MANITOWOC®



Features

- 165 t capacity
- 762 m-kg maximum load moment
- 84 m main boom
- Max boom + fixed jib combination: 69 m + 24,4 m
- Max boom + luffing jib combination: 51 m + 51,8 m
- 231 kW Tier 4 Final engine
- 242 kW Tier 3 engine

MANITOWOC MLC165-1

The MLC165-1 provides a broad range of features that will undoubtedly be translated into jobsite benefits that increase productivity and save money.

Features

Crawler Connection

Each crawler is FACT™ aligned and securely fastened to the carbody with hydraulic powered pins for fast, easy assembly. Hydraulic connections utilize screw style quick disconnect couplers.

> Counterweight

Single part number for upperworks counterweight can be stacked in any order and raised into position using optional self-assembly counterweight raising cylinders. Counterweight tray is retained in position using hydraulic powered pins with incorporated locking system for quick and hassel-free installation.

> Asset Utilization

The MLC165-1 is able to be equipped with attachments that are already in common in the field. The No. 134 fixed jib has been used on the 777, 888, 999, 14000 and MLC165. In addition the No. 135 luffing jib has been used on the 888, 999, 14000 and MLC165.









> CraneSTAR is an exclusive and innovative crane asset management system

that helps improve your profitability and reduce costs by remotely monitoring critical crane data. Visit www.cranestar.com for more information.

Jobsite benefits

Increased productivity

The MLC165-1 delivers superior performance to finish the job quicker.

- 12 500 kg single line pull and 135 m/min maximum line speed
- 2,5 rpm swing speed
- Travel, swing and counter-rotate with full rated capacity

Rugged durability and ease of service

The MLC165-1 comes equipped with numerous upgrades to spend less time performing maintenance.

- Individual function hour tracking to optimize service intervals
- Remote mounted filters for easy access inside enclosures
- Sealed intermediate rollers eliminating the need for greasing

Easy and quick assembly

The MLC165-1 helps you spend less time on the truck and more time on the job.

- Raise full boom and luffing jib combinations without assist
- Self-erect mast cylinder eliminates need to reeve self assembly block
- Ability to completely self assemble machine without an assist crane





















Manitowoc Crane Care when you need it.

The assurance of the world's most advanced crane service and support to get you back to work fast.

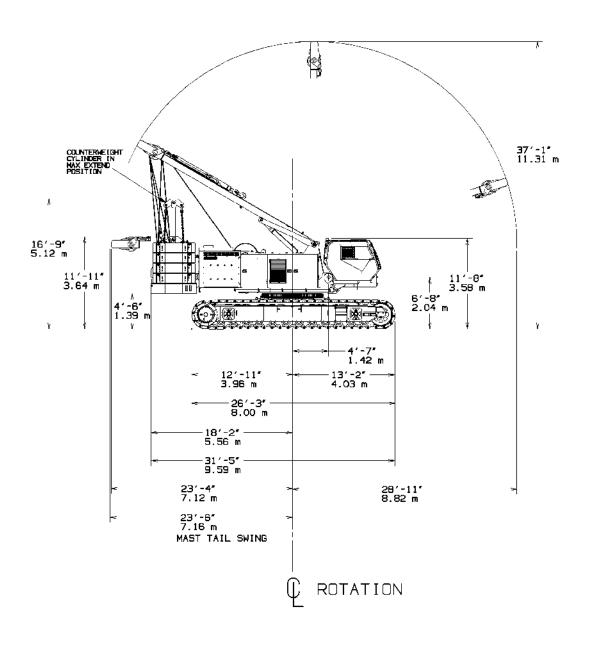


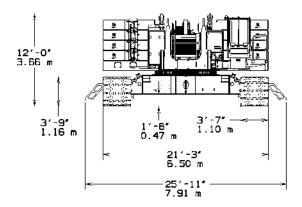
Manitowoc Finance helps you get right to work generating profits for your business.

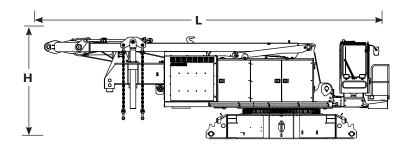
Financial tools that help you capitalize on opportunity with solutions that fit your needs.

Contents

| Outline dimensions | 5 |
|--|------|
| ransport data | 11 |
| Performance data | . 12 |
| Soom combinations | . 14 |
| Vorking range/load charts – Main boom | . 16 |
| Vorking range/ load charts – Fixed jib | . 18 |
| Vorking range/ load charts – Luffing jib | . 21 |
| pecifications | . 23 |
| vmbols alossary | 25 |

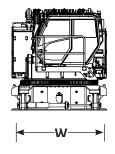




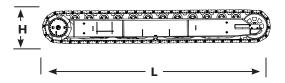


| Basic crane | |
|---|-----------|
| Length | 10,5 m |
| Width | 3,0 m |
| Height | 3,2 m |
| Weight | 34 900 kg |
| Note: Weight includes carbody authorizonle with two | |

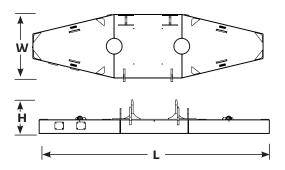
Note: Weight includes carbody, upperworks with two full power drums, operator's cab, mast with self-erect cylinder, boom-hoist wire rope, maximum hoist and whip lines on drums, optional self-assembly jacks, full hydraulic fluid reservoir, and half tank of fuel.



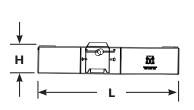


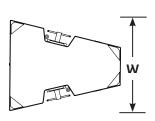


| Crawlers | |
|----------|-----------|
| Length | 8,0 m |
| Width | 1,3 m |
| Height | 1,1 m |
| Weight | 14 900 kg |

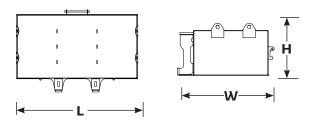


| Counterweight tray | |
|--------------------|-----------|
| Length | 6,5 m |
| Width | 1,9 m |
| Height | 0,9 m |
| Weight | 16 000 kg |
| | |

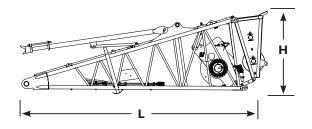




| Upper side counterweigh Series 1 Series 2 | x 6 x 8 |
|---|------------|
| Length | 2,0 m |
| Width | 1,7 m |
| Height | 0,4 m |
| Weight | 5000 kg |

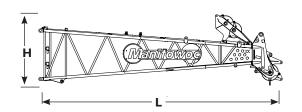


| Lower carbody counterweight | |
|-----------------------------|------------|
| Series 2 | x 2 |
| Length | 2,5 m |
| Width | 1,7 m |
| Height | 0,9 m |
| Weight | 10 200 kg |

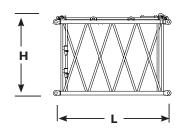


| 6,0 m No. 74A boom butt, wire rope guide and boom stop | |
|---|---------|
| Length | 6,9 m |
| Width | 2,1 m |
| Height | 2,3 m |
| Weight | 5000 kg |

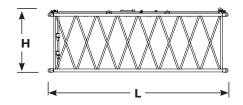
Note: without aux drum –2 700 kg



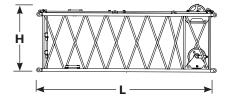
| 9,0 m No. 74A boom top, wire rope guide and straps | |
|---|---------|
| Length | 9,6 m |
| Width | 2,0 m |
| Height | 2,6 m |
| Weight | 2500 kg |



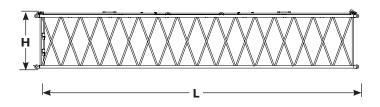
| 3,0 m No. 74A boom insert and straps | |
|--------------------------------------|--------|
| Length | 3,2 m |
| Width | 2,0 m |
| Height | 2,2 m |
| Weight | 600 kg |



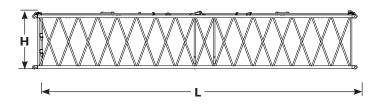
| 6,0 m No. 74A boom insert and straps | |
|--------------------------------------|---------|
| Length | 6,2 m |
| Width | 2,0 m |
| Height | 2,2 m |
| Weight | 1000 kg |



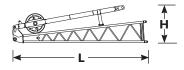
| 6,0 m No. 74A boom insert with sheaves and straps | |
|---|---------|
| Length | 6,2 m |
| Width | 2,0 m |
| Height | 2,4 m |
| Weight | 1400 kg |



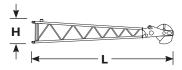
| 12,0 m No. 74A boom insert and straps | |
|---------------------------------------|---------|
| Length | 12,2 m |
| Width | 2,0 m |
| Height | 2,2 m |
| Weight | 1700 kg |



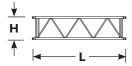
| 12,0 m No. 74A boom insert with backstay lugs and straps | | |
|--|---------|--|
| Length | 12,2 m | |
| Width | 2,0 m | |
| Height | 2,2 m | |
| Weight | 1800 kg | |



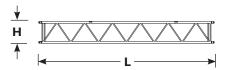
| 4,6 m No. 134 jib butt, strut and stop | | |
|--|--------|--|
| Length | 4,7 m | |
| Width | 0,9 m | |
| Height | 1,3 m | |
| Weight | 600 kg | |



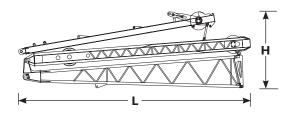
| 4,6 m No. 134 jib top and pendants | | |
|------------------------------------|--------|--|
| Length | 5,0 m | |
| Width | 0,8 m | |
| Height | 0,8 m | |
| Weight | 500 kg | |



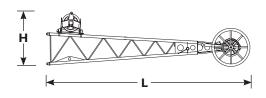
| 3,0 m No. 134 jib insert and pendants | | |
|---------------------------------------|--------|--|
| Length | 3,1 m | |
| Width | 0,8 m | |
| Height | 0,8 m | |
| Weight | 200 kg | |



| 6,1 m No. 134 jib insert a pendants | nd |
|--|--------|
| Length | 6,2 m |
| Width | 0,8 m |
| Height | 0,8 m |
| Weight | 300 kg |

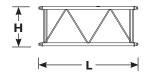


| 8,2 m No. 135 luf ng jib t struts | outt and |
|--------------------------------------|----------|
| Length | 8,8 m |
| Width | 1,6 m |
| Height | 3,0 m |
| Weight | 4500 kg |

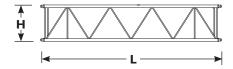


| 7,0 m No. 135 luf and pendants | ng jib top, roller |
|-----------------------------------|--------------------|
| Length | 7,8 m |
| Width | 1,5 m |
| Height | 2,0 m |
| Weight | 2100 kg |
| | |

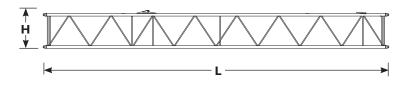
Note: Includes wire rope guide.



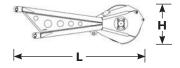
| 3,0 m No. 135 luf ng jib pendants | insert and |
|--------------------------------------|------------|
| Length | 3,1 m |
| Width | 1,5 m |
| Height | 1,3 m |
| Weight | 400 kg |



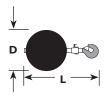
| 6,1 m No. 135 luf pendants | ng jib insert and |
|-------------------------------|-------------------|
| Length | 6,2 m |
| Width | 1,5 m |
| Height | 1,3 m |
| Weight | 700 kg |



| 12,2 m No. 135 luf ng jib insert with backstays and pendants | | |
|--|---------|--|
| Length | 12,3 m | |
| Width | 1,5 m | |
| Height | 1,3 m | |
| Weight | 1300 kg | |



| No. 74A upper boom point | | |
|--------------------------|--------|--|
| Length | 2,6 m | |
| Width | 0,4 m | |
| Height | 0,8 m | |
| Weight | 500 kg | |



| Weight ball | | | |
|-----------------|--------|----------|-------|
| Capacity/Swivel | 13,6 t | Diameter | 1,1 m |
| Weight | 600 kg | Length | 0,5 m |

Transport data

| Load summary | | | | | | | | | | |
|---|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Item | 84 m No. 74A boom + 24,4 m No. 134 fixed jib Series 2 counterweight Quantity on trailer load # (Does not include blocking, strapping, etc.) | | | | | | | | | |
| | Qty | kg | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Basic Crane | 1 | 34 900 | 1 | _ | _ | _ | _ | _ | _ | _ |
| Crawler | 2 | 14 900 | _ | 1 | 1 | _ | _ | _ | _ | _ |
| Counterweight Tray | 1 | 16 000 | _ | _ | _ | _ | _ | _ | _ | 1 |
| Side Counterweight | 8 | 5000 | _ | _ | _ | 1 | 1 | 3 | 3 | _ |
| Carbody Counterweight | 2 | 10 200 | _ | _ | _ | 1 | 1 | _ | _ | _ |
| 6 m No. 74A Boom Butt with aux drum | 1 | 5000 | _ | _ | _ | _ | 1 | _ | _ | _ |
| 9 m No. 74A Boom Top | 1 | 2500 | _ | _ | _ | 1 | _ | _ | _ | _ |
| 3 m No. 74A Boom Insert | 1 | 600 | _ | _ | _ | _ | _ | _ | _ | 1 |
| 6 m No. 74A Boom Insert | 1 | 1000 | _ | 1 | _ | _ | _ | _ | _ | _ |
| 6 m No. 74A Boom Insert with Sheaves | 1 | 1400 | _ | _ | 1 | _ | _ | _ | _ | _ |
| 12 m No. 74A Boom Insert | 2 | 1700 | _ | _ | _ | _ | _ | 1 | 1 | |
| Miscellaneous | 1 | 2300 | _ | _ | _ | _ | 1 | _ | _ | _ |
| Payload for each trailer (kg) | | | 34 900 | 15 900 | 16 300 | 17 700 | 22 500 | 16 700 | 16 700 | 16 600 |

Performance data

| Main and whip drum – 12 500 kg | | | | | | | |
|--------------------------------|-------------------------|-----|-----|-----|-----|-----|--|
| | Single line speed m/min | | | | | | |
| Single line pull kg | Layer | | | | | | |
| punkg | 1 | 2 | 3 | 4 | 5 | 6 | |
| 0 | 96 | 103 | 111 | 119 | 127 | 135 | |
| 12 500 | 67 | 72 | 78 | 83 | 89 | 95 | |

| Luf ng hoist auxiliary drum – 9070 kg | | | | | | | | |
|---------------------------------------|-------------------------|----|----|----|----|----|----|----|
| | Single line speed m/min | | | | | | | |
| Single line pull kg | Layer | | | | | | | |
| , , | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9070 | 41 | 44 | 48 | 51 | 55 | 58 | 62 | 65 |

| Hoist reeving for main load block |
|-----------------------------------|
| 26 mm wire rope |
| No. 74A boom |

| No Dorte of Line | Maximum Load | | | | | |
|-------------------|--------------|--|--|--|--|--|
| No. Parts of Line | kg | | | | | |
| 1 | 12 500 | | | | | |
| 2 | 25 000 | | | | | |
| 3 | 37 500 | | | | | |
| 4 | 50 000 | | | | | |
| 5 | 62 500 | | | | | |
| 6 | 75 000 | | | | | |
| 7 | 87 500 | | | | | |
| 8 | 100 000 | | | | | |
| 9 | 112 500 | | | | | |
| 10 | 125 000 | | | | | |
| 11 | 137 500 | | | | | |
| 12 | 150 000 | | | | | |
| 13 | 162 500 | | | | | |
| 14 | 165 000 | | | | | |

| Wire rope lengths | |
|-----------------------------------|--|
| No. 74A boom | |
| - or - | |
| Fixed jib No. 134 on No. 74A boom | |

| Fixed Jib No. 134 off No. 74A booff | | | | | | | |
|-------------------------------------|------------------------|---------------------|---------------------------|-------------|--|--|--|
| Boom or boom and jib length | Whip (front or auxi | line liary drum) | Hoist line (rear drum) | | | | |
| | 1 part | 2 part | | Total parts | | | |
| m | m | m | m | of line | | | |
| 15,0 | 45 | 65 | 250 | 14 | | | |
| 18,0 | 55 | 75 | 275 | 13 | | | |
| 21,0 | 60 | 85 | 295 | 12 | | | |
| 24,0 | 65 | 90 | 310 | 11 | | | |
| 27,0 | 70 | 100 | 320 | 10 | | | |
| 30,0 | 75 | 110 | 320 | 9 | | | |
| 33,0 | 85 | 120 | 350 | 9 | | | |
| 36,0 | 90 | 130 | 345 | 8 | | | |
| 39,0 | 95 | 135 | 370 | 8 | | | |
| 42,0 | 100 | 145 | 355 | 7 | | | |
| 45,0 | 105 | 155 | 380 | 7 | | | |
| 48,0 | 115 | 165 | 355 | 6 | | | |
| 51,0 | 120 | 175 | 375 | 6 | | | |
| 54,0 | 125 | 180 | 340 | 5 | | | |
| 57,0 | 130 | 190 | 360 | 5 | | | |
| 60,0 | 135 | 200 | 380 | 5 | | | |
| 63,0 | 145 | 210 | 330 | 4 | | | |
| 66,0 | 150 | 220 | 345 | 4 | | | |
| 69,0 | 155 | 225 | 290 | 3 | | | |
| 72,0 | 160 | 235 | 305 | 3 | | | |
| 75,0 | 165 | 245 | 315 | 3 | | | |
| 78,0 | 175 | 255 | 325 | 3 | | | |
| 81,0 | 180 | 260 | 340 | 3 | | | |
| 84,0 | 185 | 270 | 265 | 2 | | | |
| 87,0 | 190 | 275 | _ | _ | | | |
| 90,0 | 195 | 280 | _ | _ | | | |
| 93,0 | 200 | _ | _ | _ | | | |

NOTE: Hoist 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 wire rope length on auxiliary drum when used as Whip Line is 190 m. When auxiliary drum is used as Luffing Jib Hoist, wire rope length required on drum is 210 m. If auxiliary drum is used as Whip Line while equipped with 210 m rope length, hoisting distance and line pull will be limited. Consult factory for further information.

Performance data

Wire rope lengths No. 135 luf ng jib on No. 74A boom

| Luf ng jib hoist line | | | | | | |
|-----------------------|---|--|--|--|--|--|
| Hoist line | Maximum required parts of line | | | | | |
| m | | | | | | |
| 259 | 4 | | | | | |
| 274 | 4 | | | | | |
| 290 | 4 | | | | | |
| 305 | 4 | | | | | |
| 305 | 4 | | | | | |
| 320 | 4 | | | | | |
| 320 | 4 | | | | | |
| 335 | 4 | | | | | |
| 335 | 3 | | | | | |
| 335 | 3 | | | | | |
| 351 | 3 | | | | | |
| | Hoist line m 259 274 290 305 305 320 320 325 335 335 | | | | | |

^{*}Hoist line lengths given in table include all luffing jib lengths.

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 multiply by added travel distance. Hoisting distance or line pull may be limited when block travel below ground is required.

Wire rope specifications 5:1 Safety Factor No. 74A boom - or -

| NO. 13 | 4 пхеа | JID on | ı No. | /4 A | boon |
|---------------|--------|--------|-------|-------------|------|
| | | | | | |

| Rotation resistant Wire rope | | | | | | | |
|---------------------------------|--------------------|-------------------|------------------|--|--|--|--|
| Drum / Rope size | Front end 26 mm | Rear end 26 mm | Aux end 26 mm | | | | |
| Max load per line, kg | 17500 | | 9 070 | | | | |
| Approx weight, kg/m 3,41 | | 3,41 | 3,41 | | | | |

Drum capacities – wire rope

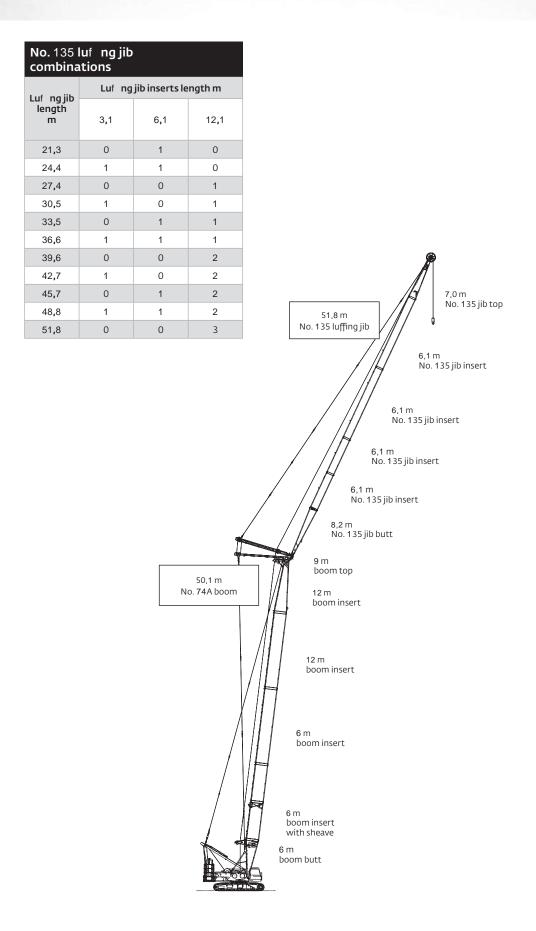
| | Maximum length | | | | |
|------------------------------------|-------------------|-------------------|--|--|--|
| Front or rear | Operational | Storage | | | |
| grooved drum 26 mm wire rope | 374 m 6 layers | 457 m 7 layers | | | |
| Auxiliary drum 26 mm wire rope | 164 m 7 layers | 233 m 9 layers | | | |
| Boom hoist drum 22 mm wire rope | 170 m 7 layers | _ | | | |

 $For \ specific \ configurations \ refer \ to \ www.cranelibrary.com.$

Boom combinations

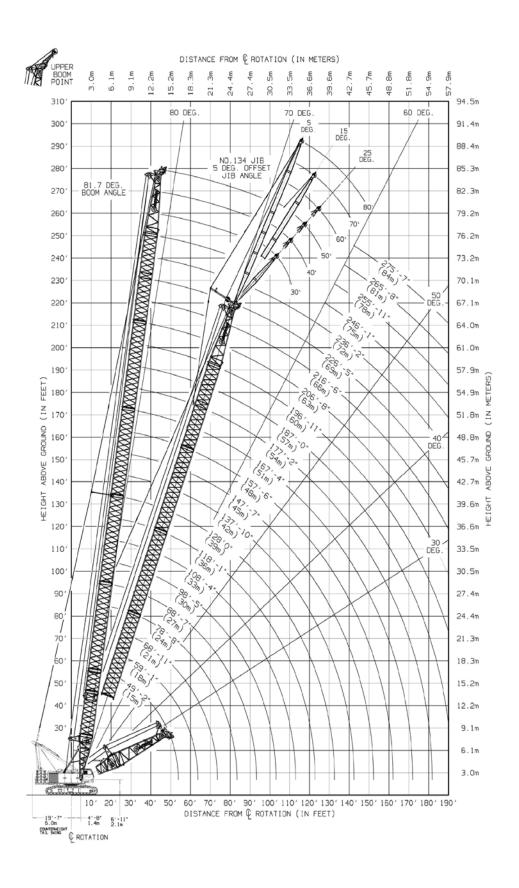
| No. 74A t | oom co | mbinati | ions | | No. 134 f | ixed jib | | |
|-----------------|---------------|-------------|---------------------|-----------------------------|---------------------|-------------|--------------------|--|
| Boom | Boom | inserts ler | ngth m | | combina | | J ***L | |
| length m | 3 | 6 | 12 | | Fixed jib | inserts l | d jib ength m | |
| 15 | 0 | 0 | 0 | | length m | 3,0 | 6,1 | |
| 18 | 1 | 0 | 0 | | | 3,0 | 0,1 | |
| 21 | 0 | 1 | 0 | | 9,1 | 0 | 0 | |
| 24 | 1 | 1 | 0 | | 12,2 | 1 | 0 | |
| 27 | 0 | 2 | 0 | | 15,2 | 0 | 1 | |
| 30 | 1 | 2 | 0 | | 18,3 | 1 | 1 | |
| 33 | 0 | 1 | 1 | | 21,3 | 0 | 2 | |
| 36 | 1 | 1 | 1 | | 24,4 | 1 | 2 | |
| 39 | 0 | 2 | 1 | | | | | Æ |
| 42 | 1 | 2 | 1 | | | | | 4,6 m No. 134 jib top |
| 45 | 0 | 1 | 2 | | | | , | 24,4 m 6,1 m |
| 48 | 1 | 1 | 2 | | _ | | | 134 fixed jib No. 134 jib insert |
| 51 | 0 | 2 | 2 | 1 | 7 | | | 6,1 m |
| 54 | 1 | 2 | 2 | | 9 m boom t | top | | No. 134 jib insert |
| 57 | 0 | 1 | 3 | | | | | 3,0 m |
| 60 | 1 | 1 | 3 | 11/1 | 711 | | | No. 134 jib insert |
| 63 | 0 | 2 | 3 | | 12 m | nsert with | | 4,6 m No. 134 jib butt |
| 66 | 1 | 2 | 3 | | backsta | ay assembly | | 10.154)18 8466 |
| 69 | 0 | 1 | 4 | 11 | 1 | | | 9 m boom top |
| 72 | 1 | 1 | 4 | | 1 | | | рооптор |
| 75 | 0 | 2 | 4 | # | 12 m | | | 12 m |
| 78 | 1 | 2 | 4 | /// / | 12 m boom insert | | | boom insert with backstay assembly |
| 81 | 0 | 1 | 5 | //// | | | | |
| 84 | 1 | 1 | 5 | | | | | |
| *With fixed jib | o backstay as | ssembly. | | | 12 m boom insert | | | 12 m boom insert |
| | | | / | 12 bo | m om insert | No | 69 m . 74A boom | 12 m boom insert |
| | | No | 84 m o. 74A boom | 12 m boon 3 m boom | n insert | | | 12 m boom insert |
| | | | | 6 m boom ir with sh | nsert eave | < | | 6 m boom insert with sheave 6 m |
| | | | | boom bu | tt | - | | boom butt |

Boom combinations



Main boom range diagram

No. 74A boom

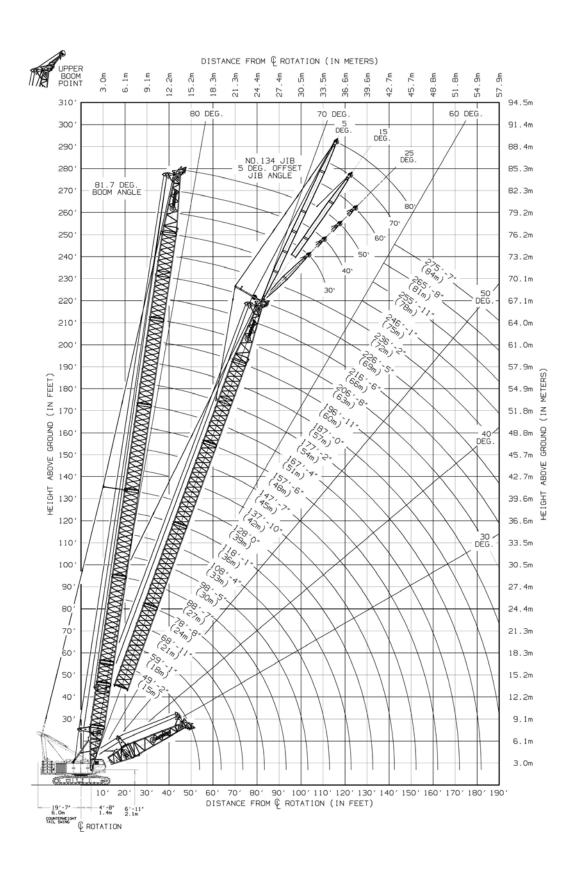


Main boom load chart

| 56 000 kg ı | upper cou | ınterwe | ight, 20 | 450 kg c | arbody | counter | weight | | | | | | |
|--------------------|-----------|---------|-----------------|-----------------|--------|---------|----------|----------------|------|------|------|------|------|
| | | | | | | 360° Ra | ting | kg x 10 | 00 | | | | |
| Radius | | | | | | Booi | n length | ı m | | | | | |
| m | 15 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 |
| 4,3 | 165,0 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 5 | 149,6 | 148,9 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 6 | 125,9 | 125,8 | 125,4 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 7 | 108,5 | 108,5 | 108,0 | 108,0 | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 8 | 94,9 | 94,9 | 94,5 | 94,3 | 94,2 | _ | _ | _ | _ | _ | _ | _ | _ |
| 9 | 78,6 | 78,8 | 78,7 | 78,8 | 78,8 | 78,3 | _ | _ | _ | _ | _ | _ | _ |
| 10 | 67,1 | 67,3 | 67,1 | 67,2 | 67,1 | 67,0 | 67,7 | _ | _ | _ | _ | _ | _ |
| 11 | 58,4 | 58,5 | 58,4 | 58,4 | 58,4 | 58,2 | 58,3 | 58,2 | 51,9 | _ | _ | _ | _ |
| 12 | 51,6 | 51,7 | 51,6 | 51,6 | 51,5 | 51,3 | 51,4 | 51,2 | 50,5 | _ | _ | _ | _ |
| 13 | 46,1 | 46,2 | 46,1 | 46,1 | 46,0 | 45,8 | 45,9 | 45,7 | 45,5 | 40,0 | 35,9 | _ | _ |
| 14 | 41,5 | 41,7 | 41,6 | 41,5 | 41,5 | 41,3 | 41,4 | 41,1 | 40,9 | 39,3 | 35,8 | 29,6 | _ |
| 15 | 37,7 | 37,9 | 37,8 | 37,7 | 37,7 | 37,5 | 37,5 | 37,3 | 37,1 | 37.0 | 35,6 | 29,5 | 24,8 |
| 16 | _ | 34,7 | 34,5 | 34,5 | 34,4 | 34,3 | 34,3 | 34,1 | 33,9 | 33,6 | 34,1 | 29,4 | 24,7 |
| 18 | _ | 29,4 | 29,4 | 29,4 | 29,3 | 29,1 | 29,1 | 28,9 | 28,7 | 28,4 | 28,0 | 27,7 | 24,5 |
| 20 | _ | _ | 25,4 | 25,4 | 25,3 | 25,1 | 25,2 | 24,9 | 24,7 | 24,4 | 24,0 | 23,7 | 23,6 |
| 22 | _ | _ | 22,2 | 22,3 | 22,2 | 22,0 | 22,0 | 21,8 | 21,5 | 21,3 | 20,8 | 20,5 | 20,2 |
| 24 | _ | _ | 19,6 | 19,7 | 19,6 | 19,4 | 19,5 | 19,2 | 19,0 | 18,7 | 18,2 | 18,0 | 17,7 |
| 26 | _ | _ | _ | 17,6 | 17,5 | 17,3 | 17,3 | 17,1 | 16,9 | 16,6 | 16,1 | 15,8 | 15,5 |
| 28 | _ | _ | _ | 15,8 | 15,7 | 15,5 | 15,6 | 15,3 | 15,1 | 14,8 | 14,3 | 14,0 | 13,7 |
| 30 | _ | _ | _ | 14,2 | 14,2 | 14.0 | 14,0 | 13,8 | 13,5 | 13,3 | 12,8 | 12,5 | 12,2 |
| 32 | _ | _ | _ | _ | 12,9 | 12,7 | 12,7 | 12,5 | 12,2 | 11,9 | 11,5 | 11,2 | 10,9 |
| 34 | _ | _ | _ | _ | 11,7 | 11,5 | 11,6 | 11,3 | 11,1 | 10,8 | 10,3 | 10,0 | 9,7 |
| 36 | _ | _ | _ | _ | _ | 10,5 | 10,6 | 10,3 | 10,1 | 9,8 | 9,3 | 9,0 | 8,7 |
| 38 | _ | _ | _ | _ | _ | 9,6 | 9,7 | 9,4 | 9,2 | 8,9 | 8,4 | 8,1 | 7,8 |
| 40 | _ | _ | _ | _ | _ | 8,8 | 8,9 | 8,6 | 8,4 | 8,1 | 7,6 | 7,3 | 7,0 |
| 42 | _ | _ | _ | _ | _ | _ | 8,1 | 7,9 | 7,6 | 7,4 | 6,9 | 6,6 | 6,3 |
| 44 | _ | _ | _ | _ | _ | _ | 7,5 | 7,2 | 7.0 | 6,7 | 6,2 | 5,9 | 5,6 |
| 46 | _ | _ | _ | _ | _ | _ | 6,9 | 6,6 | 6,4 | 6,1 | 5,6 | 5,3 | 5,0 |
| 48 | _ | _ | _ | _ | _ | _ | _ | 6,1 | 5,9 | 5,6 | 5,1 | 4,8 | 4,5 |
| 50 | _ | _ | _ | _ | _ | _ | _ | 5,6 | 5,4 | 5,1 | 4,6 | 4,3 | 4,0 |
| 52 | _ | _ | _ | _ | _ | _ | _ | 5,1 | 4,9 | 4,6 | 4,1 | 3,8 | 3,5 |
| 54 | _ | _ | _ | _ | _ | _ | _ | _ | 4,5 | 4,2 | 3,7 | 3,4 | 3,0 |
| 56 | _ | _ | _ | _ | _ | _ | _ | _ | 4,1 | 3,8 | 3,3 | 3,0 | 2,5 |
| 58 | _ | _ | _ | _ | _ | _ | _ | _ | 3,7 | 3,4 | 3,0 | 2,5 | 2,1 |
| 60 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 3,1 | 2,6 | 2,1 | 1,7 |
| 62 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 2,8 | 2,2 | 1,8 | _ |
| 64 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 2,5 | 1,9 | 1,4 | _ |
| 66 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 1,5 | _ | _ |

Fixed jib range diagram

No. 134 fixed jib on No. 74A boom



Fixed jib load charts

| 56 000 kg | upper co | unterwe | ight, 20 | 450 kg c a | arbody co | ounterw | eight | | | | | | | | |
|---------------------|---------------------|---------------|-----------------|-------------------|-----------|---------|-------|------|------|------|------|------|------|------|------|
| 360 ° Rati r | 0° Rating kg x 1000 | | | | | | | | | | | | | | |
| | | Boom length m | | | | | | | | | | | | | |
| Radius m | | 27 | | 39 | | | 51 | | | 63 | | | 75 | | |
| 1111 | 5° | 15° | 25° | 5° | 15° | 25° | 5° | 15° | 25° | 5° | 15° | 25° | 5° | 15° | 25° |
| 10,7 | _ | 25,0 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 12 | 21,0 | 25,0 | 21,0 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 14 | 19,7 | 25,0 | 19,7 | _ | 25,0 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 16 | 18,4 | 24,9 | 18,4 | 20,1 | 25,0 | 20,1 | _ | 25,0 | _ | _ | _ | _ | _ | _ | _ |
| 18 | 17,3 | 24,6 | 17,3 | 19,1 | 25,0 | 19,1 | 20,4 | 24,9 | 20,4 | _ | _ | _ | _ | _ | _ |
| 20 | 16,4 | 24,1 | 16,4 | 18,2 | 24,6 | 18,2 | 19,6 | 24,5 | 19,6 | 20,6 | 23,7 | 20,6 | _ | 21,8 | _ |
| 22 | 15,6 | 22,9 | 15,6 | 17,4 | 22,6 | 17,4 | 18,8 | 22,2 | 18,8 | 19,9 | 21,7 | 19,9 | 20,2 | 21,1 | 20,6 |
| 24 | 14,9 | 20,4 | 14,9 | 16,7 | 19,9 | 16,7 | 18,1 | 19,5 | 18,1 | 18,6 | 18,9 | 19,1 | 17,9 | 18,4 | 19,0 |
| 26 | 14,3 | 18,2 | 14,3 | 16,1 | 17,7 | 16,1 | 17,1 | 17,3 | 17,5 | 16,4 | 16,8 | 17,1 | 15,7 | 16,2 | 16,6 |
| 28 | 13,8 | 16,4 | 13,8 | 15,4 | 15,9 | 15,5 | 15,2 | 15,5 | 15,8 | 14,6 | 14,9 | 15,3 | 13,9 | 14,3 | 14,7 |
| 30 | _ | 14,8 | _ | 14,2 | 14,3 | 14,6 | 13,7 | 14,0 | 14,2 | 13,1 | 13,4 | 13,7 | 12,4 | 12,7 | 13,1 |
| 32 | _ | 13,5 | _ | 12,8 | 13,0 | 13,1 | 12,4 | 12,6 | 12,8 | 11,8 | 12,0 | 12,3 | 11,1 | 11,4 | 11,7 |
| 34 | _ | _ | _ | 11,7 | 11,8 | 11,9 | 11,2 | 11,4 | 11,6 | 10,6 | 10,8 | 11,1 | 9,9 | 10,2 | 10,5 |
| 36 | _ | _ | _ | 10,7 | 10,8 | 10,9 | 10,2 | 10,4 | 10,6 | 9,6 | 9,8 | 10,0 | 8,9 | 9,1 | 9,4 |
| 38 | _ | _ | _ | 9,7 | 9,9 | 9,9 | 9,3 | 9,5 | 9,6 | 8,7 | 8,9 | 9,1 | 8,0 | 8,2 | 8,5 |
| 40 | _ | _ | _ | _ | 9,0 | _ | 8,5 | 8,7 | 8,8 | 7,9 | 8,1 | 8,2 | 7,2 | 7,4 | 7,6 |
| 42 | _ | _ | _ | _ | 8,3 | _ | 7,8 | 7,9 | 8,0 | 7,2 | 7,3 | 7,5 | 6,4 | 6,7 | 6,8 |
| 44 | _ | _ | _ | _ | _ | _ | 7,1 | 7,3 | 7,3 | 6,5 | 6,7 | 6,8 | 5,8 | 6,0 | 6,2 |
| 46 | _ | _ | _ | _ | _ | _ | 6,5 | 6,6 | 6,7 | 5,9 | 6,1 | 6,2 | 5,2 | 5,4 | 5,5 |
| 48 | _ | _ | _ | _ | _ | _ | _ | 6,1 | _ | 5,4 | 5,5 | 5,6 | 4,6 | 4,8 | 5,0 |
| 50 | _ | _ | _ | _ | _ | _ | _ | 5,6 | _ | 4,9 | 5,0 | 5,1 | 4,1 | 4,3 | 4,4 |
| 52 | _ | _ | _ | _ | _ | _ | _ | 5,1 | _ | 4,4 | 4,5 | 4,6 | 3,7 | 3,8 | 4,0 |
| 54 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 4,0 | 4,1 | 4,2 | 3,2 | 3,4 | 3,5 |
| 56 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 3,6 | 3,7 | 3,7 | 2,7 | 2,9 | 3,0 |
| 58 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 3,3 | _ | 2,3 | 2,5 | 2,6 |
| 60 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 3,0 | _ | _ | 2,1 | 2,2 |
| 62 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 2,6 | _ | _ | _ | |
| 64 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 2,3 | _ | _ | _ | _ |

| 15 , 2 m l | No. 134 | 4 fixed | jib on l | No. 7 <u>4</u> | A boon | n _ | | | | | | | | | |
|--------------------------|----------------|---------------|----------|-------------------|-----------|---------|-------|------------------|------|------|------|------|------|------|------|
| 56 000 kg | upper co | unterwe | ight, 20 | 450 kg c a | arbody co | ounterw | eight | | | | | | | | |
| 360° Ratir | ng | | | | | | - | kg x 1000 |) | | | | | | |
| | | Boom length m | | | | | | | | | | | | | |
| Radius | | 27 | | | 39 | | | 51 | | 63 | | | 75 | | |
| m | 5° | 15° | 25° | 5° | 15° | 25° | 5° | 15° | 25° | 5° | 15° | 25° | 5° | 15° | 25° |
| 10,7 | 20,2 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 12 | 19,7 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 14 | 19,0 | 17.7 | _ | 19,3 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ |
| 16 | 18,4 | 17,2 | 13,4 | 18,8 | _ | _ | 18,7 | _ | _ | _ | _ | _ | _ | _ | _ |
| 18 | 17,8 | 16,6 | 12,9 | 18,3 | 17,1 | _ | 18,3 | _ | _ | _ | _ | _ | _ | _ | _ |
| 20 | 17,2 | 16,2 | 12,0 | 17,9 | 16,8 | 13,1 | 17,9 | 16,9 | _ | 17,4 | 16,5 | _ | 16,8 | _ | _ |
| 22 | 16,6 | 15,2 | 11,3 | 17,5 | 16,4 | 12,5 | 17,6 | 16,6 | 13,3 | 17,1 | 16,3 | _ | 16,5 | 15,9 | _ |
| 24 | 16,1 | 14,2 | 10,7 | 17,1 | 16,1 | 11,9 | 17,3 | 16,4 | 12,7 | 16,9 | 16,2 | 13,4 | 16,3 | 15,7 | _ |
| 26 | 15,6 | 13,3 | 10,2 | 16,6 | 15,5 | 11,4 | 16,9 | 16,1 | 12,2 | 16,6 | 16,0 | 12,9 | 16,1 | 15,6 | 12,8 |
| 28 | 15,1 | 12,5 | 9,7 | 16,0 | 14,7 | 10,9 | 15,6 | 15,7 | 11,8 | 15,0 | 15,5 | 12,5 | 14,5 | 15,2 | 12,5 |
| 30 | 14,4 | 11,8 | 9,3 | 14,5 | 13,9 | 10,5 | 14,0 | 14,5 | 11,4 | 13,4 | 13,9 | 12,1 | 12,9 | 13,4 | 12,3 |
| 32 | 13,5 | 11,2 | 9,0 | 13,2 | 13,2 | 10,1 | 12,7 | 13,1 | 11,0 | 12,1 | 12,5 | 11,7 | 11,5 | 12,0 | 12,0 |
| 34 | 12,6 | 10,6 | 8,6 | 12,0 | 12,3 | 9,7 | 11,5 | 11,9 | 10,6 | 10,9 | 11,3 | 11,4 | 10,4 | 10,8 | 11,3 |
| 36 | 11,6 | 10,2 | _ | 11,0 | 11,2 | 9,4 | 10,5 | 10,8 | 10,3 | 9,9 | 10,2 | 10,7 | 9,3 | 9,7 | 10,2 |
| 38 | 10,7 | 9,8 | _ | 10,1 | 10,3 | 9,1 | 9,6 | 9,9 | 10,0 | 9,0 | 9,3 | 9,6 | 8,4 | 8,8 | 9,2 |
| 40 | 9,9 | _ | _ | 9,3 | 9,5 | 8,9 | 8,8 | 9,0 | 9,3 | 8,1 | 8,5 | 8,8 | 7,6 | 8,0 | 8,3 |
| 42 | _ | _ | _ | 8,5 | 8,7 | 8,7 | 8,1 | 8,3 | 8,5 | 7,4 | 7,7 | 8,0 | 6,9 | 7,2 | 7,5 |
| 44 | _ | _ | _ | 7,9 | 8,0 | 8,2 | 7,4 | 7,6 | 7,8 | 6,7 | 7,0 | 7,3 | 6,2 | 6,5 | 6,8 |
| 46 | _ | _ | _ | 7,3 | 7,4 | _ | 6,8 | 7,0 | 7,2 | 6,1 | 6,4 | 6,6 | 5,6 | 5,9 | 6,2 |
| 48 | _ | _ | _ | 6,7 | 6,8 | _ | 6,3 | 6,4 | 6,6 | 5,6 | 5,8 | 6,0 | 5,0 | 5,3 | 5,6 |
| 50 | _ | _ | _ | 6,2 | _ | _ | 5,7 | 5,9 | 6,0 | 5,1 | 5,3 | 5,5 | 4,5 | 4,8 | 5,0 |
| 52 | _ | _ | _ | _ | _ | _ | 5,3 | 5,4 | _ | 4,6 | 4,8 | 5,0 | 4,1 | 4,3 | 4,5 |
| 54 | _ | _ | _ | _ | _ | _ | 4,9 | 5,0 | _ | 4,2 | 4,4 | 4,5 | 3,6 | 3,9 | 4,1 |
| 56 | _ | _ | _ | _ | _ | _ | 4,5 | 4,6 | _ | 3,8 | 4,0 | 4,1 | 3,2 | 3,5 | 3,6 |
| 58 | _ | _ | | _ | _ | | 4,1 | _ | | 3,4 | 3,6 | 3,7 | 2,8 | 3,0 | 3,2 |
| 60 | _ | _ | _ | _ | _ | _ | 3,7 | _ | _ | 3,1 | 3,2 | 3,4 | 2,4 | 2,6 | 2,8 |
| 62 | _ | _ | _ | _ | _ | _ | 3,4 | _ | _ | 2,8 | 2,9 | _ | 2,0 | 2,2 | 2,4 |
| 64 | _ | _ | _ | _ | _ | _ | _ | _ | _ | 2,5 | 2,6 | _ | _ | 1,9 | 2,0 |
| 66 | _ | _ | _ | _ | _ | | _ | _ | _ | 2,1 | 2,3 | _ | _ | | |
| 68 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | 1,9 | _ | _ | _ | _ |

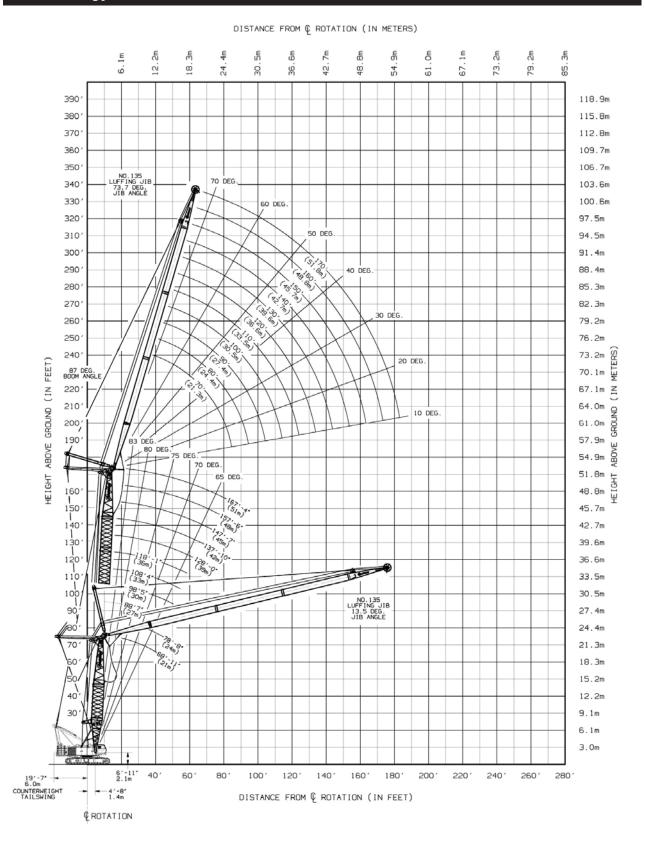
Fixed jib load charts

| 6 000 kg u p | per count | erweight, | 20 450 kg | carbody c | ounterwei | ght | | | | | | | | |
|---------------------|-----------|---------------|------------------|------------------|-----------|-----|-----|-----|-----|-----|-----|-----|--|--|
| 60 ° Rating | | | | kg x 1000 | | | | | | | | | | |
| | | Boom length m | | | | | | | | | | | | |
| Radius | | 27 | | | 39 | | | 51 | | | 63 | | | |
| m | 5° | 15° | 25° | 5° | 15° | 25° | 5° | 15° | 25° | 5° | 15° | 25 | | |
| 10,67 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | |
| 12 | 10,8 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | |
| 14 | 10,6 | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | |
| 16 | 10,2 | _ | _ | 10,2 | _ | _ | _ | _ | _ | _ | _ | _ | | |
| 18 | 9,9 | 10,0 | _ | 9,9 | _ | _ | 9,7 | _ | _ | _ | _ | _ | | |
| 20 | 9,6 | 9,7 | _ | 9,6 | 9,7 | _ | 9,5 | _ | _ | 9,2 | _ | _ | | |
| 22 | 9,3 | 9,4 | 8,4 | 9,4 | 9,5 | | 9,3 | 9,4 | _ | 9,0 | _ | _ | | |
| 24 | 9,0 | 9,1 | 7,9 | 9,1 | 9,2 | 8,6 | 9,0 | 9,2 | _ | 8,8 | _ | _ | | |
| 26 | 8,8 | 8,8 | 7,4 | 8,8 | 9,0 | 8,1 | 8,8 | 9,0 | 8,6 | 8,6 | 8,9 | _ | | |
| 28 | 8,5 | 8,5 | 6,9 | 8,6 | 8,8 | 7,7 | 8,6 | 8,8 | 8,2 | 8,5 | 8,7 | 8,6 | | |
| 30 | 8,3 | 8,2 | 6,6 | 8,4 | 8,6 | 7,3 | 8,4 | 8,7 | 7,9 | 8,3 | 8,6 | 8,4 | | |
| 32 | 8,1 | 8,0 | 6,2 | 8,2 | 8,5 | 7,0 | 8,2 | 8,5 | 7,5 | 8,1 | 8,4 | 8, | | |
| 34 | 7,9 | 7,7 | 5,9 | 8,0 | 8,3 | 6,6 | 8,0 | 8,3 | 7,2 | 7,9 | 8,3 | 7,7 | | |
| 36 | 7,7 | 7,3 | 5,6 | 7,8 | 8,1 | 6,4 | 7,8 | 8,2 | 7,0 | 7,8 | 8,1 | 7,4 | | |
| 38 | 7,4 | 6,9 | 5,4 | 7,6 | 7,9 | 6,1 | 7,6 | 8,0 | 6,7 | 7,6 | 8,0 | 7,2 | | |
| 40 | 7,2 | 6,5 | 5,1 | 7,5 | 7,7 | 5,9 | 7,5 | 7,9 | 6,5 | 7,4 | 7,8 | 7,0 | | |
| 42 | 6,9 | 6,2 | 4,9 | 7,3 | 7,5 | 5,6 | 7,3 | 7,8 | 6,2 | 7,3 | 7,7 | 6,7 | | |
| 44 | 6,7 | 5,9 | 4,8 | 7,1 | 7,1 | 5,4 | 7,2 | 7,7 | 6,0 | 6,9 | 7,4 | 6,5 | | |
| 46 | 6,5 | 5,7 | _ | 7,0 | 6,8 | 5,3 | 7,0 | 7,4 | 5,8 | 6,3 | 6,7 | 6,3 | | |
| 48 | 6,3 | 5,5 | _ | 6,8 | 6,5 | 5,1 | 6,5 | 6,8 | 5,7 | 5,8 | 6,2 | 6,2 | | |
| 50 | 6,0 | _ | _ | 6,5 | 6,3 | 4,9 | 6,0 | 6,3 | 5,5 | 5,3 | 5,6 | 6,0 | | |
| 52 | _ | _ | _ | 6,0 | 6,1 | 4,8 | 5,5 | 5,8 | 5,3 | 4,8 | 5,2 | 5,5 | | |
| 54 | _ | _ | _ | 5,6 | 5,8 | 4,7 | 5,1 | 5,3 | 5,2 | 4,4 | 4,7 | 5,0 | | |
| 56 | _ | _ | _ | 5,2 | 5,4 | _ | 4,7 | 4,9 | 5,1 | 4,0 | 4,3 | 4,6 | | |
| 58 | _ | _ | _ | 4,8 | 5,0 | _ | 4,3 | 4,5 | 4,7 | 3,6 | 3,9 | 4,2 | | |
| 60 | _ | _ | _ | 4,5 | _ | _ | 4,0 | 4,2 | 4,3 | 3,3 | 3,6 | 3,8 | | |
| 62 | _ | _ | _ | _ | _ | _ | 3,7 | 3,8 | 4,0 | 3,0 | 3,2 | 3,5 | | |
| 64 | _ | _ | _ | _ | _ | _ | 3,4 | 3,5 | 3,6 | 2,7 | 2,9 | 3,1 | | |
| 66 | _ | _ | _ | _ | | _ | 3,1 | 3,2 | | 2,4 | 2,6 | 2,8 | | |
| 68 | _ | _ | _ | _ | _ | _ | 2,8 | 2,9 | _ | 2,0 | 2,3 | 2,5 | | |
| 70 | _ | _ | _ | _ | _ | _ | 2,6 | _ | _ | _ | 2,0 | 2,2 | | |
| 72 | _ | _ | _ | _ | _ | _ | 2.3 | _ | _ | _ | _ | _ | | |

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

Luffing jib range diagram

No. 135 luf ng jib on No. 74A boom



Luffing jib load charts

No. 135 luf ng jib on No. 74A boom

56 000 kg upper counterweight 20 450 kg carbody counterweight

360° Rating

kg x 1000

87° boom angle

| 21,3 m l | 21,3 m luffing jib length | | | | | | | | |
|----------|---------------------------|------|------|------|--|--|--|--|--|
| Radius | Boom length m | | | | | | | | |
| m | 21 | 30 | 39 | 51 | | | | | |
| 9,1 | 50,0 | _ | _ | _ | | | | | |
| 10 | 50,0 | 46,3 | 40,9 | _ | | | | | |
| 12 | 47,0 | 45,8 | 40,7 | 32,7 | | | | | |
| 14 | 41,8 | 39,6 | 36,8 | 30,2 | | | | | |
| 16 | 37,2 | 34,8 | 32,6 | 27,7 | | | | | |
| 18 | 32,8 | 31,2 | 29,4 | 25,2 | | | | | |
| 20 | 28,8 | 28,3 | 26,9 | 22,9 | | | | | |
| 22 | 25,6 | 25,6 | 24,9 | 20,9 | | | | | |
| 24 | 21,4 | 22,8 | 22,8 | 19,2 | | | | | |

| 30 , 5 m l | 30 , 5 m luffing jib length | | | | | | | | |
|--------------------------|---|------|------|------|--|--|--|--|--|
| Radius | Boom length m | | | | | | | | |
| m | 21 | 30 | 39 | 51 | | | | | |
| 12 | 37,0 | 34,9 | _ | _ | | | | | |
| 14 | 34,7 | 34,3 | 31,2 | 24,3 | | | | | |
| 16 | 32,7 | 32,3 | 30,5 | 22,9 | | | | | |
| 18 | 30,8 | 30,6 | 28,3 | 21,4 | | | | | |
| 20 | 28,7 | 28,1 | 25,9 | 19,9 | | | | | |
| 22 | 25,4 | 25,4 | 23,7 | 18,4 | | | | | |
| 24 | 22,7 | 22,7 | 21,6 | 17,0 | | | | | |
| 26 | 20,6 | 20,5 | 19,6 | 15,6 | | | | | |
| 28 | 18,7 | 18,7 | 17,9 | 14,4 | | | | | |
| 30 | 17,1 | 17,1 | 16,3 | 13,3 | | | | | |
| 32 | 15,7 | 15,7 | 14,9 | 12,4 | | | | | |
| 34 | _ | _ | _ | 11,6 | | | | | |

| 39 , 6 m lu | 39,6 m luffing jib length | | | | | | | | |
|---------------------------|---------------------------|------|------|------|--|--|--|--|--|
| Radius | Boom length m | | | | | | | | |
| m | 21 | 30 | 39 | 51 | | | | | |
| 14 | 23,5 | _ | _ | _ | | | | | |
| 16 | 22,9 | 21,8 | 20,6 | 17,8 | | | | | |
| 18 | 22,3 | 21,3 | 20,1 | 17,0 | | | | | |
| 20 | 21,7 | 20,8 | 19,7 | 16,2 | | | | | |
| 22 | 21,0 | 20,4 | 19,3 | 15,3 | | | | | |
| 24 | 19,9 | 19,8 | 18,4 | 14,5 | | | | | |
| 26 | 18,9 | 18,9 | 17,2 | 13,6 | | | | | |
| 28 | 18,0 | 18,0 | 16,0 | 12,7 | | | | | |
| 30 | 16,9 | 16,9 | 14,9 | 11,9 | | | | | |
| 32 | 15,6 | 15,6 | 13,8 | 11,1 | | | | | |
| 34 | 14,4 | 14,4 | 12,8 | 10,4 | | | | | |
| 36 | 13,4 | 13,3 | 11,9 | 9,7 | | | | | |
| 38 | 12,5 | 12,4 | 11,0 | 9,1 | | | | | |
| 40 | 11,6 | 11,6 | 10,3 | 8,6 | | | | | |
| 42 | 10,0 | 10,8 | 9,6 | 8,1 | | | | | |
| 44 | _ | _ | _ | 7,8 | | | | | |

| 51 , 8 m l | 51,8 m luffing jib length | | | | | | | |
|--------------------------|---------------------------|---------|---------|------|--|--|--|--|
| Radius | | Boom le | ength m | | | | | |
| m | 21 | 30 | 39 | 51 | | | | |
| 18 | 16,7 | _ | _ | _ | | | | |
| 20 | 15,8 | 15,6 | 14,4 | 11,8 | | | | |
| 22 | 14,9 | 14,8 | 13,9 | 11,4 | | | | |
| 24 | 14,0 | 14,0 | 13,5 | 11,1 | | | | |
| 26 | 13,2 | 13,2 | 13,0 | 10,6 | | | | |
| 28 | 12,4 | 12,4 | 12,4 | 10,2 | | | | |
| 30 | 11,6 | 11,7 | 11,7 | 9,8 | | | | |
| 32 | 10,9 | 11,0 | 11,0 | 9,4 | | | | |
| 34 | 10,2 | 10,3 | 10,4 | 8,9 | | | | |
| 36 | 9,5 | 9,7 | 9,7 | 8,5 | | | | |
| 38 | 8,9 | 9,0 | 9,2 | 8,1 | | | | |
| 40 | 8,3 | 8,5 | 8,6 | 7,6 | | | | |
| 42 | 7,8 | 7,9 | 8,0 | 7,3 | | | | |
| 44 | 7,3 | 7,4 | 7,6 | 6,9 | | | | |
| 46 | 6,8 | 6,9 | 7,0 | 6,5 | | | | |
| 48 | 6,2 | 6,4 | 6,5 | 6,2 | | | | |
| 50 | 5,7 | 5,8 | 6,0 | 5,8 | | | | |
| 52 | 5,2 | 5,3 | 5,4 | 5,3 | | | | |
| 54 | 4,7 | 4,8 | 5,0 | 4,8 | | | | |
| 56 | _ | _ | _ | 4,4 | | | | |

Specifications

Upperworks



Engine

Cummins Model QSL9-325 Tier 3, 6 cylinder, 242 kw at 2100 governed rpm.

Cummins Model QSL9-310 Tier 4 Final, 6 cylinder, 230 kw at 2100 governed rpm.

Includes engine block heater (120 V), air heater starting aid (24 V), oil heater starting aid (120 V), high silencing muf er (Tier 3) or aftertreatment system (Tier 4 Final), radiator and fan. 24 volt starting and 110 amp alternator.

One 617 liter capacity diesel fuel tank, mounted on right side of upperworks with sight and electrical level indicator.



Controls

Hydraulic pilot controls provide infinite speed response directly proportional to control lever movement. Controls include Manitowoc's CAN-BUS operating system providing microprocessor driven control logic, pump control, on-board diagnostics and service information.

Block-up limit control is standard for hoist and whip lines. RCL/RCI (rated capacity limiter/rated capacity indicator) system is standard for main boom and upper boom point. "Function cut-out" or "warning only" operation is available via programmable configuration.

Travel and swing alarms are standard.



Hydraulic system

Three high-pressure pumps are driven by the engine. Two pumps provide hydraulic power enabling simultaneous multi-function capability. One pump provides independent "closed loop" hydraulic power for the swing system. An additional fourth pump is required for free fall.

Hydraulic reservoir capacity is 598 liter and is equipped with breather, sight and electrical level indicator, clean out access, and internal dif user.

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

Replaceable, 10 micron (absolute) full f ow tank filter is furnished in the hydraulic circuit. All oil is filtered prior to return to the hydraulic reservoir.

Hydraulic system also includes hydraulic oil cooler.



Drums

Two equal width winches are driven by independent variable displacement axial piston hydraulic motors through planetary reduction. Drums are grooved for 26 mm 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 drums.
- Optional: auxiliary (third) hydraulic powered drum mounted in boom butt. Includes third drum control system. Auxiliary drum may be used as the luffing hoist when machine is equipped with a luffing jib.
- Optional: auxiliary drum preparation includes electric wiring, controls, hydraulic selector valve and plumbing.

Boom hoist

Independent boom hoist consists of a single drum grooved for 22 mm diameter wire rope. Includes 22 mm diameter wire rope for 18 part line reeving.

Drum is powered by a fixed displacement hydraulic motor coupled to an internal brake and planetary gearbox equipped with ratchet and pawl.



Mast

Moving mast is 7,2 m long and connects the boom hoist reeving to the steel boom strap rigging. When used with optional self-erect package, the mast is utilized for crane assembly and disassembly. The mast is capable of lifting and positioning the crawler assemblies, stacking the counterweights and assembling the boom and jib, utilizing the self assembly cylinder. Rotating bed includes counterweight raising cylinders capable of lifting the entire upperworks counterweight for removal and installation. The upperworks counterweight is attached to rotating bed with power-actuated pins.



Counterweight

Counterweight raising cylinders are mounted in the rotating bed with chain connecting the top of the cylinders and the counterweight tray. The upper counterweight is secured to the rotating bed with hydraulically actuated pins.

Upper counterweight consists of a one-piece tray and eight upper counterweight boxes. Series 2 carbody counterweight boxes are attached to carbody (each side) and weigh 10 225 kg

Upper counterweight (6 pieces+tray)

46 000 kg

Series 2

Upper counterweight (8 pieces+tray)

56 000 kg

Carbody counterweight (2 pieces)

 $20~450~\mathrm{kg}$

Total counterweight

76 450 kg



Q Swing system

Independent single swing drive mounted in rotating bed is powered by a hydraulic piston type motor driving a spur gear through a planetary reduction.

Maximum swing speed: 2.5 rpm.



Operator's cab

Fully enclosed and galvaneeled steel insulated 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, air conditioning, dome light, sun visor and shade, fire extinguisher and air circulating fan are standard.

• Additional optional: External RCI light.

Specifications

Lowerworks



Carbody

High-strength fabricated steel assembly utilizing Manitowoc's FACT[™] connection system incorporating two hydraulically powered pins for fast installation and removal of crawlers.



Crawlers

Crawler assemblies are 8 m long high-strength steel fabrications with 1,1 m wide cast steel crawler pads. Each crawler is powered independently by a variable displacement hydraulic motor driving a planetary reduction. Crawlers provide ample tractive ef ort that allows counter rotation with full rated load. Maximum ground speed of 3,1 kph.

Attachments



No. 74A boom

The liftcrane is equipped with a 15 m basic No. 74A tubular chord boom consisting of a 6 m butt and 9 m top with six 60 cm diameter roller bearing sheaves. No. 74A boom utilizes steel straps. Hydraulically powered boom hinge pin system consists of cylinder, piping, operating controls and locking device.

Spring-cushioned boom stop and electronic automatic boom stop standard.

Aux drum preparation included as standard.

- No. 74A boom length is increased using 3 m, 6 m and 12 m boom inserts with steel suspension straps. Max boom length
- 13,6 t swivel hook and weight ball standard.



🖄 No. 134 fixed jib

9,1 m basic No. 134 tubular chord fixed jib consisting of 4,6 m jib butt and 4,6 m jib top with 3,8 m jib strut, wire rope, pendants and backstay. Includes RCL/RCI hardware.

No. 134 fixed jib length is increased using 3,05 m and 6,1 m inserts with wire rope pendants. Max fixed jib length is 24,4 m.



No. 135 luffing jib

21,3 m basic No. 135 tubular chord luffing jib assembly consisting of 8,2 m butt, 6,1 m insert, and 7 m top with two 60 cm straight roller bearing sheaves. Also included are RCL/RCI hardware, pin connected jib sections, pendants, fixed strut, jib strut, backstay pendants, boom point wheel and 26 mm luffing jib hoist line. No. 135 luffing jib is lengthened using 3,05 m, 6,1 m, 12,2 m inserts with wire rope pendants. Maximum luffing jib length is 51,8 m.

Optional equipment

Mirrors for viewing drum operation and surroundings from operator's cab.

- Camera system includes drum cameras and monitor.
- Handrails and ladder to allow easy access to machinery from top of enclosures.
- Self-erect system includes carbody jacking cylinders with pads, controls, self assembly cylinder, boom-butt installation support, counterweight cylinders and crawler handling chain.

Detachable upper boom point with one 76 cm diameter tapered roller bearing sheave for No. 74A boom top (this is same upper boom point used on 555, 777, 999, 2250, 16000 and 18000).

Blocks and hooks:

- 60 t hook block with two 76 cm sheaves for 26 mm wire rope with swivel hook, hook latch and swivel lock.
- 100 t hook block with three 76 cm sheaves for 26 mm wire rope with swivel hook, hook latch and swivel lock.
- 200 t hook block with seven 76 cm sheaves for 26 mm wire rope with duplex swivel hook, hook latch and swivel lock. Hydraulic Test Kit recommended to properly analyze the performance of the hydraulic system.

Service Interval Kits include the items necessary to perform general scheduled maintenance.

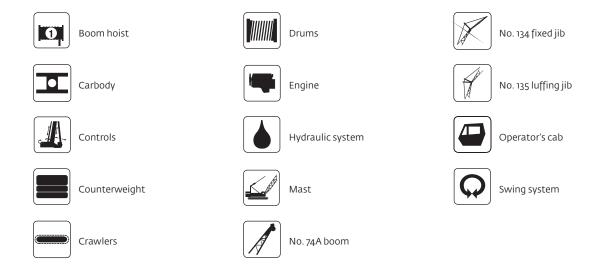
Special paint color (other than Manitowoc standard red and black).

Zinc rich primer (marine applications) for corrosion resistance.

Special Customer Decals: custom vinyl decal(s) of name and/or logo from artwork supplied by customer.

Export packaging: basic crane, boom and jib sections.

Symbols glossary



Notes

Notes



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