

# GHC30

## Product Guide

ASME B30.5  
Metric 75% and Imperial 75%



### Features

- 30 t (30 USt) capacity
- 10 m – 25,2 m (33 ft – 83 ft) three-section, full-power boom
- Optional 13 m (42 ft 8 in) offsettable, bi-fold swingaway
- 100% pick and carry load charts
- Cummins QSB 4.5L Tier 4 final compliant engine

# GROVE GHC30

A compact powerhouse, the GHC30 transports to the jobsite on one truck, with low gross vehicle weight and ground-bearing pressure and a boom measuring 10 m - 25,2 m (33 ft - 83 ft).

## Features

### > Strong telescopic boom

The GHC30 comes equipped with a robust full-power, three-section boom that allows for telescoping under load. The main boom offers 10 m - 25,2 m (33 ft - 83 ft) of reach. This paired with the optional 13 m (42 ft 8 in) offsettable swingaway extension provides a maximum tip height of 40,2 m (132 ft).



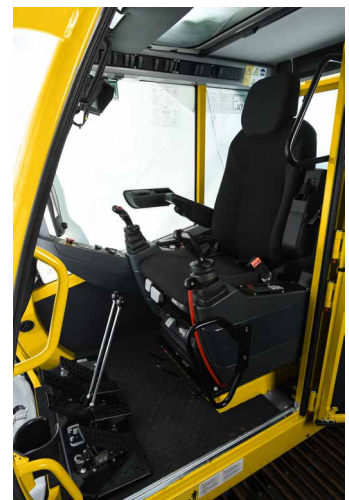
### > Travel made easy

Transportation to the jobsite can easily be accomplished in one load. Once on the jobsite, the GHC30's narrow dimensions provide excellent maneuverability in confined areas. The strong undercarriage provides 100 percent pick and carry capability and work up to 4° of inclination. The hydraulically extendable tracks allow for three working gauges for maximum flexibility on the job.



### > Comfort redefined

Operator cab is designed to deliver maximum comfort while incorporating conveniently located joystick controls for precise operation. Cab comes equipped with an integrated rated capacity limiter, air suspension seat, color monitor for up to four cameras and precise climate control. The cab can tilt up to 15° providing the operator additional comfort when working at long boom and extension lengths.



### > 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](http://www.cranestar.com) for more information.

## GHC30 benefits

### > More productive in more places on the jobsite

The GHC30 delivers unsurpassed maneuverability and versatility.

- Telescoping boom, plus heavy-duty crawler tracks for all-terrain productivity
- Superior gradeability
- High visibility cabs with up to 15° tilt
- Two-speed hydrostatic drive allows for skid steering and counter-rotation capability
- Compact design allows you to work in more places

### > Rugged durability to tackle all terrain

The GHC30 comes equipped with a durable, powerful crawler system.

- Hydraulically extendable and retractable crawlers
- Heavy-duty, 700 mm (28 in) triple bar, maintenance-free track shoes
- Cummins QSB Tier 3 or Tier 4 final diesel engines power through terrain challenges

### > Easy transport to the jobsite and quick assembly

The GHC30 helps you spend less time on the truck and more time on the job.

- Transports to the jobsite in one load
- Retracted gauge for transport width
- Excellent serviceability keeps you up and running



**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

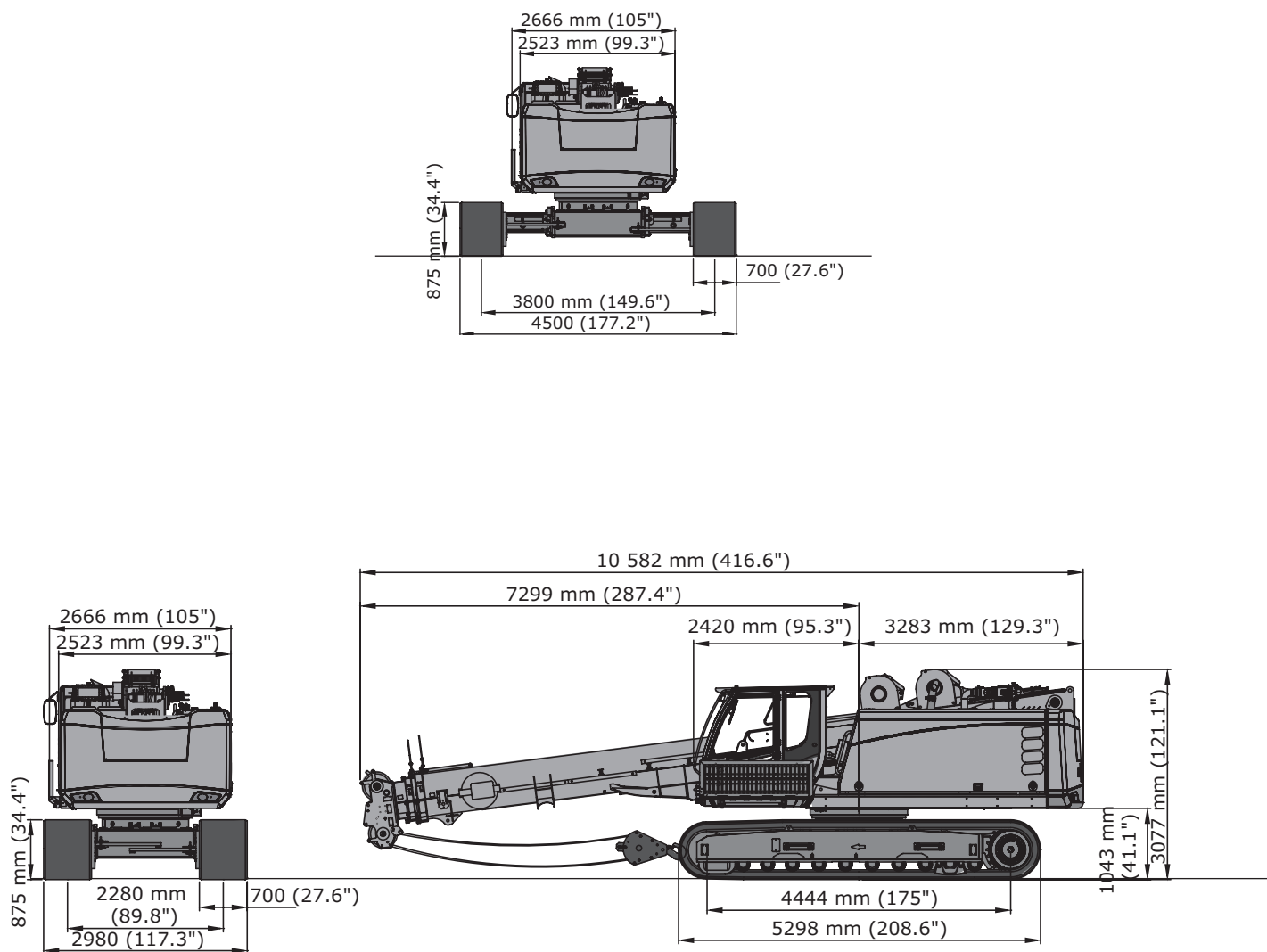
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# Dimensions

## Transport dimensions and weights

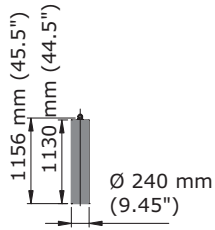
### Operating/ Transport Weight:

Approximately 33 820 kg (74,560 lb) with 13 m (42 ft 8 in) bi-fold boom extension, two hoists, 700 mm (28 in) triple bar shoes, 5 t (11,025 lb) counterweight and 25 t (27.5 USt) hook block.

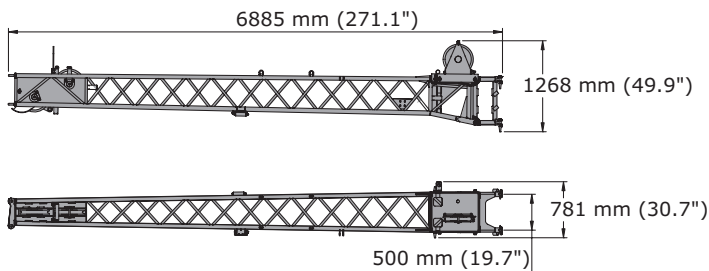


# Dimensions

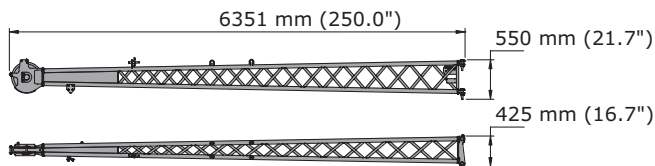
## Transport dimensions and weights



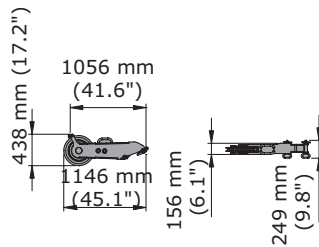
Counterweight inserts 2x 400 kg (880 lb)



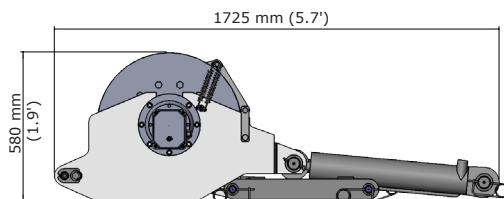
6,5 m (21 ft 4 in)  
boom extension 600 kg (1323 lb)



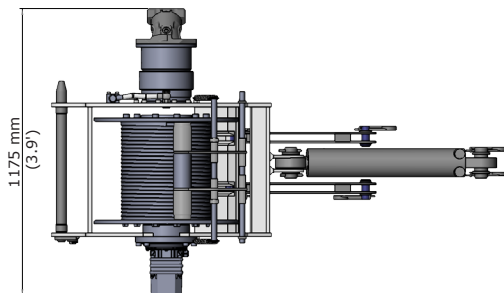
6,5 m (21 ft 4 in)  
fly boom extension 250 kg (551 lb)



Auxiliary jib 50 kg (110 lb)

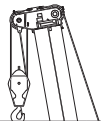
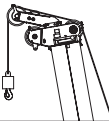


Auxiliary hoist  
including 80m (262 ft)  
of wire rope 490 kg (1080 lb)



# Load programs

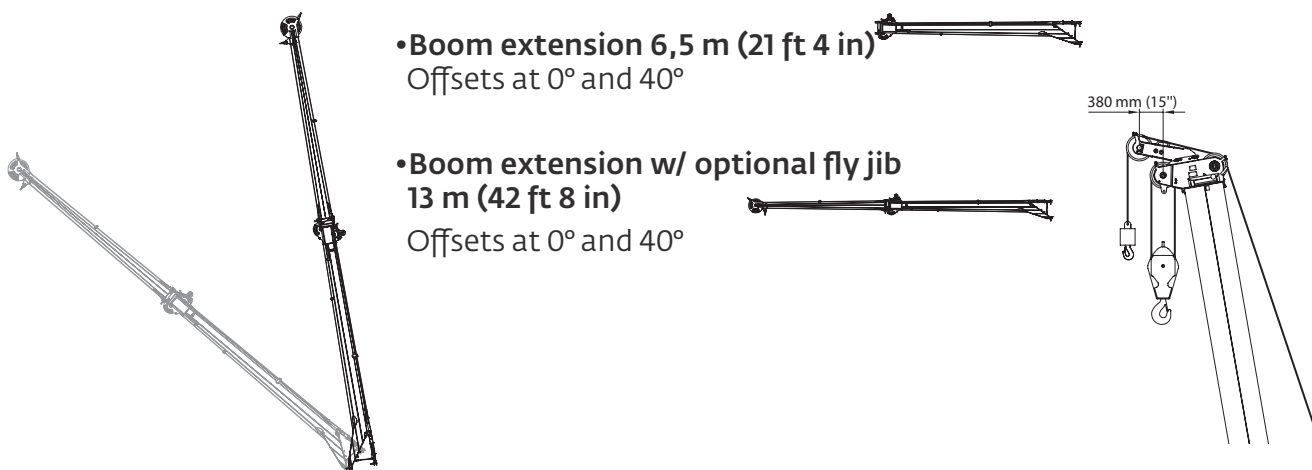
## Working load programs

|                                                                                                     | Main boom                                                                                       |                                                                                                |                                                                                                | Auxiliary boom nose                                                                             |                                                                                                |                                                                                                | Boom extension 6,5 m (21 ft 4 in)                                                                |                                                                                                  |                                                                                                  | Bi-fold Boom Extension 13m (42 ft 8 in)                                                           |                                                                                                  |                                                                                                  |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Counterweight                                                                                       |                |                                                                                                |                                                                                                |                |                                                                                                |                                                                                                |               |                                                                                                  |                                                                                                  |                |                                                                                                  |                                                                                                  |
| Undercarriage track width (centerline to centerline of crawlers)                                    |  3,8 m (12.5") |  3,0 m (9.8") |  2,3 m (7.5") |  3,8 m (12.5") |  3,0 m (9.8") |  2,3 m (7.5") |  3,8 m (12.5") |  3,0 m (9.8") |  2,3 m (7.5") |  3,8 m (12.5") |  3,0 m (9.8") |  2,3 m (7.5") |
|  4,2 t (9260 lb)   | 360°<br>       | 360°<br>      | 360°<br>      | 360°<br>       | 360°<br>      | 360°<br>      | 360°<br>       | —                                                                                                | —                                                                                                | 360°<br>       | —                                                                                                | —                                                                                                |
|  5,0 t (11,025 lb) | 360°<br>       | 360°<br>      | 360°<br>      | 360°<br>       | 360°<br>      | 360°<br>      | 360°<br>       | —                                                                                                | —                                                                                                | 360°<br>       | —                                                                                                | —                                                                                                |

Note:

Additional safe working loads are also available for 2° and 4° inclines.

## Boom extension options



| Capacity                 | Weight          | Cable reeving and maximum safe working load |                       |                       |                       |                       |                       |                       |                     |                   |
|--------------------------|-----------------|---------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|-------------------|
|                          |                 | 9                                           | 8                     | 7                     | 6                     | 5                     | 4                     | 3                     | 2                   | 1                 |
| 4 t (4.4 USt)            | 80 kg (176 lb)  | —                                           | —                     | —                     | —                     | —                     | —                     | —                     | —                   | 3500 kg (7716 lb) |
| 25 t (27.5 USt) 3-sheave | 220 kg (485 lb) | —                                           | —                     | 24 500 kg (54,013 lb) | 21 000 kg (46,297 lb) | 17 500 kg (38,581 lb) | 14 000 kg (30,865 lb) | 10 500 kg (23,149 lb) | 7000 kg (15,432 lb) | 3500 kg (7716 lb) |
| 35 t (38.5 USt) 5-sheave | 400 kg (882 lb) | 31 500 kg (69,446 lb)                       | 28 000 kg (61,729 lb) | 24 500 kg (54,013 lb) | 21 000 kg (46,297 lb) | 17 500 kg (38,581 lb) | 14 000 kg (30,865 lb) | 10 500 kg (23,149 lb) | 7000 kg (15,432 lb) | 3500 kg (7716 lb) |

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

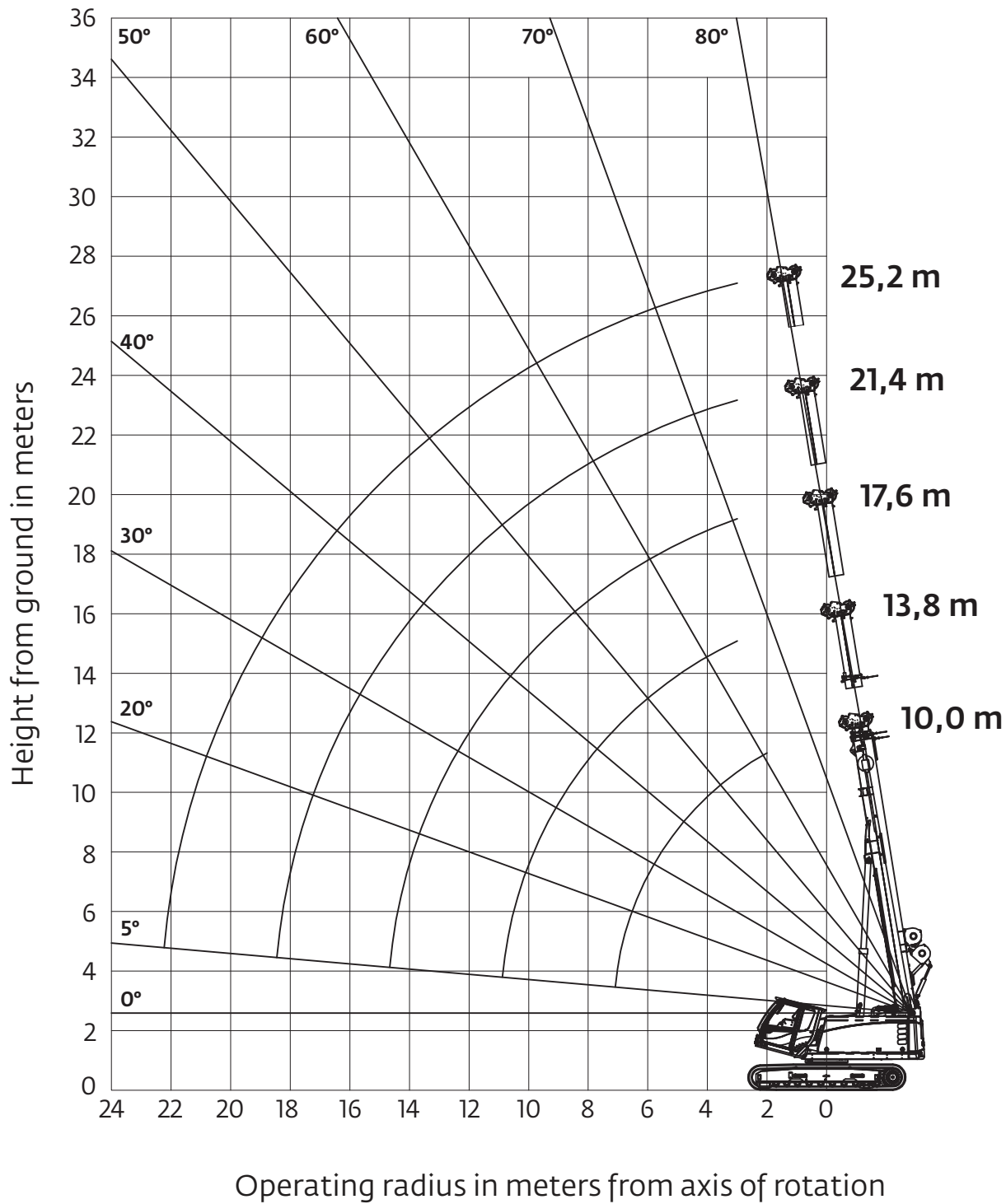
The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# Working range

Main boom – metric 75%

## Main boom

(BOOM DEFLECTION NOT SHOWN)



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# Load chart

Main boom – metric 75%



25,2 m



5 t



100%



360°



Kilograms

| Radius in meters                                                                        | Main boom length in meters |                |                |                |                |
|-----------------------------------------------------------------------------------------|----------------------------|----------------|----------------|----------------|----------------|
|                                                                                         | 10,0                       | 13,8           | 17,6           | 21,4           | 25,2           |
| 2,5                                                                                     | 30 000                     | —              | —              | —              | —              |
| 3,0                                                                                     | 28 500                     | 19 000         | 19 000         | 14 200         | 10 300         |
| 4,0                                                                                     | 24 500                     | 19 000         | 18 300         | 13 200         | 9800           |
| 5,0                                                                                     | 18 800                     | 18 500         | 16 900         | 12 000         | 9300           |
| 6,0                                                                                     | 13 600                     | 14 000         | 13 600         | 10 800         | 8600           |
| 7,0                                                                                     | 10 500                     | 10 800         | 11 000         | 10 000         | 7900           |
| 8,0                                                                                     | —                          | 8700           | 8800           | 8900           | 7300           |
| 9,0                                                                                     | —                          | 7200           | 7400           | 7400           | 6800           |
| 10,0                                                                                    | —                          | 6000           | 6200           | 6300           | 6400           |
| 11,0                                                                                    | —                          | —              | 5300           | 5400           | 5500           |
| 12,0                                                                                    | —                          | —              | 4500           | 4700           | 4700           |
| 13,0                                                                                    | —                          | —              | 4000           | 4100           | 4100           |
| 14,0                                                                                    | —                          | —              | 3500           | 3600           | 3600           |
| 15,0                                                                                    | —                          | —              | —              | 3200           | 3200           |
| 16,0                                                                                    | —                          | —              | —              | 2800           | 2800           |
| 17,0                                                                                    | —                          | —              | —              | 2500           | 2600           |
| 18,0                                                                                    | —                          | —              | —              | 2200           | 2300           |
| 19,0                                                                                    | —                          | —              | —              | —              | 2000           |
| 20,0                                                                                    | —                          | —              | —              | —              | 1800           |
| 21,0                                                                                    | —                          | —              | —              | —              | 1600           |
| 22,0                                                                                    | —                          | —              | —              | —              | 1400           |
| When 6,5 m extension is in stowed position, the rated loads must be reduced as follows: |                            |                |                |                |                |
| Reduction of load (kg)                                                                  | 430                        | 315            | 245            | 205            | 170            |
| When 13 m extension is in stowed position, the rated loads must be reduced as follows:  |                            |                |                |                |                |
| Reduction of load (kg)                                                                  | 580                        | 425            | 335            | 275            | 235            |
| Lifting capacities at 5° boom angle                                                     |                            |                |                |                |                |
| Boom Angle                                                                              | Main Boom Length in Meters |                |                |                |                |
|                                                                                         | 10,0                       | 13,8           | 17,6           | 21,4           | 25,2           |
| 5°                                                                                      | 10 500<br>(7,1)            | 5300<br>(10,9) | 3300<br>(14,7) | 2100<br>(18,5) | 1100<br>(22,3) |

NOTE: ( ) reference radii in meters.

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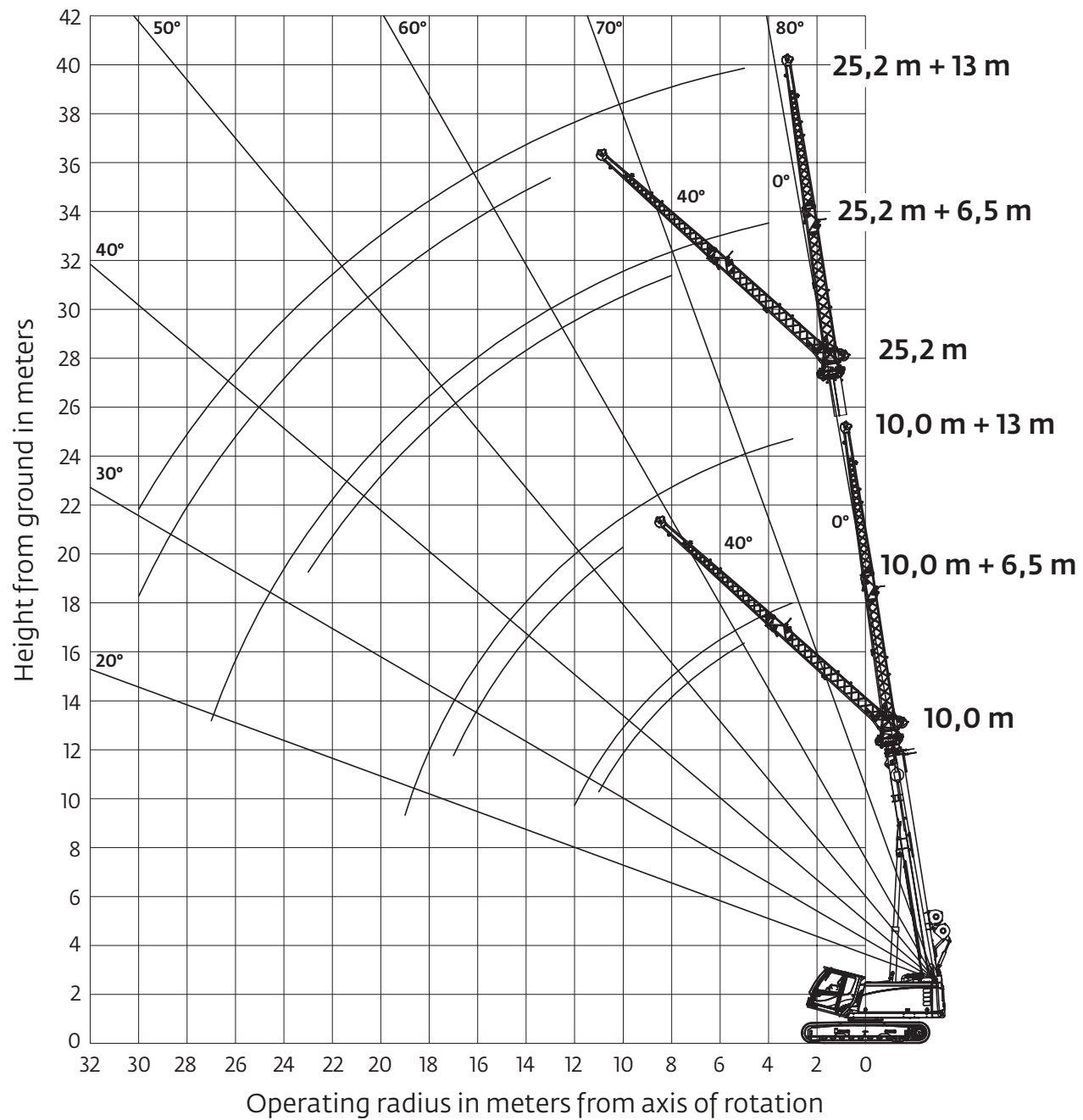
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# Working range

Extensions – metric 75%

## Main boom with extensions

(BOOM DEFLECTION NOT SHOWN)



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# Load chart

Extensions – metric 75%



25,2 m



6,5 m



5 t



100%



360°



Kilograms

| Radius in meters | Main boom length in meters |      |      |      |      |      |      |      |      |      |
|------------------|----------------------------|------|------|------|------|------|------|------|------|------|
|                  | 10,0                       |      | 13,8 |      | 17,6 |      | 21,4 |      | 25,2 |      |
|                  | 0°                         | 40°  | 0°   | 40°  | 0°   | 40°  | 0°   | 40°  | 0°   | 40°  |
| 3,0              | 7000                       | —    | 7000 | —    | 7000 | —    | 7000 | —    | —    | —    |
| 4,0              | 7000                       | —    | 7000 | —    | 7000 | —    | 7000 | —    | 5700 | —    |
| 5,0              | 6900                       | 4400 | 7000 | 4300 | 7000 | —    | 6900 | —    | 5700 | —    |
| 6,0              | 6700                       | 4100 | 6900 | 4200 | 7000 | 4200 | 6700 | —    | 5500 | —    |
| 7,0              | 6100                       | 3900 | 6800 | 4100 | 6900 | 4100 | 6500 | 4000 | 5400 | —    |
| 8,0              | 5500                       | 3800 | 6400 | 3900 | 6700 | 4000 | 6200 | 3900 | 5100 | 3800 |
| 9,0              | 5100                       | 3600 | 6000 | 3800 | 6400 | 3900 | 5800 | 3800 | 4900 | 3700 |
| 10,0             | 4700                       | 3600 | 5500 | 3700 | 6000 | 3800 | 5500 | 3700 | 4700 | 3600 |
| 11,0             | 4300                       | 3500 | 5200 | 3600 | 5500 | 3700 | 5300 | 3600 | 4400 | 3600 |
| 12,0             | 3900                       | —    | 4800 | 3500 | 4800 | 3600 | 4800 | 3500 | 4200 | 3500 |
| 13,0             | —                          | —    | 4200 | 3400 | 4200 | 3500 | 4100 | 3500 | 3900 | 3400 |
| 14,0             | —                          | —    | 3700 | 3300 | 3700 | 3400 | 3600 | 3400 | 3700 | 3400 |
| 15,0             | —                          | —    | 3300 | —    | 3200 | 3300 | 3200 | 3400 | 3100 | 3300 |
| 16,0             | —                          | —    | 2900 | —    | 2800 | 3100 | 2800 | 3200 | 2800 | 3200 |
| 17,0             | —                          | —    | —    | —    | 2500 | 2800 | 2500 | 2800 | 2500 | 2800 |
| 18,0             | —                          | —    | —    | —    | 2300 | —    | 2200 | 2500 | 2300 | 2600 |
| 19,0             | —                          | —    | —    | —    | 2000 | —    | 1900 | 2200 | 2000 | 2300 |
| 20,0             | —                          | —    | —    | —    | —    | —    | 1700 | 1900 | 1700 | 2100 |
| 21,0             | —                          | —    | —    | —    | —    | —    | 1500 | —    | 1500 | 1800 |
| 22,0             | —                          | —    | —    | —    | —    | —    | 1400 | —    | 1300 | 1600 |
| 23,0             | —                          | —    | —    | —    | —    | —    | 1100 | —    | 1200 | 1400 |
| 24,0             | —                          | —    | —    | —    | —    | —    | —    | —    | 1000 | —    |
| 25,0             | —                          | —    | —    | —    | —    | —    | —    | —    | 800  | —    |
| 26,0             | —                          | —    | —    | —    | —    | —    | —    | —    | 700  | —    |
| 27,0             | —                          | —    | —    | —    | —    | —    | —    | —    | 600  | —    |

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# Load chart

Extensions – metric 75%



25,2 m



13 m



5 t



100%



360°



Kilograms

| Radius<br>in<br>meters | Main boom length in meters |      |      |      |      |      |      |      |      |      |
|------------------------|----------------------------|------|------|------|------|------|------|------|------|------|
|                        | 10,0                       |      | 13,8 |      | 17,6 |      | 21,4 |      | 25,2 |      |
|                        | 0°                         | 40°  | 0°   | 40°  | 0°   | 40°  | 0°   | 40°  | 0°   | 40°  |
| 3,0                    | 3500                       |      | 3500 |      | 3500 |      |      |      |      |      |
| 4,0                    | 3500                       |      | 3500 |      | 3500 |      | 3200 |      |      |      |
| 5,0                    | 3500                       |      | 3500 |      | 3500 |      | 3200 |      | 2400 |      |
| 6,0                    | 3500                       |      | 3500 |      | 3500 |      | 3200 |      | 2400 |      |
| 7,0                    | 3300                       |      | 3400 |      | 3400 |      | 3200 |      | 2400 |      |
| 8,0                    | 3100                       |      | 3300 |      | 3300 |      | 3100 |      | 2400 |      |
| 9,0                    | 2800                       |      | 3100 |      | 3100 |      | 3000 |      | 2400 |      |
| 10,0                   | 2600                       | 1700 | 2900 | 1700 | 3000 |      | 2800 |      | 2400 |      |
| 11,0                   | 2500                       | 1600 | 2700 | 1700 | 2800 | 1700 | 2700 |      | 2400 |      |
| 12,0                   | 2300                       | 1600 | 2500 | 1700 | 2700 | 1700 | 2600 | 1600 | 2400 |      |
| 13,0                   | 2100                       | 1500 | 2400 | 1600 | 2600 | 1600 | 2500 | 1600 | 2400 | 1500 |
| 14,0                   | 2000                       | 1500 | 2300 | 1600 | 2400 | 1600 | 2400 | 1500 | 2400 | 1500 |
| 15,0                   | 1900                       | 1400 | 2100 | 1500 | 2300 | 1500 | 2300 | 1500 | 2200 | 1400 |
| 16,0                   | 1800                       | 1400 | 2000 | 1500 | 2200 | 1500 | 2200 | 1400 | 2100 | 1400 |
| 17,0                   | 1700                       | 1300 | 1900 | 1400 | 2100 | 1500 | 2100 | 1400 | 2000 | 1400 |
| 18,0                   | 1600                       |      | 1800 | 1400 | 2000 | 1400 | 2000 | 1400 | 2000 | 1400 |
| 19,0                   | 1500                       |      | 1700 | 1400 | 1900 | 1400 | 1900 | 1300 | 1900 | 1300 |
| 20,0                   |                            |      | 1600 | 1400 | 1800 | 1400 | 1900 | 1300 | 1800 | 1300 |
| 21,0                   |                            |      | 1500 |      | 1700 | 1400 | 1800 | 1300 | 1800 | 1300 |
| 22,0                   |                            |      | 1400 |      | 1700 | 1300 | 1600 | 1300 | 1600 | 1300 |
| 23,0                   |                            |      |      |      | 1500 | 1300 | 1500 | 1300 | 1400 | 1300 |
| 24,0                   |                            |      |      |      | 1400 |      | 1300 | 1300 | 1200 | 1200 |
| 25,0                   |                            |      |      |      | 1300 |      | 1100 | 1300 | 1100 | 1200 |
| 26,0                   |                            |      |      |      |      |      | 1000 | 1200 | 900  | 1200 |
| 27,0                   |                            |      |      |      |      |      | 900  |      | 800  | 1100 |
| 28,0                   |                            |      |      |      |      |      | 800  |      | 700  | 1000 |
| 29,0                   |                            |      |      |      |      |      |      |      | 600  | 900  |
| 30,0                   |                            |      |      |      |      |      |      |      | 600  | 800  |

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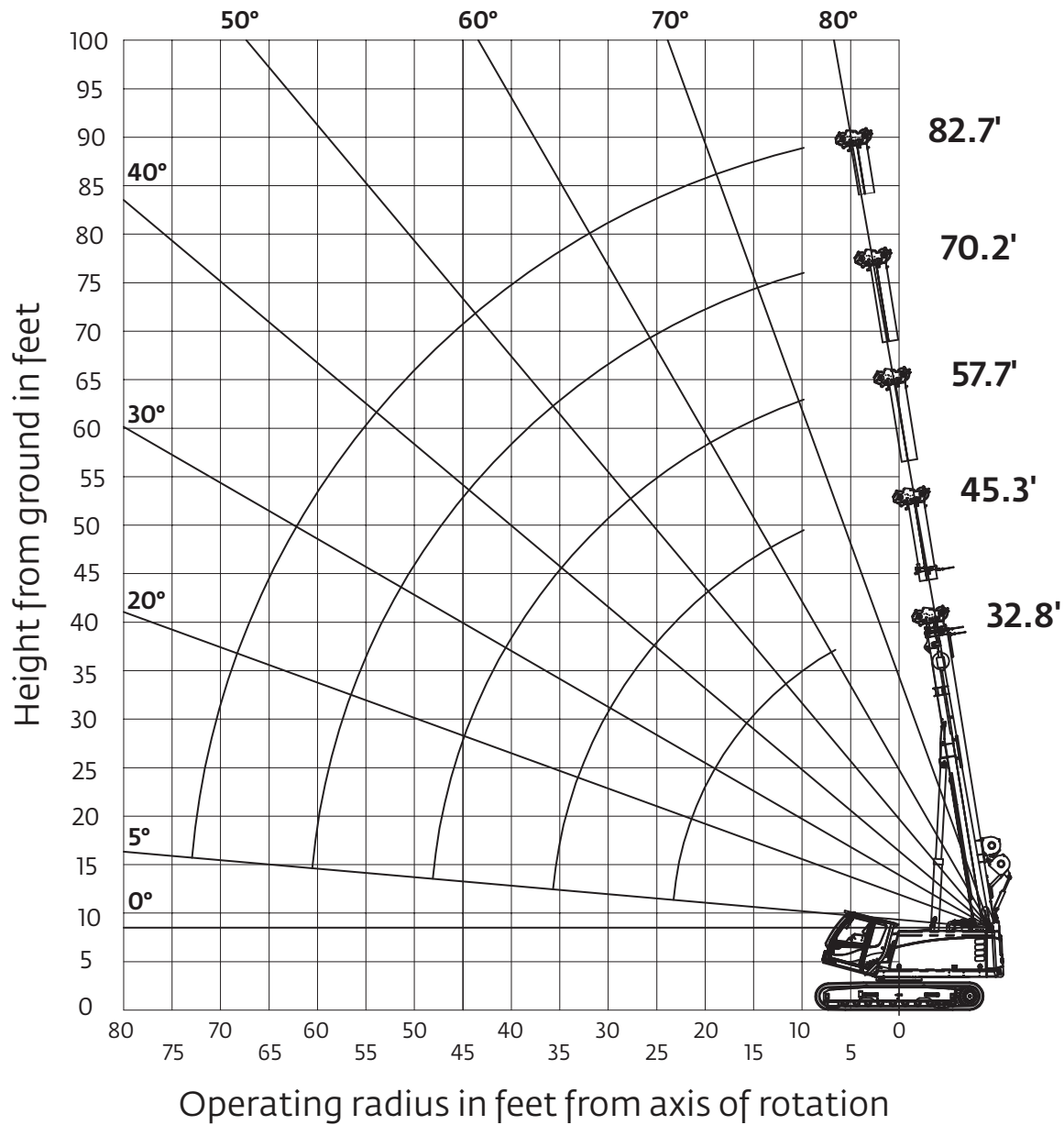
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# Working range

Main boom – imperial 75%

## Main boom

(BOOM DEFLECTION NOT SHOWN)



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# Load chart

Main boom – imperial 75%



82.7 ft



11,025 lb



100%



360°



Pounds

| Radius in feet                                                                            | Main boom length in feet |                  |                |                |                |
|-------------------------------------------------------------------------------------------|--------------------------|------------------|----------------|----------------|----------------|
|                                                                                           | 32.8                     | 45.3             | 57.7           | 70.2           | 82.7           |
| 10                                                                                        | 60,000                   | 41,900           | 41,800         | 31,200         | 22,700         |
| 15                                                                                        | 46,800                   | 41,300           | 38,600         | 27,600         | 21,000         |
| 20                                                                                        | 29,300                   | 30,200           | 29,400         | 23,600         | 18,800         |
| 25                                                                                        | —                        | 20,900           | 21,200         | 20,500         | 16,600         |
| 30                                                                                        | —                        | 15,500           | 15,900         | 16,000         | 14,900         |
| 35                                                                                        | —                        | —                | 12,300         | 12,600         | 12,800         |
| 40                                                                                        | —                        | —                | 9700           | 10,100         | 10,100         |
| 45                                                                                        | —                        | —                | 8000           | 8200           | 8200           |
| 50                                                                                        | —                        | —                | —              | 6800           | 6800           |
| 55                                                                                        | —                        | —                | —              | 5700           | 5800           |
| 60                                                                                        | —                        | —                | —              | —              | 4900           |
| 65                                                                                        | —                        | —                | —              | —              | 4100           |
| 70                                                                                        | —                        | —                | —              | —              | 3400           |
| When 21.3 ft extension is in stowed position, the rated loads must be reduced as follows: |                          |                  |                |                |                |
| Reduction of load (lb)                                                                    | 948                      | 694              | 540            | 452            | 375            |
| When 42.7 ft extension is in stowed position, the rated loads must be reduced as follows: |                          |                  |                |                |                |
| Reduction of load (lb)                                                                    | 1279                     | 937              | 739            | 606            | 518            |
| Lifting capacities at 5° boom angle                                                       |                          |                  |                |                |                |
| Boom Angle                                                                                | Main Boom Length in Feet |                  |                |                |                |
|                                                                                           | 32.8                     | 45.3             | 57.7           | 70.2           | 82.7           |
| 5°                                                                                        | 23,100<br>(23.3)         | 11,700<br>(35.8) | 7300<br>(48.2) | 4600<br>(60.7) | 2400<br>(73.2) |

NOTE: ( ) reference radii in feet.

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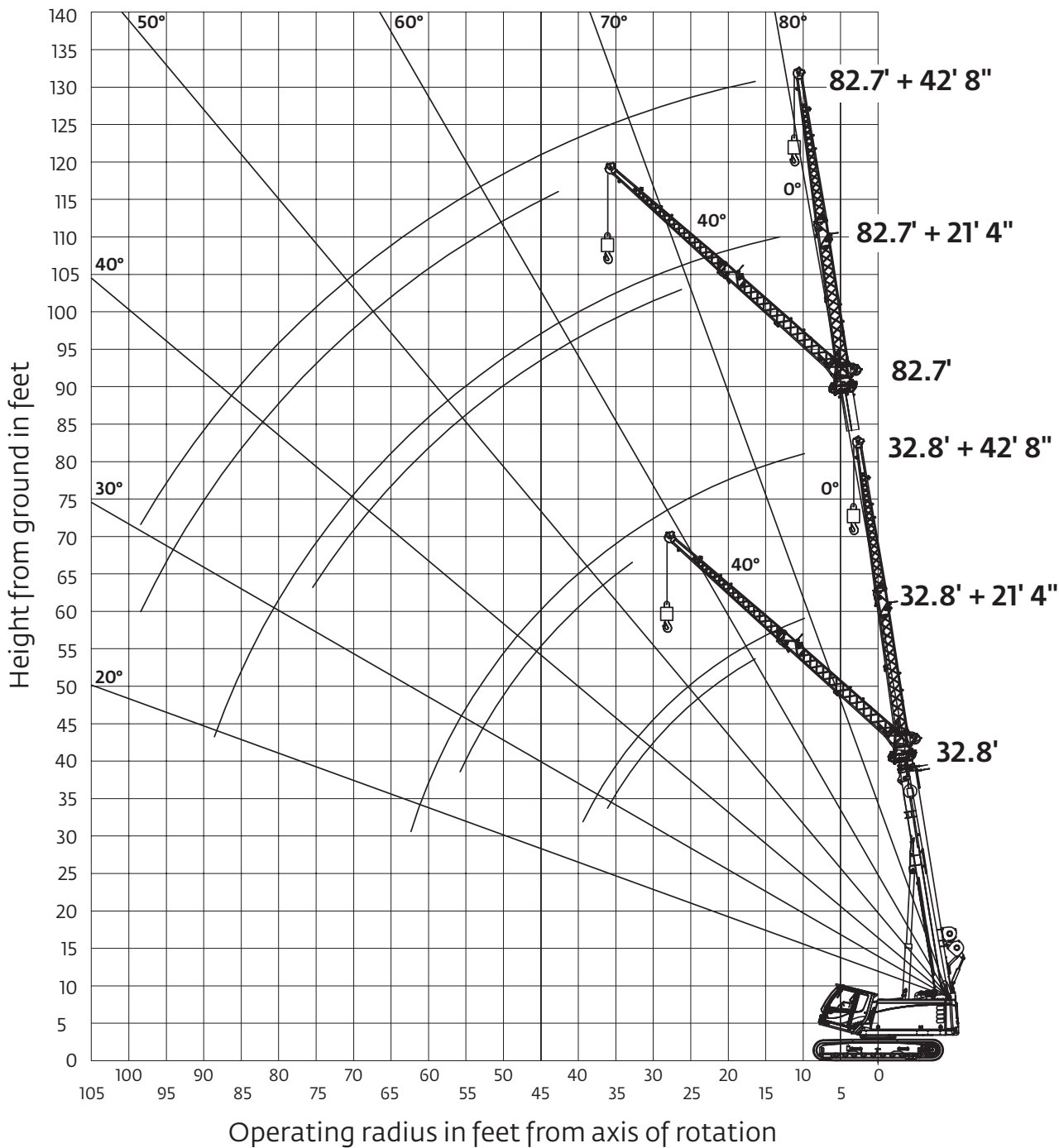
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# Working range

Extensions – imperial 75%

## Main boom with extensions

(BOOM DEFLECTION NOT SHOWN)



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# Load chart

Extensions – imperial 75%



82.7 ft



21 ft 4 in



11,025 lb



100%



360°



Pounds

| Radius<br>in<br>feet | Main boom length in feet |      |        |      |        |      |        |      |        |      |
|----------------------|--------------------------|------|--------|------|--------|------|--------|------|--------|------|
|                      | 32.8                     |      | 45.3   |      | 57.7   |      | 70.2   |      | 82.7   |      |
|                      | 0°                       | 40°  | 0°     | 40°  | 0°     | 40°  | 0°     | 40°  | 0°     | 40°  |
| 10                   | 15,400                   | —    | 15,400 | —    | 15,400 | —    | 15,400 | —    | —      | —    |
| 15                   | 15,300                   | —    | 15,400 | —    | 15,400 | —    | 15,300 | —    | 12,600 | —    |
| 20                   | 14,600                   | 9000 | 15,200 | 9200 | 15,400 | 9200 | 14,700 | —    | 12,100 | —    |
| 25                   | 12,600                   | 8500 | 14,400 | 8800 | 14,900 | 8900 | 13,900 | 8700 | 11,500 | —    |
| 30                   | 11,100                   | 7900 | 13,100 | 8300 | 14,000 | 8600 | 12,700 | 8300 | 10,700 | 8100 |
| 35                   | 9800                     | 7800 | 11,700 | 8000 | 12,500 | 8200 | 11,800 | 8000 | 9900   | 7900 |
| 40                   | —                        | —    | 10,300 | 7700 | 10,300 | 7900 | 10,300 | 7700 | 9100   | 7700 |
| 45                   | —                        | —    | 8500   | 7300 | 8500   | 7600 | 8200   | 7600 | 8300   | 7500 |
| 50                   | —                        | —    | 7100   | —    | 6800   | 7200 | 7400   | 7500 | 6700   | 7200 |
| 55                   | —                        | —    | —      | —    | 5700   | 6300 | 6700   | 7300 | 5700   | 6400 |
| 60                   | —                        | —    | —      | —    | 4900   | —    | 6100   | 6900 | 4900   | 5500 |
| 65                   | —                        | —    | —      | —    | —      | —    | 5600   | 6300 | 3900   | 4700 |
| 70                   | —                        | —    | —      | —    | —      | —    | 4600   | 5300 | 3200   | 3800 |
| 75                   | —                        | —    | —      | —    | —      | —    | 4000   | 4600 | 2700   | 3100 |
| 80                   | —                        | —    | —      | —    | —      | —    | 3700   | —    | 2000   | —    |
| 85                   | —                        | —    | —      | —    | —      | —    | 3300   | —    | 1600   | —    |
| 90                   | —                        | —    | —      | —    | —      | —    | 3100   | —    | —      | —    |
| 95                   | —                        | —    | —      | —    | —      | —    | 2800   | —    | —      | —    |

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# Load chart

Extensions – imperial 75%



82.7 ft



42 ft 8 in



11,025 lb



100%



360°



Pounds

| Radius<br>in<br>feet | Main boom length in feet |      |      |      |      |      |      |      |      |      |
|----------------------|--------------------------|------|------|------|------|------|------|------|------|------|
|                      | 32.8                     |      | 45.3 |      | 57.7 |      | 70.2 |      | 82.7 |      |
|                      | 0°                       | 40°  | 0°   | 40°  | 0°   | 40°  | 0°   | 40°  | 0°   | 40°  |
| 10                   | 7700                     | —    | 7700 | —    | 7700 | —    | —    | —    | —    | —    |
| 15                   | 7700                     | —    | 7700 | —    | 7700 | —    | 7100 | —    | —    | —    |
| 20                   | 7700                     | —    | 7700 | —    | 7700 | —    | 7100 | —    | 5300 | —    |
| 25                   | 7000                     | —    | 7400 | —    | 7400 | —    | 6900 | —    | 5300 | —    |
| 30                   | 6100                     | —    | 6800 | —    | 6800 | —    | 6600 | —    | 5300 | —    |
| 35                   | 5600                     | 3600 | 6100 | 3700 | 6300 | —    | 6000 | —    | 5300 | —    |
| 40                   | 5000                     | 3500 | 5500 | 3700 | 5900 | 3700 | 5700 | 3500 | 5300 | —    |
| 45                   | 4500                     | 3300 | 5100 | 3500 | 5400 | 3500 | 5400 | 3400 | 5300 | 3300 |
| 50                   | 4100                     | 3100 | 4600 | 3300 | 5000 | 3300 | 5000 | 3300 | 4800 | 3100 |
| 55                   | 3800                     | 2900 | 4200 | 3100 | 4700 | 3300 | 4700 | 3100 | 4500 | 3100 |
| 60                   | 3500                     | —    | 3900 | 3100 | 4300 | 3100 | 4300 | 3000 | 4300 | 3000 |
| 65                   | —                        | —    | 3600 | 3100 | 4000 | 3100 | 4200 | 2900 | 4000 | 2900 |
| 70                   | —                        | —    | 3200 | —    | 3700 | 3000 | 3800 | 2900 | 3800 | 2900 |
| 75                   | —                        | —    | —    | —    | 3400 | 2900 | 3300 | 2900 | 3100 | 2900 |
| 80                   | —                        | —    | —    | —    | 3000 | —    | 2700 | 2900 | 2600 | 2600 |
| 85                   | —                        | —    | —    | —    | —    | —    | 2200 | 2700 | 2000 | 2600 |
| 90                   | —                        | —    | —    | —    | —    | —    | 1900 | —    | 1700 | 2300 |
| 95                   | —                        | —    | —    | —    | —    | —    | —    | —    | 1300 | 2000 |

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# Load handling

| Weight reductions for load handling devices        |                       |                                   |
|----------------------------------------------------|-----------------------|-----------------------------------|
| 6,5 m - 13,0 m (21.3 ft - 42.7 ft) Boom extension: |                       |                                   |
|                                                    | Without block or ball | With 80 kg (176 lb) headache ball |
| *6,5 m (21.3 ft) extension (erected)               | 789 kg (1739 lb)      | 927 kg (2044 lb)                  |
| *13,0 m (42.7 ft) extension (erected)              | 1304 kg (2874 lb)     | 1497 kg (3300 lb)                 |
| Hook blocks and Headache ball:                     |                       |                                   |
| 35 t (38.5 USt), 5-sheave                          |                       | 400 kg+ (882 lb+)                 |
| 25 t (27.5 USt), 3-sheave                          |                       | 220 kg+ (485 lb+)                 |
| 4 t (4.4 USt), headache ball                       |                       | 80 kg+ (176 lb+)                  |

\*Reduction of main boom capacities  
+Refer to rating plate for actual weight

When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.

**NOTE:** All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

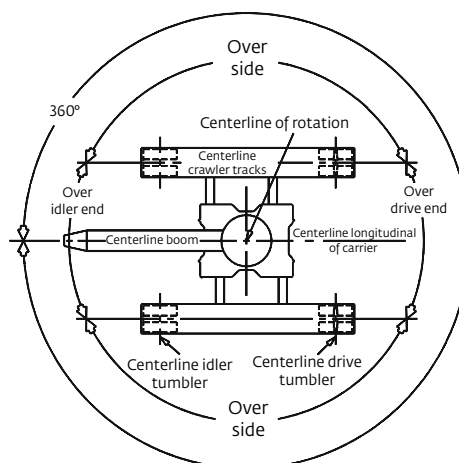
| Line pulls and reeving information |                                                 |                        |                                 |
|------------------------------------|-------------------------------------------------|------------------------|---------------------------------|
| Hoists                             | Cable specs                                     | Permissible line pulls | Nominal cable length            |
| Main and auxiliary                 | 14 mm Verotop Rotation Resistant (non-rotating) | 3500 kg (7716 lb*)     | 160 m (525 ft)<br>80 m (262 ft) |

The approximate weight of Verotop 14 mm wire rope is 1.0 kg/m (0.67 lb/ft).

\*With certain boom and hoist tackle combinations, the allowable line pull may be limited by hoist performance. Refer to Hoist Performance table for lift planning to ensure adequate hoist performance on drum rope layer required.

| Hoist performance                                       |                   |                    |                    |
|---------------------------------------------------------|-------------------|--------------------|--------------------|
| Wire rope layer                                         | Hoist line pulls  | Drum rope capacity |                    |
|                                                         | Available*        | Layer              | Total              |
| 1                                                       | 4313 kg (9509 lb) | 28.7 m (94.1 ft)   | 28.7 m (94.1 ft)   |
| 2                                                       | 4040 kg (8906 lb) | 30.2 m (99 ft)     | 59.3 m (194.6 ft)  |
| 3                                                       | 3799 kg (8375 lb) | 31.7 m (103.9 ft)  | 91.9 m (301.4 ft)  |
| 4                                                       | 3585 kg (7903 lb) | 33.2 m (108.8 ft)  | 126.4 m (414.6 ft) |
| 5                                                       | 3394 kg (7482 lb) | 34.7 m (113.7 ft)  | 162.8 m (534.2 ft) |
| *Max lifting capacity: Verotop rope = 3500 kg (7716 lb) |                   |                    |                    |

## Working area diagram



# Specifications

## Upper carriage



### Standard boom

10 m - 25,2 m (33 ft - 83 ft) three-section, full power, synchronized, telescopic boom.  
Maximum tip height: 27,1 m (89 ft)



### \*Optional boom extension

6,5 m (21 ft 4 in) lattice, one piece swingaway extension.  
Manually offset at 0° and 40°.  
Maximum tip height: 34 m (111 ft 6 in).

13 m (42 ft 8 in) lattice, bi-fold, swingaway extension.  
Manually offset at 0° and 40°.  
Maximum tip height: 40,2 m (132 ft).



### Boom nose

Five nylatron sheaves on heavy-duty roller bearings with removable rope guards. Quick reeve type boom nose.



### Boom elevation

One double-acting hydraulic cylinder with integral holding valves.  
Elevation: -7° to 80°



### Rated capacity limiter and anti-two block system

Load moment and independent anti-two block system with audio visual warning and control lever lock-out. These systems provide graphic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition with lock-out hoist function.



### Counterweight

5000 kg (11,025 lb) - includes two removable counterweight inserts weighing 400 kg (882 lb) each.



### Cab

Large capacity operator's compartment that includes an air suspended operator's seat with lumbar support, heated seat, headrest, 3 inch safety belt, ergonomic control panels, load sensing electric dual axis joystick controls, travel pedals and levers, exceptional sound insulation, split cab door with fold out window, excellent all around visibility, tinted safety glass, front and rear tilt out window, large skylight w/ sun protection, windshield and roof wiper/washer system, radio with USB input and Bluetooth, climate control (A/C, heat and defrost), fire extinguisher, and 15° tilt capability for improved overhead vision and ergonomic posture. Also equipped with a 7 inch monitor in cab for rear view, right side and hoist cameras.



### Swing

Two-speed, compact planetary gears with slant axis hydraulic motor and integrated brake valves. Sealed, externally geared slewing ring that allows for 360° of continuous rotation. Electronically applied service brake operated via foot pedal. Spring applied, hydraulically released parking brake. One position, hydraulically pinned house lock.  
Swing speed: 0 - 2.2 rpm, variable



### Hydraulic system

Load sensing hydraulic system with electronic over hydraulic controlled work functions, and load limit sensing control. Single variable-displacement piston pump with a two-section gear pump.  
Maximum output: 315 lpm (83.2 gpm)  
Maximum operating pressure: 330 bar (4,786 psi)  
510 L (134 gal) steel hydraulic reservoir with sight level gauge. High performance, 3 micron filtration system for higher oil purity and extended oil service life.



### Hoist specifications

#### (main and optional auxiliary)

Single-speed hoists driven via driven via an inclined axis hydraulic motor with compact planetary gear. Spring-loaded disc brake. Grooved drum with drum rotation indicator for both hoists that is located in the joystick controls.  
Maximum hoist pull (first layer): 4309 kg (9500 lb)  
Maximum permissible single line pull: 3500 kg (7716 lb)  
Maximum single line speed: 113 m/min (371 ft/ min)  
Rope construction: 35 X 7 Rotation Resistant  
Rope diameter: 14 mm  
Rope length: 160 m (525 ft) on main  
80 m (262 ft) on axillary



### Engine (Tier 4)

Cummins QSB 4.5 L diesel, four cylinders, turbocharged with Cummins Diesel Oxidation Catalyst (DOC) exhaust and Selective Catalytic Reduction (SCR).  
Meets USEPA Tier 4 final requirements.  
129 kW (173 bhp) at 2500 rpm.  
Fuel requirements: Maximum of 15 ppm sulphur content (ultra-low diesel fuel). DEF (diesel exhaust fluid) required for SCR (selective catalytic reduction).  
NOTE: Tier 4 engine required for sale in North America.



### Engine (Tier 3)

Cummins QSB 4.5 L diesel, four cylinders, turbocharged rated at 119 kW (160 bhp) at 2200 rpm.  
NOTE: Required for sale outside of North America.



### Fuel tank capacity

Diesel Fuel: 360 L (95 gal)  
DEF (diesel exhaust fluid): 38 L (10 gal)



### Electrical system

24 volt with two 12-volt, maintenance-free batteries. Includes battery disconnect switch.



### Lights

Lighting package includes two halogen lights integrated into the front side of the cab roof and one LED headlight on the upper carriage, right side.

# Specifications

## Lower carriage



### Frame

Durable all steel welded construction with extendable axle beams.



### Side frames

Four steel side frame beams that can be hydraulically extended or retracted via controls in the cab. 700 mm (28 in) triple bar maintenance free track shoes.

Retracted gauge: 2,30 m (7.5 ft)

Intermediate gauge: 3,05 m (10 ft)

Extended gauge: 3,80 m (12.5 ft)

\*Note: These widths are from centerline to centerline of crawlers.



### Travel

Two-speed hydrostatic drive operated via lever/pedal controls in cab. Allows for excellent maneuverability with skid steering and counter-rotation. Both side frames are hydraulically driven through a two-stage hydraulic traction motor. Spring-loaded, hydraulically venting disk brake.

Travel Speed: Max Low Range – 1.72 kmh (1.07 mph)

Max High Range – 3 kmh (1.86 mph)

Gradeability (theoretical): 70%

### Operating weight

Approximately 33 820 kg (74,560 lb) base machine configuration with 25,2 m (83 ft) boom, 13 m (42 ft 8 in) bi-fold boom extension, 2 hoists, 700 mm (28 in) triple bar shoes, 5 t (11,025 lb) counterweight and 25 t (27.5 USt) hook block. Ground bearing pressure: 0.54 kg/cm<sup>2</sup> (7.68 psi)

### Miscellaneous standard equipment

- Central, easily accessible lubricating strip for slewing ring
- Foldable grated platforms on the side of cab and both sides of the upper carriage
- Storage box attached to the rear frame
- Service friendly engine and hydraulic compartments with decoupled engine suspension, sound proofing and lighting
- 25 t (27.5 USt) three-sheave, quick reeve hook block
- External RCL light bar

### \*Optional equipment

- Auger Ready Package: Includes hoses and pipes at the base boom, auger hydraulic circuit 150 L/min (39 gpm), 175 bar (2500 psi), controls and switches in the cab for auger operation
- Auger Motor and Kelly Bar: Includes stowage brackets, hydraulic hoses to connect to the auger ready package plumbing, the auger motor and Kelly bar
- Auger Flightings: 609 mm (24 in), 914 mm (36 in) and 1219 mm (48 in) available
- Pole Claw Preparation / Tool Circuit: Provides 35 L/min (9 gpm), 175 bar (2500 psi) through a 32 m (105 ft) hose reel with quick disconnect fittings, switch for tilting and clamping function, controls and switches in the cab.
- Pole claw
- Basket: Yoke style, 72 in x 36 in (1829 mm x 914 mm) steel basket, gravity hung with cylinder brake lock (does not side stow). Includes quick-attach boom attachments for the main boom and standard 6,5 m (21 ft 4 in) boom extension. Basket capacities: 544,3 kg (1200 lb) main boom and 226,7 kg (500 lb) on boom extension
- Radio remote control package
- Cold weather packages up to -40° C / -40° F
- Maintenance-free flat track shoes
- Swing barrier protection
- Polyurethane clamp-on tack pads
- CraneStar asset management system

# Symbols glossary



Boom



Counterweight



Grade



Radius



Boom elevation



Electrical system



Hoist



Rotation



Boom extension



Engine



Hook block



Side Frames



Boom length



Extension



Hydraulic system



Speed



Boom nose



Frame



Lights



Swing



Cab



Fuel tank capacity



Oil

## Notes





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