td></td> | — | 2,2 (4.7) | — <td>—</td> <td>2,4 (5.1)</td> <td>2,0 (4.4)</td> <td>—<td>2,3 (4.9)</td><td>1,9 (4.1)</td><td>—<td>—</td></td></td> | — | 2,4 (5.1) | 2,0 (4.4) | — <td>2,3 (4.9)</td> <td>1,9 (4.1)</td> <td>—<td>—</td></td> | 2,3 (4.9) | 1,9 (4.1) | — <td>—</td> | — |
| | 76,0 (250) — (4.4) | — <td>—</td> <td>—<td>—<td>—</td><td>—<td>—<td>2,0 (4.4)</td><td>—<td>—<td>—</td></td></td></td></td></td></td> | — | — <td>—<td>—</td><td>—<td>—<td>2,0 (4.4)</td><td>—<td>—<td>—</td></td></td></td></td></td> | — <td>—</td> <td>—<td>—<td>2,0 (4.4)</td><td>—<td>—<td>—</td></td></td></td></td> | — | — <td>—<td>2,0 (4.4)</td><td>—<td>—<td>—</td></td></td></td> | — <td>2,0 (4.4)</td> <td>—<td>—<td>—</td></td></td> | 2,0 (4.4) | — <td>—<td>—</td></td> | — <td>—</td> | — | |

| Luffing jib m (ft) | 42,7 (140) | | | 45,7 (150) | | | 48,8 (160) | | | 51,8 (170) | | |
|---------------------------------|--------------------------------|---|---------------|--|---|---------------|---|---------------|----------------------------------|------------------------|---------------|---------------|
| Boom m (ft) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) | 42,7 (140) | 48,8 (160) | 54,9 (180) |
| Fixed jib length 18,3 m (60 ft) | Radius (165) — (11.8) | — | — | — | — | — | — | — | — | — | — | — |
| | 52,0 (175) 5,0 (10.7) | 4,5 (9.6) | — | 5,0 (10.5) | — (9.4) | — | — (10.2) | — | — | — | — | — |
| | 56,0 (190) 4,4 (9.3) | 3,9 (8.3) | 3,3 (6.9) | 4,4 (9.2) | 3,9 (8.1) | — (6.6) | 4,2 (8.8) | — (7.7) | — (6.1) | 4,0 (8.5) | — (7.4) | — (6.1) |
| | 60,0 (200) 3,9 (8.5) | 3,5 (7.5) | 2,9 (6.3) | 3,8 (8.3) | 3,4 (7.4) | 2,8 (6.1) | 3,7 (8.0) | 3,2 (7.0) | 2,5 (5.6) | 3,6 (7.7) | 3,1 (6.7) | 2,4 (5.3) |
| | 62,0 (210) 3,7 (7.8) | 3,3 (6.8) | 2,7 (5.8) | 3,6 (7.6) | 3,2 (6.7) | 2,6 (5.5) | 3,5 (7.2) | 3,0 (6.3) | 2,4 (5.1) | 3,3 (7.0) | 2,9 (6.0) | 2,3 (4.8) |
| | 64,0 (230) 3,5 (6.5) | 3,0 (5.6) | 2,6 (4.7) | 3,4 (6.3) | 3,0 (5.5) | 2,4 (4.5) | 3,2 (6.0) | 2,8 (5.1) | 2,3 (4.1) | 3,1 (5.7) | 2,7 (4.8) | 2,1 (2.1) |
| | 68,0 (240) 3,1 (5.9) | 2,7 (5.1) | 2,2 (4.2) | 3,0 (5.8) | 2,6 (5.0) | 2,2 (4.0) | 2,9 (5.4) | 2,5 (4.6) | — (1.9) | 2,7 (5.1) | 2,3 (4.3) | — (1.8) |
| | 72,0 (250) 2,7 (5.4) | 2,4 (4.6) | — (—) | 2,6 (5.2) | 2,3 (4.5) | — (—) | 2,5 (4.9) | 2,1 (4.1) | — (—) | 2,4 (4.6) | — (—) | 2,0 (—) |
| | 76,0 (260) 2,4 (4.1) | 2,1 (4.1) | — (—) | 2,3 (4.7) | 2,0 (4.0) | — (—) | 2,2 (4.4) | 1,8 (—) | — (—) | 2,1 (4.2) | — (—) | — (—) |
| | 80,0 (270) — (4.0) | — <td>—</td> <td>—<td>—<td>—</td><td>—<td>1,9 (4.0)</td><td>—<td>—<td>—<td>—</td></td></td></td></td></td></td> | — | — <td>—<td>—</td><td>—<td>1,9 (4.0)</td><td>—<td>—<td>—<td>—</td></td></td></td></td></td> | — <td>—</td> <td>—<td>1,9 (4.0)</td><td>—<td>—<td>—<td>—</td></td></td></td></td> | — | — <td>1,9 (4.0)</td> <td>—<td>—<td>—<td>—</td></td></td></td> | 1,9 (4.0) | — <td>—<td>—<td>—</td></td></td> | — <td>—<td>—</td></td> | — <td>—</td> | — |

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

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

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

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

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- Crane Selection and Planning Software (CompuCRANE®)
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Available from your Authorized Manitowoc Cranes Distributor, these videos are available in NTSC, PAL, SECAM, and DVD formats.

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

Crane Care Package

Manitowoc has assembled all of the available literature, CD's and videos listed above plus several Manitowoc premiums into one complete Crane Care Package.

Notes

Notes

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