

# Grove TMS9000E

## Product Guide



### Features

- 90 t (110 USt) capacity
- 11,2 m - 43,4 m (36 ft - 142 ft) five-section full power boom
- Patented TWIN-LOCK™ boom pinning system
- 10 m - 17 m (33 ft - 56 ft) bi-fold lattice swingaway extension
- Optional lattice insert extensions for a 72,2 m (237 ft) maximum tip height
- Tilttable superstructure cab
- Up to 21 300 kg (48,500 lb) counterweight with hydraulic removal system



# Features

## MEGAFORM™ boom

The Grove MEGAFORM™ boom shape eliminates weight and increases capacity compared to conventional shapes. The unique TWIN-LOCK™ boom pinning system automatically pins the sections in position using two horizontal large diameter pins. A single cylinder inside the boom reduces weight which has been used elsewhere to strengthen the machine.



## Counterweight

Up to 21 999 kg (48,500 lb) of counterweight can be power installed and removed from the superstructure cab — allowing for easy transport to and from the job site.



## CraneSTAR

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.

## Crane control system

Crane functions are controlled by ECOS (Electronic Crane Operating System) with CAN-BUS. The EKS5 load moment indicator provides detailed feedback and control of the crane's operating functions.



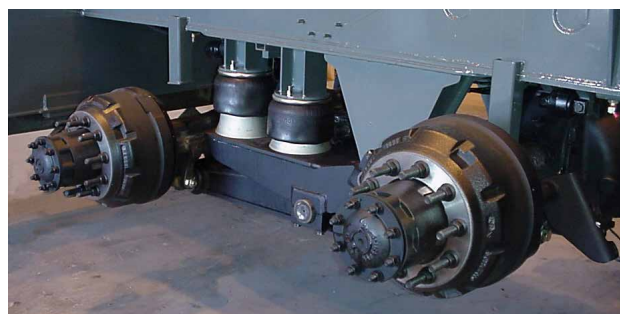
## Outriggers

Two-stage inverted jack outriggers provide three position settings – 0%, 50% and 100%.



## Power luffing extension

For improved up-and-over reach, a power luffing extension is available on the TMS9000E hydraulically offsettable from the superstructure cab, 5° to 40°.



## Suspension

Standard front and rear air ride suspension provides a comfortable ride at 105 kph (65 mph).

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# Specifications

## Superstructure



### Boom

11,2 m - 43,4 m (37 ft - 142 ft) five-section, full power boom with TWIN-LOCK™ boom pinning system. Maximum tip height: 45,8 m (150 ft).



### Boom nose

Five nylatron sheaves, mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve boom nose. Removable auxiliary boom nose with removable pin type rope guard.



### Boom elevation

Single lift cylinder with safety valve provides boom angle from -3° to +82°.



### Offsettable lattice extension

10 m - 17 m (33 ft - 56 ft) bi-fold lattice swingaway extension manual offset at 0°, 20°, and 40°. Maximum tip height: 63,1 m (207 ft).



### \*Optional offsettable lattice extension

10 m - 17 m (33 ft - 56 ft) bi-fold lattice swingaway extension hydraulically offset from 5° - 40°. Controlled from the crane cab. Maximum tip height: 63,1 m (207 ft).



### \*Lattice extension

Two 5 m (16 ft) inserts for use with lattice swingaway extension to increase length up to 21,9 m (72 ft) or 26,8 m (88 ft). Maximum tip height: 72,2 m (237 ft).



### Load moment and anti-two block system

Load moment and anti-two block system with audio/visual warning and control lever lockout provides electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.



## Cab

All aluminum construction cab with acoustical lining is hydraulically tiltable to +20° and includes tinted safety glass, adjustable operator's seat with hydraulic suspension, sliding windows in side and cab rear, hinged front window with wiper, sun visor and window shade. Other features include diesel heater/defroster, armrest integrated crane controls, and ergonomically arranged instrumentation.



## Crane control system

Full control of all crane movements using electrical control levers with automatic reset to zero. Controls are integrated with the LMI and engine management system by CAN-BUS. ECOS system with graphic display.



## Swing

Two planetary gear boxes with axial piston fixed displacement motors. Infinitely variable to 1.7 rpm. Holding brake and service brake.



## Counterweight

7258 kg (16,000 lb) consisting of various sections with hydraulic installation/removal system operated from the cab.

\*Optional "Heavy Lift" counterweight package consisting of (2) 4636 kg (10,000 lb) sections in addition to standard, for a total of 16 329 kg (36,000 lb).

\*Optional "XL" counterweight package consisting of (2) 1814 kg (4000 lb) and (2) 1021 kg (2250 lb) wing sections in addition to standard and "Heavy Lift" package, for a total of 21 999 kg (48,500 lb).



## Hydraulic system

2 separate circuits, 1 axial piston variable displacement pump (load sensing) with electronic power limiting control and 1 gear pump for swing. 2 thermostatically controlled oil coolers keep oil at optimum operating temperature. Tank capacity: 508 l (134 gal)



# Specifications

## Superstructure continued



### Hoist

Main and auxiliary hoists are powered by axial piston motor with planetary gear and brake. “Thumb-thumper” hoist drum rotation indicator alerts operator of hoist movement. Standard fifth wrap indication with shutoff.

Hoist line pull:

- 1st Layer: 10 034 kg (22,122 lb)
- 3rd Layer: 8466 kg (18,665 lb)
- 5th Layer: 7322 kg (16,142 lb)

Maximum line speed:

111 m/min (365 fpm)

Maximum permissible line pull:

7621 kg (15,700 lb) 34x7 Rotation Resistant

\*Optional 7784 kg (17,160 lb) 35X7 Class

Rope diameter: 19 mm (3/4")

Rope length: 225 m (738 ft)

Casar Eurolift/Endurance Dyform  
214 m (702 ft) 35X7 Flex-x

Maximum rope storage: 300 m (984 ft)

## Carrier



### Chassis

Triple box section, four-axle carrier, fabricated from high strength, low alloy steel with towing and tie-down lugs.



### Outrigger system

Four hydraulic telescoping, two-stage, double box beam outriggers with inverted jack and integral holding valves. Quick release type outrigger floats 610 mm (24 in) diameter. Three position setting with fully extended, intermediate (50%) extended and fully retracted capacities. 5th front jack with self-storing pad and automatic first-retract.

Outrigger Monitoring System (required for North America and Canada).

Maximum outrigger pad load: 49 442 kg (109,000 lb).



### Outrigger controls

Located in the superstructure cab and on either side of carrier. Crane level indicators located at all stations. Auto leveling standard.



### Engine- North America

Cummins ISX 11.9 six cylinder, turbo charged and after cooled diesel engine. 11.9 L (729 in<sup>3</sup>) 336 kW (450 bhp) at 1800 rpm. Maximum torque 2102 Nm (1550 lb-ft) at 1400 rpm. 2013 “On Highway” EPA, Carb compliant.

Equipped with engine compression brake, audio-visual engine distress system and ether start aid.

Fuel Requirement: Maximum of 15 ppm sulfur content (Ultra Low Sulfur Diesel). Diesel exhaust fluid required.



### Engine- Export

Cummins QSM 11 six cylinder, turbo charged and after cooled diesel engine. 10.8 L (660 in<sup>3</sup>), 300 kW (402 bhp) at 1800 rpm. Maximum torque 1898 Nm (1400 lb-ft) at 1400 rpm. “Off Highway” Tier III EPA, Carb and EU Stage IIIA compliant.

Equipped with engine compression brake, audio-visual engine distress system and ether start aid.

Fuel Requirement: Maximum of 5000 ppm sulfur content.



### Fuel tank capacity

376 L (100 gal)



### Transmission

Roadranger 11 speeds forward, 3 reverse, manual.



### Steering

Front axles, single circuit, mechanical steering with hydraulic power assist. Turning radius: 13,7 m (45.1 ft).



### Axles

**Front:** (2) beam-type steering axles, 2,12 m (83.4 in) track.

**Rear:** (2) single reduction drive axles, 1,89 m (74.5 in) track. Inter-axle differential locks.

Drive: 8 x 4 x 4.

# Specifications

## Carrier continued



### Brakes

S-cam, dual air split system operating on all wheels. Spring-applied, air released parking brake acting on rear axles. Air dryer. ABS with traction control.



### Suspension

**Front:** Walking beam with air bags and shock absorbers.  
**Rear:** Walking beam with air bags and shock absorbers.



### Tires

**Front:** 445/65R 22.5 tubeless, mounted on aluminum disc wheels.  
**Rear:** 315/80R 22.5 tubeless, mounted on aluminum disc outer wheels, inner wheels steel.



### Lights

Full lighting package including turn indicators, head, tail, brake, and hazard warning lights. Meets FMVSS and CMVSS standards.



### Cab

One man design, aluminum fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered seat with air adjustment. Complete driving controls and engine instrumentation including tilt telescope steering wheel, tachometer, speedometer, voltmeter, water temp., oil pressure, fuel level, air pressure gauge, engine high temp./low oil pressure A/V warning. Other standard items include hot water heater/defroster, electric windshield wash/wipe, fire extinguisher, seat belt and door lock.



### Electrical system

Four maintenance-free batteries provide 24 V electrical system. Standard battery disconnect.



### Maximum speed

105 kph (65 mph)



### Gradeability (theoretical)

70%

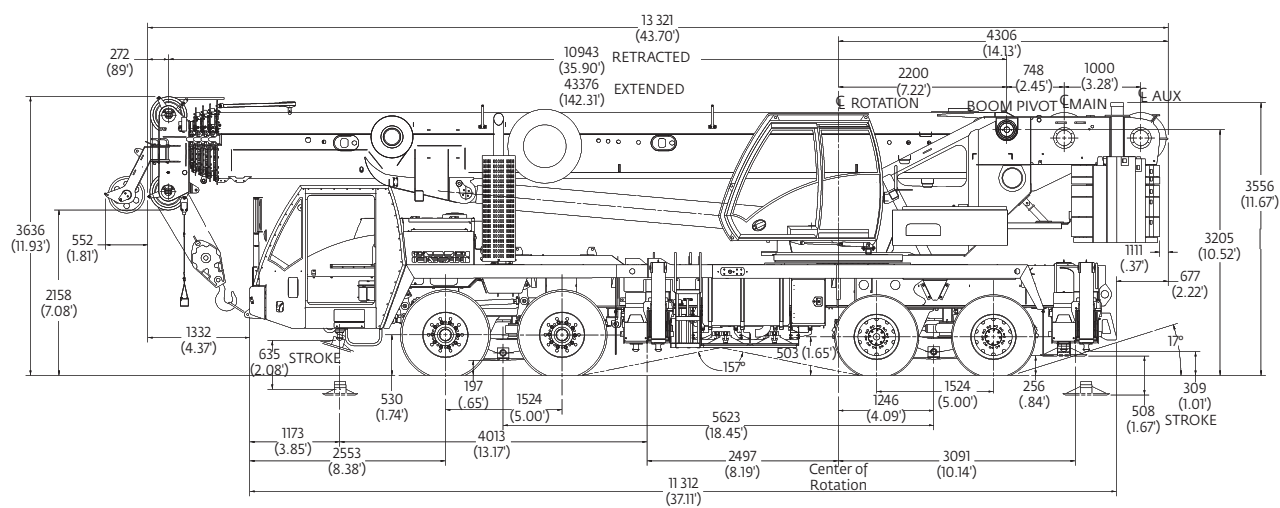
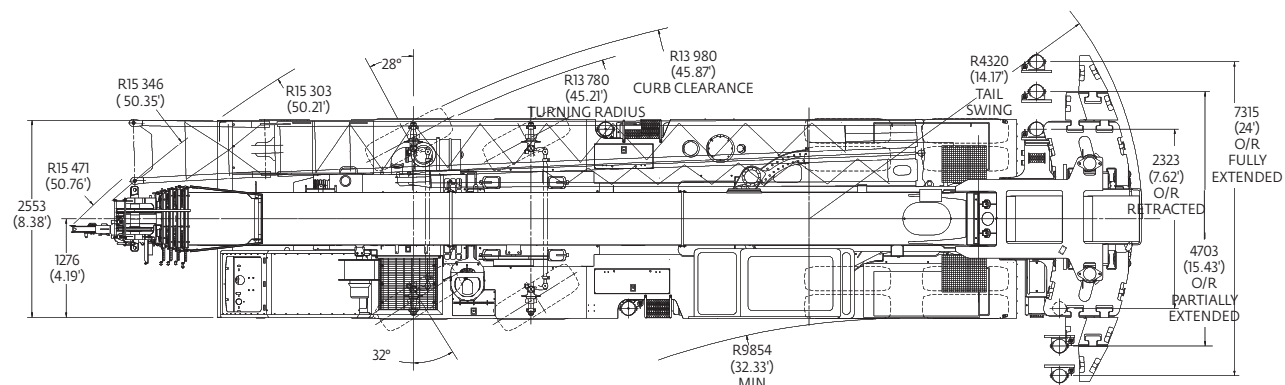
### Miscellaneous standard equipment

Aluminum fenders with rear storage compartments; dual rear view mirrors; electronic back-up alarm; sling/tool box; tire inflation kit; air cleaner restriction indicator; headache ball stowage; air conditioning; traction control; air horn; hoist access platform; CraneSTAR asset management system.

### \*Optional equipment

- ▶ Auxiliary Lighting and Convenience Package: Includes amber strobe light for superstructure and carrier cab, and boom mounted aircraft warning light (fully wired)
- ▶ Dual boom base mounted floodlights
- ▶ Hook blocks
- ▶ Pintle hook (rear)
- ▶ Trailing Boom Package
- ▶ Aluminum outrigger pads
- ▶ Counterweight packages
- ▶ Tow cable
- ▶ Wind speed indicator
- ▶ Winterfront radiator cover
- ▶ Additional storage
- ▶ Counterweight slings
- ▶ Cross axle differential locks
- ▶ 360° house lock

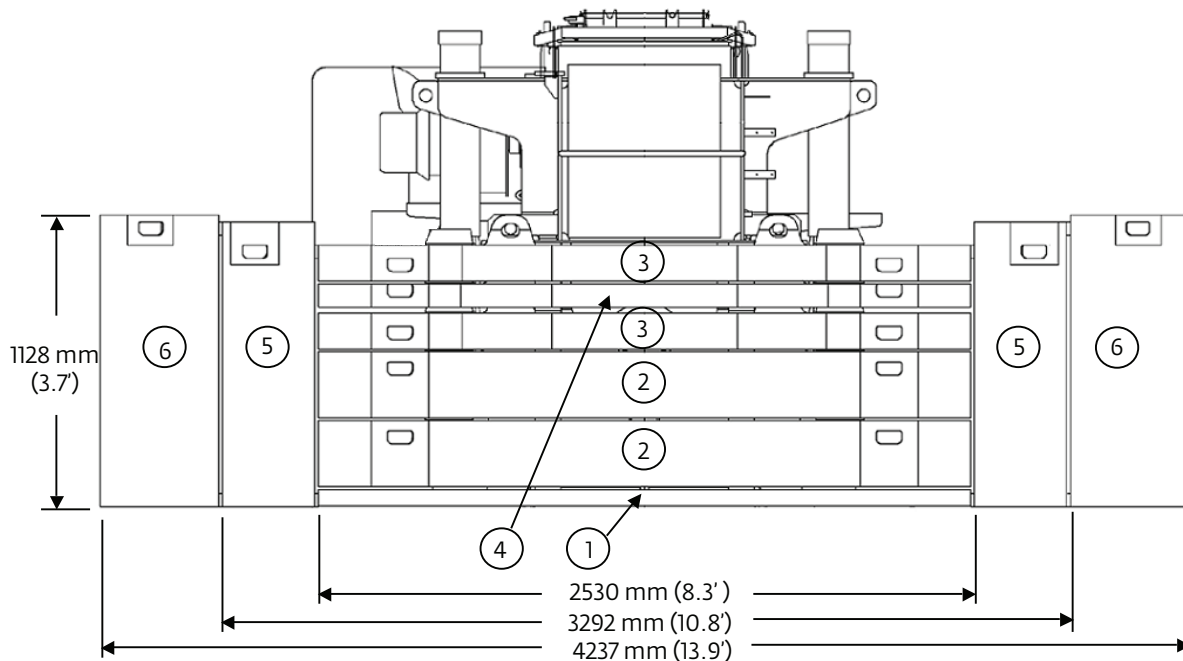
# Dimensions



Dimensions shown in mm (ft)

# Counterweight

## Counterweight configurations



- 1. 1361 kg (3000 lb) baseplate
- 2. 4536 kg (10,000 lb) stackable
- 3. 2268 kg (5000 lb) pinned or stackable
- 4. 1361 kg (3000 lb) pinned or stackable
- 5. 1814 kg (4000 lb) wing
- 6. 1021 kg (2250 lb) wing

| Load chart configurations |   |    |    |   |    |    |
|---------------------------|---|----|----|---|----|----|
|                           | 1 | 2  | 3  | 4 | 5  | 6  |
| 0                         |   |    |    |   |    |    |
| 2722 kg (6000 lb)         | X |    |    | X |    |    |
| 4990 kg (11,000 lb)       | X |    | X  | X |    |    |
| 7258 kg (16,000 lb)       | X |    | 2X | X |    |    |
| 9525 kg (21,000 lb)       | X | X  | X  | X |    |    |
| 11 793 kg (26,000 lb)     | X | X  | 2X | X |    |    |
| 16 329 kg (36,000 lb)     | X | 2X | 2X | X |    |    |
| 19 958 kg (44,000 lb)     | X | 2X | 2X | X | 2X |    |
| 21 999 kg (48,500 lb)     | X | 2X | 2X | X | 2X | 2X |

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.

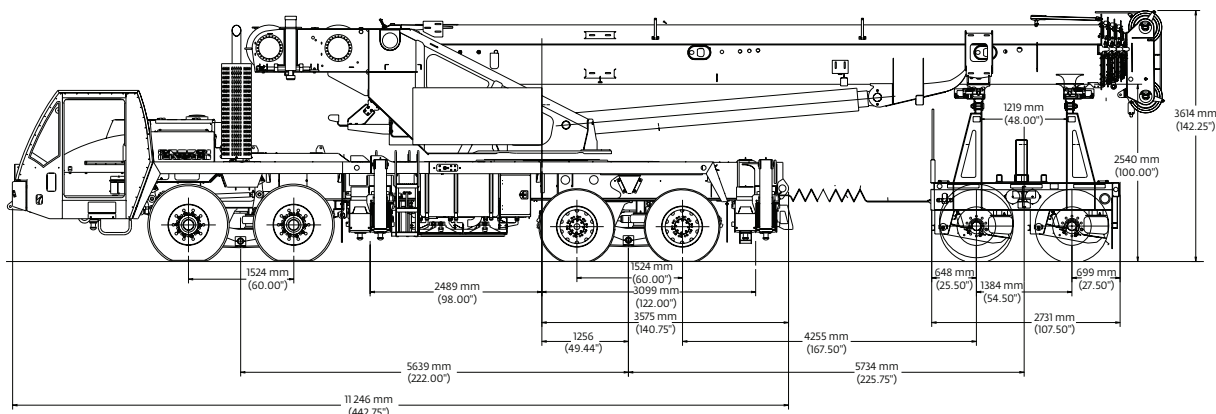


# Travel proposals

## Boom over front

|                                                                                                                                                                                                                                            | Front     |           | Rear      |           | G.V.W.    |            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|------------|
| <b>Basic machine:</b> Includes ISX11.9 2013 on-highway engine, main and auxiliary hoists with rope, auxiliary boom nose, manual bifold swingaway, headache ball stowed, 36,3 t (40 USt) hook block at bumper, no counterweight and driver. | 20 631 kg | 45,484 lb | 18 358 kg | 40,472 lb | 38 989 kg | 85,956 lb  |
| <b>Add:</b> 1361 kg (3000 lb) counterweight on carrier deck and 1361 kg (3000 lb) counterweight on superstructure. Total counterweight 2722 kg (6000 lb).                                                                                  | 21 242 kg | 46,831 lb | 20 486 kg | 45,163 lb | 41 728 kg | 91,994 lb  |
| <b>Add:</b> 1361 kg (3000 lb) counterweight on carrier deck and 2722 kg (6000 lb) counterweight on superstructure. Total counterweight 4082 kg (9000 lb).                                                                                  | 20 661 kg | 45,550 lb | 22 436 kg | 49,463 lb | 43 097 kg | 95,013 lb  |
| <b>Add:</b> 3629 kg (8000 lb) counterweight on carrier deck and 3629 kg (8000 lb) counterweight on superstructure. Total counterweight 7257 kg (16,000 lb).                                                                                | 22 258 kg | 49,071 lb | 24 023 kg | 52,961 lb | 46 281 kg | 102,032 lb |
| <b>Add:</b> 5897 kg (13,000 lb) counterweight, 5897 kg (13,000 lb) counterweight on superstructure. Boom telescoped 0,3 m (1 ft). Total counterweight 11 793 kg (26,000 lb).                                                               | 23 259 kg | 51,277 lb | 27 567 kg | 60,775 lb | 50 817 kg | 112,032 lb |
| Air conditioning - chassis and superstructure cabs                                                                                                                                                                                         | 35 kg     | 78 lb     | 10 kg     | 22 lb     | 45 kg     | 100 lb     |
| Hydraulic bi-fold swingaway in lieu of the manual swingaway                                                                                                                                                                                | 185 kg    | 408 lb    | -6 kg     | -13 lb    | 179 kg    | 395 lb     |
| QSM11 off-highway engine in lieu of standard ISX11.9 2013                                                                                                                                                                                  | -374 kg   | -824 lb   | 44 kg     | 97 lb     | -330 kg   | -727 lb    |
| Maximum Allowable                                                                                                                                                                                                                          | 22 317 kg | 49,200 lb | 27216 kg  | 60,000 lb | 49 532 kg | 109,200 lb |
| Michelin Tires                                                                                                                                                                                                                             | 23 224 kg | 51,200 lb | 27 216 kg | 60,000 lb | 50 440 kg | 111,200 lb |

## Trailing boom dolly



## Unit configuration

|                                                                                                                                                                                                                                                                                     | Front     |           | Rear      |           | Boom Dolly |           | G.V.W.    |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|------------|-----------|-----------|------------|
| <b>Basic machine:</b> Includes ISX11.9 2013 on-highway engine, main and auxiliary hoists with rope, auxiliary boom nose, manual bifold swingaway, stowed headache ball, 36,3 t (40 USt) hook block hanging at boom nose, no counterweight, driver and 2722 kg (6000 lb) boom dolly. | 17 085 kg | 37,665 lb | 14 544 kg | 32,065 lb | 10 202 kg  | 22,491 lb | 41 831 kg | 92,221 lb  |
| <b>Add:</b> 2722 kg (6000 lb) counterweight on front chassis deck, 2268 kg (5000 lb) counterweight on rear chassis counterweight carrier, 6804 kg (15,000 lb) on boom dolly. Total counterweight 11 793 kg (26,000 lb).                                                             | 18 708 kg | 41,243 lb | 17 937 kg | 39,544 lb | 17 014 kg  | 37,510 lb | 53 659 kg | 118,297 lb |
| <b>Add:</b> 3629 kg (8000 lb) counterweight on front chassis deck, 2268 kg (5000 lb) counterweight on rear chassis counterweight carrier, 10 433 kg (23,000 lb) on boom dolly. Total counterweight 16 692 kg (36,000 lb).                                                           | 19 497 kg | 42,984 lb | 18 054 kg | 39,803 lb | 20 660 kg  | 45,548 lb | 58 257 kg | 128,435 lb |
| Air conditioning - chassis and superstructure cabs                                                                                                                                                                                                                                  | 38 kg     | 83 lb     | 8 kg      | 17 lb     | -          | -         | 46 kg     | 100 lb     |
| Hydraulic bi-fold swingaway in lieu of the manual swingaway (includes hose reel)                                                                                                                                                                                                    | 29 kg     | 64 lb     | 18 kg     | 39 lb     | 132 kg     | 291 lb    | 133 kg    | 292 lb     |
| QSM11 off-highway engine in lieu of standard ISX11.9 2013                                                                                                                                                                                                                           | -374 kg   | -824 lb   | 44 kg     | 97 lb     | -          | -         | -330 kg   | -727 lb    |

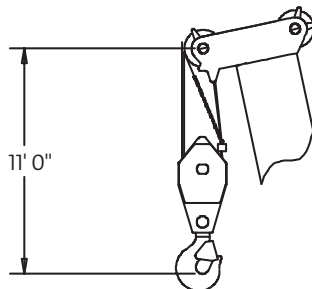
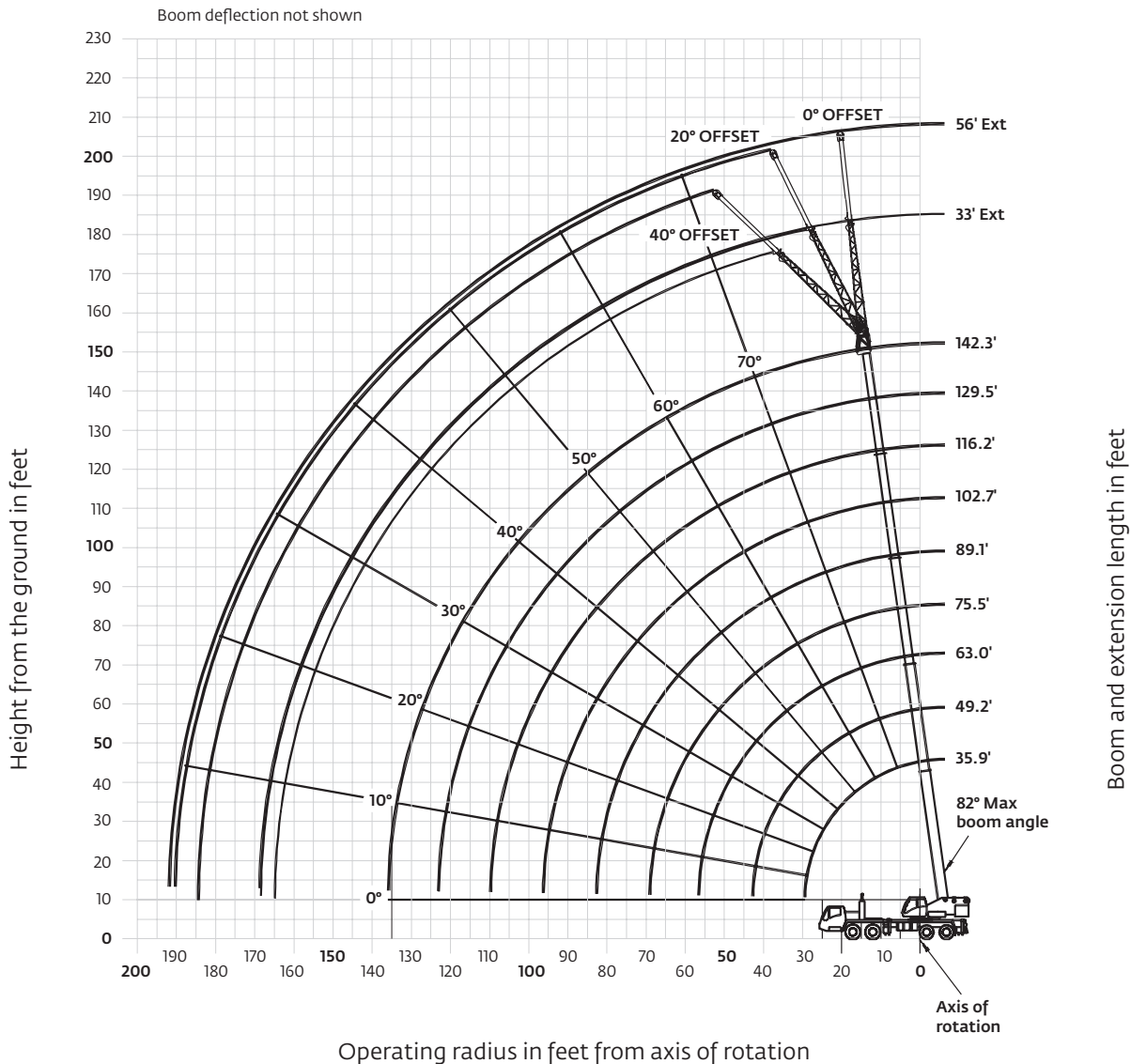
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Grove TMS9000E The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

# Working range

## Main boom and manual extension

36 ft - 142 ft main boom and manual lattice extension



Dimensions area for largest Grove furnished hookblock and headache ball, with anti-two block activated.

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# Load charts

## Main boom

|                                                                                   |                                                                                                      |                                                                                   |                                                                                   |         |        |        |        |        |        |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|--------|--------|--------|--------|--------|
|  |                     |  |  |         |        |        |        |        |        |
| 36 ft - 142 ft<br>Fixed lengths                                                   | 48,500 lb                                                                                            | 100%<br>24 ft 0 in                                                                | 360°                                                                              |         |        |        |        |        |        |
|  |  Pounds (thousands) |                                                                                   |                                                                                   |         |        |        |        |        |        |
| Feet                                                                              | 35.9'                                                                                                | 49.2'                                                                             | 63.0'                                                                             | 75.5'   | 89.1'  | 102.7' | 116.2' | 129.5' | 142.3' |
| 8                                                                                 | ° 220,000                                                                                            |                                                                                   |                                                                                   |         |        |        |        |        |        |
| 9                                                                                 | °185000                                                                                              |                                                                                   |                                                                                   |         |        |        |        |        |        |
| 10                                                                                | 165,000                                                                                              |                                                                                   |                                                                                   |         | 83,000 |        |        |        |        |
| 12                                                                                | 151,000                                                                                              | 138,000                                                                           | 129,500                                                                           | 111,000 | 83,000 |        |        |        |        |
| 15                                                                                | 131,500                                                                                              | 127,500                                                                           | 122,500                                                                           | 111,000 | 83,000 | 60,150 |        |        |        |
| 20                                                                                | 105,500                                                                                              | 105,500                                                                           | 101,000                                                                           | 99,400  | 81,500 | 60,150 | 44,500 | 33,450 |        |
| 25                                                                                | 83,600                                                                                               | 85,750                                                                            | 84,300                                                                            | 84,550  | 73,500 | 56,750 | 44,500 | 33,450 | 26,700 |
| 30                                                                                |                                                                                                      | 70,150                                                                            | 70,600                                                                            | 70,350  | 65,600 | 50,100 | 44,250 | 33,450 | 26,700 |
| 35                                                                                |                                                                                                      | 58,050                                                                            | 58,600                                                                            | 57,850  | 59,150 | 44,700 | 40,100 | 33,450 | 26,700 |
| 40                                                                                |                                                                                                      | 48,050                                                                            | 48,950                                                                            | 48,250  | 49,550 | 40,150 | 36,250 | 32,850 | 26,700 |
| 45                                                                                |                                                                                                      |                                                                                   | 41,600                                                                            | 43,050  | 42,250 | 36,350 | 32,400 | 30,050 | 26,700 |
| 50                                                                                |                                                                                                      |                                                                                   | 37,000                                                                            | 37,450  | 36,600 | 32,650 | 29,550 | 27,550 | 25,950 |
| 55                                                                                |                                                                                                      |                                                                                   | 27,450                                                                            | 32,650  | 31,950 | 30,250 | 27,050 | 25,300 | 24,100 |
| 60                                                                                |                                                                                                      |                                                                                   |                                                                                   | 28,700  | 27,950 | 28,200 | 24,900 | 23,350 | 22,350 |
| 65                                                                                |                                                                                                      |                                                                                   |                                                                                   | 25,350  | 24,700 | 25,400 | 23,000 | 21,550 | 20,750 |
| 70                                                                                |                                                                                                      |                                                                                   |                                                                                   |         | 22,100 | 22,700 | 21,200 | 20,000 | 19,300 |
| 75                                                                                |                                                                                                      |                                                                                   |                                                                                   |         | 20,850 | 20,400 | 19,500 | 18,600 | 18,000 |
| 80                                                                                |                                                                                                      |                                                                                   |                                                                                   |         | 19,100 | 18,450 | 18,400 | 16,650 | 16,100 |
| 85                                                                                |                                                                                                      |                                                                                   |                                                                                   |         |        | 16,700 | 16,750 | 15,550 | 15,100 |
| 90                                                                                |                                                                                                      |                                                                                   |                                                                                   |         |        | 15,250 | 15,600 | 14,300 | 14,150 |
| 95                                                                                |                                                                                                      |                                                                                   |                                                                                   |         |        | 11,500 | 14,250 | 13,400 | 13,300 |
| 100                                                                               |                                                                                                      |                                                                                   |                                                                                   |         |        |        | 13,050 | 12,700 | 12,350 |
| 105                                                                               |                                                                                                      |                                                                                   |                                                                                   |         |        |        | 12,000 | 11,950 | 11,350 |
| 110                                                                               |                                                                                                      |                                                                                   |                                                                                   |         |        |        |        | 11,000 | 10,400 |
| 115                                                                               |                                                                                                      |                                                                                   |                                                                                   |         |        |        |        | 10,100 | 9570   |
| 120                                                                               |                                                                                                      |                                                                                   |                                                                                   |         |        |        |        | 9360   | 8780   |
| 125                                                                               |                                                                                                      |                                                                                   |                                                                                   |         |        |        |        |        | 8070   |
| 130                                                                               |                                                                                                      |                                                                                   |                                                                                   |         |        |        |        |        | 7420   |
| 135                                                                               |                                                                                                      |                                                                                   |                                                                                   |         |        |        |        |        | 4980   |
| 140                                                                               |                                                                                                      |                                                                                   |                                                                                   |         |        |        |        |        |        |

\*Requires special equipment.

|  |                     |  |  |         |        |        |        |        |        |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|--------|--------|--------|--------|--------|
| 36 ft - 142 ft<br>Fixed lengths                                                     | 44,000 lb                                                                                              | 100%<br>24 ft 0 in                                                                  | 360°                                                                                |         |        |        |        |        |        |
|  |  Pounds (thousands) |                                                                                     |                                                                                     |         |        |        |        |        |        |
| Feet                                                                                | 35.9'                                                                                                  | 49.2'                                                                               | 63.0'                                                                               | 75.5'   | 89.1'  | 102.7' | 116.2' | 129.5' | 142.3' |
| 10                                                                                  | 165,000                                                                                                | 138,000                                                                             | 130,500                                                                             | 111,000 | 83,000 |        |        |        |        |
| 12                                                                                  | 151,000                                                                                                | 138,000                                                                             | 129,500                                                                             | 111,000 | 83,000 |        |        |        |        |
| 15                                                                                  | 131,500                                                                                                | 127,500                                                                             | 122,500                                                                             | 111,000 | 83,000 | 60,150 |        |        |        |
| 20                                                                                  | 105,500                                                                                                | 105,500                                                                             | 101,000                                                                             | 99,400  | 81,500 | 60,150 | 44,500 | 33,450 |        |
| 25                                                                                  | 82,900                                                                                                 | 84,900                                                                              | 83,600                                                                              | 84,550  | 73,500 | 56,750 | 44,500 | 33,450 | 26,700 |
| 30                                                                                  |                                                                                                        | 68,050                                                                              | 68,650                                                                              | 68,200  | 65,600 | 50,100 | 44,250 | 33,450 | 26,700 |
| 35                                                                                  |                                                                                                        | 56,000                                                                              | 56,450                                                                              | 55,700  | 57,050 | 44,700 | 40,100 | 33,450 | 26,700 |
| 40                                                                                  |                                                                                                        | 46,500                                                                              | 47,100                                                                              | 47,450  | 47,700 | 40,150 | 36,250 | 32,850 | 26,700 |
| 45                                                                                  |                                                                                                        |                                                                                     | 40,300                                                                              | 41,500  | 40,650 | 36,350 | 32,400 | 30,050 | 26,700 |
| 50                                                                                  |                                                                                                        |                                                                                     | 35,600                                                                              | 35,550  | 34,700 | 32,650 | 29,550 | 27,550 | 25,950 |
| 55                                                                                  |                                                                                                        |                                                                                     | 27,450                                                                              | 30,800  | 30,050 | 30,250 | 27,050 | 25,300 | 24,100 |
| 60                                                                                  |                                                                                                        |                                                                                     |                                                                                     | 27,000  | 26,250 | 27,000 | 24,900 | 23,350 | 22,350 |
| 65                                                                                  |                                                                                                        |                                                                                     |                                                                                     | 23,850  | 23,550 | 23,850 | 22,350 | 21,550 | 20,750 |
| 70                                                                                  |                                                                                                        |                                                                                     |                                                                                     |         | 22,050 | 21,300 | 20,700 | 20,000 | 19,300 |
| 75                                                                                  |                                                                                                        |                                                                                     |                                                                                     |         | 19,800 | 19,100 | 19,400 | 18,050 | 18,000 |
| 80                                                                                  |                                                                                                        |                                                                                     |                                                                                     |         | 17,900 | 17,250 | 17,500 | 16,150 | 16,100 |
| 85                                                                                  |                                                                                                        |                                                                                     |                                                                                     |         |        | 15,650 | 15,950 | 15,050 | 15,100 |
| 90                                                                                  |                                                                                                        |                                                                                     |                                                                                     |         |        | 14,250 | 14,550 | 14,200 | 13,800 |
| 95                                                                                  |                                                                                                        |                                                                                     |                                                                                     |         |        | 11,500 | 13,250 | 13,150 | 12,550 |
| 100                                                                                 |                                                                                                        |                                                                                     |                                                                                     |         |        |        | 12,150 | 12,050 | 11,450 |
| 105                                                                                 |                                                                                                        |                                                                                     |                                                                                     |         |        |        | 11,100 | 11,050 | 10,450 |
| 110                                                                                 |                                                                                                        |                                                                                     |                                                                                     |         |        |        |        | 10,150 | 9,570  |
| 115                                                                                 |                                                                                                        |                                                                                     |                                                                                     |         |        |        |        | 9,330  | 8,760  |
| 120                                                                                 |                                                                                                        |                                                                                     |                                                                                     |         |        |        |        | 8,590  | 8,010  |
| 125                                                                                 |                                                                                                        |                                                                                     |                                                                                     |         |        |        |        |        | 7,330  |
| 130                                                                                 |                                                                                                        |                                                                                     |                                                                                     |         |        |        |        |        | 6,720  |
| 135                                                                                 |                                                                                                        |                                                                                     |                                                                                     |         |        |        |        |        | 4,980  |
| 140                                                                                 |                                                                                                        |                                                                                     |                                                                                     |         |        |        |        |        |        |

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# Load charts

## Main boom

 36 ft - 142 ft  
Fixed lengths
  26,000 lb
  100%  
24 ft 0 in
  360°

| Feet | 35.9'   | 49.2'   | 63.0'   | 75.5'   | 89.1'  | 102.7' | 116.2' | 129.5' | 142.3' |
|------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 10   | 165,000 | 138,000 | 130,500 | 111,000 | 83,000 |        |        |        |        |
| 12   | 151,000 | 138,000 | 129,500 | 111,000 | 83,000 |        |        |        |        |
| 15   | 128,500 | 127,500 | 122,500 | 111,000 | 83,000 | 60,150 |        |        |        |
| 20   | 95,750  | 97,750  | 96,300  | 97,600  | 81,500 | 60,150 | 44,500 | 33,450 |        |
| 25   | 72,700  | 74,650  | 75,250  | 74,750  | 73,500 | 56,750 | 44,500 | 33,450 | 26,700 |
| 30   |         | 58,850  | 59,100  | 59,700  | 59,750 | 50,100 | 44,250 | 33,450 | 26,700 |
| 35   |         | 46,850  | 47,850  | 47,700  | 46,800 | 44,700 | 40,100 | 33,450 | 26,700 |
| 40   |         | 37,500  | 38,650  | 38,500  | 37,650 | 38,350 | 36,250 | 32,850 | 26,700 |
| 45   |         |         | 32,100  | 31,950  | 31,900 | 32,000 | 30,300 | 30,050 | 26,700 |
| 50   |         |         | 27,150  | 27,100  | 27,850 | 27,050 | 27,350 | 25,900 | 25,950 |
| 55   |         |         | 21,850  | 24,250  | 24,050 | 23,250 | 23,550 | 23,350 | 22,700 |
| 60   |         |         |         | 21,300  | 20,950 | 21,250 | 20,500 | 20,350 | 19,700 |
| 65   |         |         |         | 18,750  | 18,450 | 18,700 | 18,300 | 17,850 | 17,200 |
| 70   |         |         |         |         | 16,400 | 16,600 | 16,200 | 15,900 | 15,250 |
| 75   |         |         |         |         | 14,750 | 14,950 | 14,550 | 14,150 | 13,500 |
| 80   |         |         |         |         | 13,350 | 13,400 | 13,000 | 12,600 | 11,950 |
| 85   |         |         |         |         |        | 12,050 | 11,650 | 11,250 | 10,600 |
| 90   |         |         |         |         |        | 10,900 | 10,500 | 10,100 | 9,470  |
| 95   |         |         |         |         |        | 7430   | 9480   | 9070   | 8450   |
| 100  |         |         |         |         |        |        | 8580   | 8170   | 7550   |
| 105  |         |         |         |         |        |        | 7770   | 7360   | 6740   |
| 110  |         |         |         |         |        |        |        | 6640   | 6020   |
| 115  |         |         |         |         |        |        |        | 6000   | 5380   |
| 120  |         |         |         |         |        |        |        | 5400   | 4790   |
| 125  |         |         |         |         |        |        |        |        | 4260   |
| 130  |         |         |         |         |        |        |        |        | 3770   |
| 135  |         |         |         |         |        |        |        |        | 3330   |
| 140  |         |         |         |         |        |        |        |        |        |

 36 ft - 142 ft  
Fixed lengths
  11,000 lb
  100%  
24 ft 0 in
  360°

| Feet | 35.9'   | 49.2'   | 63.0'   | 75.5'   | 89.1'  | 102.7' | 116.2' | 129.5' | 142.3' |
|------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 10   | 164,000 | 138,000 | 130,500 | 111,000 | 83,000 |        |        |        |        |
| 12   | 147,000 | 138,000 | 129,500 | 111,000 | 83,000 |        |        |        |        |
| 15   | 120,500 | 123,000 | 121,000 | 111,000 | 83,000 | 60,150 |        |        |        |
| 20   | 84,900  | 86,900  | 87,500  | 86,750  | 81,500 | 60,150 | 44,500 | 33,450 |        |
| 25   | 61,950  | 63,550  | 63,850  | 65,650  | 64,500 | 56,750 | 44,500 | 33,450 | 26,700 |
| 30   |         | 46,400  | 47,550  | 47,400  | 46,400 | 45,400 | 44,250 | 33,450 | 26,700 |
| 35   |         | 35,500  | 36,500  | 36,350  | 37,300 | 36,350 | 35,850 | 33,450 | 26,700 |
| 40   |         | 28,100  | 29,250  | 30,400  | 30,000 | 30,000 | 29,500 | 29,350 | 26,700 |
| 45   |         |         | 24,100  | 25,000  | 24,650 | 24,950 | 24,500 | 23,950 | 23,200 |
| 50   |         |         | 20,000  | 20,900  | 20,850 | 20,800 | 20,350 | 19,900 | 19,150 |
| 55   |         |         | 15,200  | 17,750  | 17,650 | 17,650 | 17,200 | 16,750 | 16,000 |
| 60   |         |         |         | 15,300  | 15,250 | 15,250 | 14,800 | 14,350 | 13,700 |
| 65   |         |         |         | 13,250  | 13,200 | 13,200 | 12,800 | 12,350 | 11,700 |
| 70   |         |         |         |         | 11,500 | 11,500 | 11,100 | 10,700 | 10,050 |
| 75   |         |         |         |         | 10,100 | 10,100 | 9730   | 9310   | 8660   |
| 80   |         |         |         |         | 8920   | 8930   | 8530   | 8110   | 7470   |
| 85   |         |         |         |         |        | 7890   | 7500   | 7080   | 6450   |
| 90   |         |         |         |         |        | 7000   | 6600   | 6190   | 5560   |
| 95   |         |         |         |         |        | 3750   | 5810   | 5400   | 4770   |
| 100  |         |         |         |         |        |        | 5120   | 4700   | 4080   |
| 105  |         |         |         |         |        |        | 4490   | 4090   | 3470   |
| 110  |         |         |         |         |        |        |        | 3530   | 2910   |
| 115  |         |         |         |         |        |        |        | 3040   | 2420   |
| 120  |         |         |         |         |        |        |        | 2580   | 1970   |
| 125  |         |         |         |         |        |        |        |        | 1560   |
| 130  |         |         |         |         |        |        |        |        | 1190   |
| 135  |         |         |         |         |        |        |        |        |        |
| 140  |         |         |         |         |        |        |        |        |        |

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# Load charts

## Main boom

36 ft - 142 ft  
Fixed lengths

0 lb

100%  
24 ft 0 in

360°

Pounds (thousands)

| Feet | 35.9'   | 49.2'   | 63.0'   | 75.5'   | 89.1'  | 102.7' | 116.2' | 129.5' | 142.3' |
|------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 10   | 158,500 | 138,000 | 130,500 | 111,000 | 83,000 |        |        |        |        |
| 12   | 141,500 | 138,000 | 129,500 | 111,000 | 83,000 |        |        |        |        |
| 15   | 110,000 | 112,000 | 111,500 | 111,000 | 83,000 | 60,150 |        |        |        |
| 20   | 75,800  | 77,850  | 78,200  | 78,900  | 79,000 | 60,150 | 44,500 | 33,450 |        |
| 25   | 48,000  | 50,650  | 51,950  | 51,750  | 50,650 | 49,800 | 44,500 | 33,450 | 26,700 |
| 30   |         | 35,900  | 37,100  | 38,400  | 37,950 | 37,550 | 37,350 | 33,450 | 26,700 |
| 35   |         | 26,450  | 27,850  | 28,900  | 28,850 | 28,850 | 28,300 | 27,750 | 26,700 |
| 40   |         | 20,350  | 21,600  | 22,600  | 22,550 | 22,550 | 22,050 | 21,500 | 20,700 |
| 45   |         |         | 17,300  | 18,200  | 18,150 | 18,150 | 17,700 | 17,150 | 16,400 |
| 50   |         |         | 14,150  | 15,050  | 15,000 | 15,000 | 14,550 | 14,100 | 13,350 |
| 55   |         |         | 10,000  | 12,550  | 12,500 | 12,500 | 12,100 | 11,650 | 10,950 |
| 60   |         |         |         | 10,600  | 10,550 | 10,550 | 10,150 | 9,710  | 9,030  |
| 65   |         |         |         | 9040    | 8980   | 8980   | 8570   | 8140   | 7470   |
| 70   |         |         |         |         | 7670   | 7670   | 7260   | 6840   | 6180   |
| 75   |         |         |         |         | 6570   | 6560   | 6160   | 5740   | 5090   |
| 80   |         |         |         |         | 5620   | 5620   | 5230   | 4810   | 4170   |
| 85   |         |         |         |         |        | 4820   | 4420   | 4010   | 3370   |
| 90   |         |         |         |         |        | 4120   | 3720   | 3310   | 2680   |
| 95   |         |         |         |         |        | 1050   | 3100   | 2690   | 2070   |
| 100  |         |         |         |         |        |        | 2560   | 2150   | 1530   |
| 105  |         |         |         |         |        |        | 2070   | 1670   | 1050   |
| 110  |         |         |         |         |        |        |        | 1240   |        |
| 115  |         |         |         |         |        |        |        |        |        |
| 120  |         |         |         |         |        |        |        |        |        |

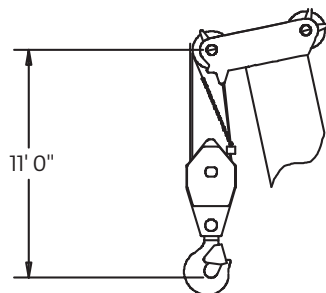
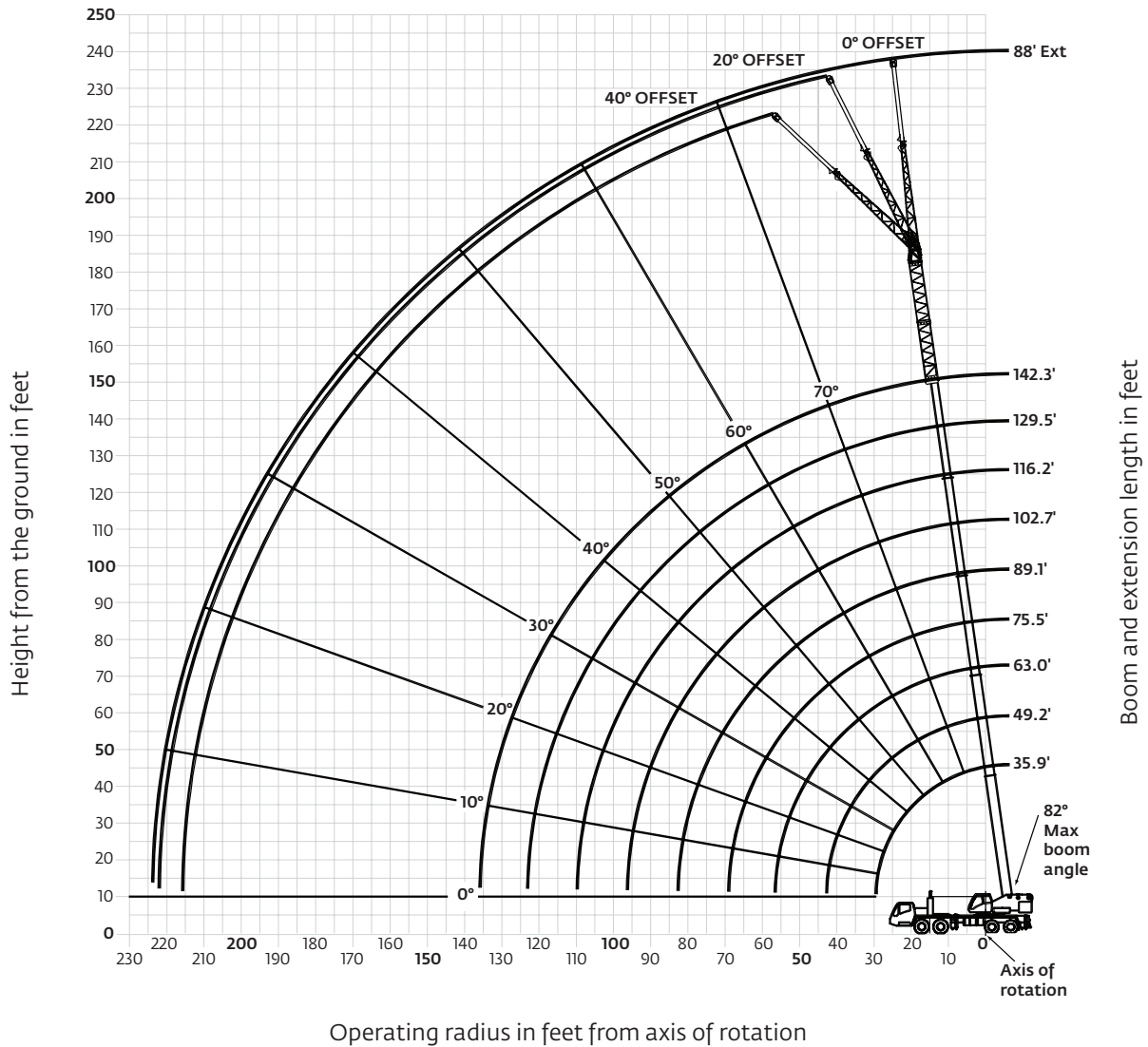
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# Working range

## Main boom, manual extension and inserts

36 ft - 142 ft main boom, manual lattice extension and two 16 ft inserts



Dimensions area for largest Grove furnished hookblock and headache ball, with anti-two block activated.

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# Load chart

## Main boom, manual extension and inserts

 142 ft  
Fixed lengths
  33 ft - 56 ft  
72 ft - 88 ft  
Manual offsettable  
swingaway
  48,500 lb
  100%  
24 ft 0 in
  360°



Pounds (thousands)

| Feet | 142.3' + 33' |        |        | 142.3' + 56' |      |      | 142.3' + 72' |      |      | 142.3' + 88' |      |      |
|------|--------------|--------|--------|--------------|------|------|--------------|------|------|--------------|------|------|
|      | 0°           | 20°    | 40°    | 0°           | 20°  | 40°  | 0°           | 20°  | 40°  | 0°           | 20°  | 40°  |
| 30   | 13,650       |        |        | 8470         |      |      |              |      |      |              |      |      |
| 35   | 13,650       |        |        | 8470         |      |      |              |      |      |              |      |      |
| 40   | 13,650       |        |        | 8470         |      |      |              |      |      |              |      |      |
| 45   | 13,650       | 14,200 |        | 8470         |      |      | 6920         |      |      |              |      |      |
| 50   | 13,650       | 14,200 | 12,200 | 8470         |      |      | 6920         |      |      | 5520         |      |      |
| 55   | 13,650       | 14,200 | 12,200 | 8470         | 8700 |      | 6920         |      |      | 5520         |      |      |
| 60   | 13,650       | 14,200 | 12,200 | 8470         | 8670 |      | 6920         | 7440 |      | 5520         |      |      |
| 65   | 13,650       | 14,200 | 12,200 | 8470         | 8620 |      | 6920         | 7440 |      | 5520         |      |      |
| 70   | 13,650       | 14,100 | 12,200 | 8470         | 8380 |      | 6920         | 7440 |      | 5520         | 5680 |      |
| 75   | 13,650       | 13,500 | 12,200 | 8470         | 8160 | 6750 | 6920         | 7440 | 6370 | 5520         | 5610 |      |
| 80   | 12,950       | 12,900 | 12,200 | 8470         | 7940 | 6640 | 6920         | 7440 | 6370 | 5520         | 5550 | 5330 |
| 85   | 12,250       | 12,250 | 12,200 | 8470         | 7720 | 6530 | 6920         | 7430 | 6370 | 5520         | 5480 | 5330 |
| 90   | 11,600       | 11,600 | 11,850 | 8470         | 7530 | 6440 | 6920         | 7330 | 6370 | 5520         | 5420 | 5330 |
| 95   | 11,000       | 11,050 | 11,250 | 8470         | 7340 | 6350 | 6920         | 7240 | 6350 | 5520         | 5350 | 5330 |
| 100  | 10,450       | 10,500 | 10,700 | 8470         | 7170 | 6280 | 6920         | 7140 | 6270 | 5520         | 5290 | 5290 |
| 105  | 9860         | 9990   | 10,200 | 8470         | 7020 | 6210 | 6920         | 7040 | 6200 | 5440         | 5230 | 5240 |
| 110  | 9290         | 9510   | 9720   | 8340         | 6870 | 6140 | 6920         | 6840 | 6140 | 5350         | 5160 | 5200 |
| 115  | 8750         | 8980   | 9260   | 8100         | 6730 | 6090 | 6920         | 6630 | 6090 | 5270         | 5100 | 5150 |
| 120  | 8250         | 8470   | 8720   | 7770         | 6610 | 6050 | 6710         | 6430 | 6040 | 5180         | 5040 | 5110 |
| 125  | 7790         | 7990   | 8210   | 7420         | 6490 | 6010 | 6490         | 6240 | 6000 | 5100         | 4990 | 5050 |
| 130  | 7260         | 7520   | 7610   | 7090         | 6390 | 5990 | 6270         | 6050 | 5970 | 5010         | 4920 | 4990 |
| 135  | 6670         | 6890   |        | 6770         | 6290 | 5970 | 6020         | 5880 | 5950 | 4930         | 4850 | 4920 |
| 140  | 6130         | 6320   |        | 6460         | 6200 | 5970 | 5740         | 5710 | 5800 | 4840         | 4760 | 4860 |
| 145  | 5630         | 5780   |        | 6070         | 6130 | 5970 | 5470         | 5560 | 5660 | 4670         | 4600 | 4720 |
| 150  | 5160         | 5280   |        | 5600         | 6000 | 5970 | 5220         | 5410 | 5530 | 4520         | 4460 | 4580 |
| 155  | 4740         | 4820   |        | 5160         | 5520 | 5660 | 4980         | 5180 | 5410 | 4360         | 4320 | 4450 |
| 160  | 4340         |        |        | 4750         | 5070 |      | 4590         | 4950 | 5180 | 4220         | 4190 | 4320 |
| 165  | 3990         |        |        | 4370         | 4640 |      | 4200         | 4560 | 4720 | 4020         | 4060 | 4200 |
| 170  |              |        |        | 4020         | 4240 |      | 3840         | 4160 |      | 3760         | 3950 | 4090 |
| 175  |              |        |        | 3690         | 3860 |      | 3500         | 3790 |      | 3420         | 3770 | 3930 |
| 180  |              |        |        | 3380         | 3500 |      | 3190         | 3430 |      | 3100         | 3420 | 3550 |
| 185  |              |        |        | 3080         |      |      | 2890         | 3100 |      | 2800         | 3090 |      |
| 190  |              |        |        | 1830         |      |      | 2620         | 2780 |      | 2510         | 2770 |      |
| 195  |              |        |        |              |      |      | 2360         | 2480 |      | 2250         | 2470 |      |
| 200  |              |        |        |              |      |      | 2120         |      |      | 2000         | 2190 |      |
| 205  |              |        |        |              |      |      | 1910         |      |      | 1770         | 1920 |      |
| 210  |              |        |        |              |      |      |              |      |      | 1550         | 1660 |      |
| 215  |              |        |        |              |      |      |              |      |      | 1340         |      |      |
| 220  |              |        |        |              |      |      |              |      |      | 1160         |      |      |

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# Load charts

## Main boom, manual extension and inserts

|                                                                                                              |                                                                                                                                                        |                                                                                                |                                                                                                         |                                                                                           |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <br>142 ft<br>Fixed lengths | <br>33 ft - 56 ft<br>72 ft - 88 ft<br>Manual offsettable<br>swingaway | <br>44,000 lb | <br>100%<br>24 ft 0 in | <br>360° |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|

| Feet | 142.3' + 33' |        |        | 142.3' + 56' |      |      | 142.3' + 72' |      |      | 142.3' + 88' |      |      |
|------|--------------|--------|--------|--------------|------|------|--------------|------|------|--------------|------|------|
|      | 0°           | 20°    | 40°    | 0°           | 20°  | 40°  | 0°           | 20°  | 40°  | 0°           | 20°  | 40°  |
| 30   | 13,650       |        |        | 8470         |      |      |              |      |      |              |      |      |
| 35   | 13,650       |        |        | 8470         |      |      |              |      |      |              |      |      |
| 40   | 13,650       |        |        | 8470         |      |      |              |      |      |              |      |      |
| 45   | 13,650       | 14,200 |        | 8470         |      |      | 6920         |      |      |              |      |      |
| 50   | 13,650       | 14,200 | 12,200 | 8470         |      |      | 6920         |      |      | 5520         |      |      |
| 55   | 13,650       | 14,200 | 12,200 | 8470         | 8700 |      | 6920         |      |      | 5520         |      |      |
| 60   | 13,650       | 14,200 | 12,200 | 8470         | 8670 |      | 6920         | 7440 |      | 5520         |      |      |
| 65   | 13,650       | 14,200 | 12,200 | 8470         | 8620 |      | 6920         | 7440 |      | 5520         |      |      |
| 70   | 13,650       | 14,100 | 12,200 | 8470         | 8380 |      | 6920         | 7440 |      | 5520         | 5680 |      |
| 75   | 13,650       | 13,500 | 12,200 | 8470         | 8160 | 6750 | 6920         | 7440 | 6370 | 5520         | 5610 |      |
| 80   | 12,950       | 12,900 | 12,200 | 8470         | 7940 | 6640 | 6920         | 7440 | 6370 | 5520         | 5550 | 5330 |
| 85   | 12,250       | 12,250 | 12,200 | 8470         | 7720 | 6530 | 6920         | 7430 | 6370 | 5520         | 5480 | 5330 |
| 90   | 11,600       | 11,600 | 11,850 | 8470         | 7530 | 6440 | 6920         | 7330 | 6370 | 5520         | 5420 | 5330 |
| 95   | 11,000       | 11,050 | 11,250 | 8470         | 7340 | 6350 | 6920         | 7240 | 6350 | 5520         | 5350 | 5330 |
| 100  | 10,450       | 10,500 | 10,700 | 8470         | 7170 | 6280 | 6920         | 7140 | 6270 | 5520         | 5290 | 5290 |
| 105  | 9860         | 9990   | 10,200 | 8470         | 7020 | 6210 | 6920         | 7040 | 6200 | 5440         | 5230 | 5240 |
| 110  | 9290         | 9510   | 9720   | 8340         | 6870 | 6140 | 6920         | 6840 | 6140 | 5350         | 5160 | 5200 |
| 115  | 8580         | 8940   | 9140   | 8100         | 6730 | 6090 | 6920         | 6630 | 6090 | 5270         | 5100 | 5150 |
| 120  | 7850         | 8170   | 8330   | 7770         | 6610 | 6050 | 6710         | 6430 | 6040 | 5180         | 5040 | 5110 |
| 125  | 7170         | 7460   | 7590   | 7420         | 6490 | 6010 | 6490         | 6240 | 6000 | 5100         | 4990 | 5050 |
| 130  | 6560         | 6810   | 6910   | 7040         | 6390 | 5990 | 6270         | 6050 | 5970 | 5010         | 4920 | 4990 |
| 135  | 5990         | 6220   |        | 6460         | 6290 | 5970 | 6020         | 5880 | 5950 | 4930         | 4850 | 4920 |
| 140  | 5480         | 5660   |        | 5940         | 6200 | 5970 | 5740         | 5710 | 5800 | 4840         | 4760 | 4860 |
| 145  | 5000         | 5150   |        | 5450         | 5890 | 5970 | 5300         | 5560 | 5660 | 4670         | 4600 | 4720 |
| 150  | 4560         | 4680   |        | 5000         | 5400 | 5590 | 4840         | 5320 | 5530 | 4520         | 4460 | 4580 |
| 155  | 4150         | 4240   |        | 4580         | 4930 | 5080 | 4420         | 4860 | 5090 | 4340         | 4320 | 4450 |
| 160  | 3780         |        |        | 4190         | 4500 |      | 4020         | 4420 | 4620 | 3950         | 4190 | 4320 |
| 165  | 3440         |        |        | 3830         | 4090 |      | 3660         | 4020 | 4170 | 3580         | 4000 | 4200 |
| 170  |              |        |        | 3490         | 3710 |      | 3310         | 3630 |      | 3230         | 3620 | 3810 |
| 175  |              |        |        | 3170         | 3350 |      | 2990         | 3280 |      | 2900         | 3260 | 3420 |
| 180  |              |        |        | 2880         | 3000 |      | 2690         | 2940 |      | 2600         | 2920 | 3050 |
| 185  |              |        |        | 2620         |      |      | 2410         | 2620 |      | 2310         | 2600 |      |
| 190  |              |        |        | 1830         |      |      | 2150         | 2310 |      | 2040         | 2300 |      |
| 195  |              |        |        |              |      |      | 1900         | 2020 |      | 1790         | 2010 |      |
| 200  |              |        |        |              |      |      | 1680         |      |      | 1560         | 1740 |      |
| 205  |              |        |        |              |      |      | 1480         |      |      | 1330         | 1480 |      |
| 210  |              |        |        |              |      |      |              |      |      | 1120         | 1230 |      |

|                                                                                                                |                                                                                                                                                          |                                                                                                  |                                                                                                           |                                                                                             |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <br>142 ft<br>Fixed lengths | <br>33 ft - 56 ft<br>72 ft - 88 ft<br>Manual offsettable<br>swingaway | <br>26,000 lb | <br>100%<br>24 ft 0 in | <br>360° |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|

| Feet | 142.3' + 33' |        |        | 142.3' + 56' |      |      | 142.3' + 72' |      |      | 142.3' + 88' |      |      |
|------|--------------|--------|--------|--------------|------|------|--------------|------|------|--------------|------|------|
|      | 0°           | 20°    | 40°    | 0°           | 20°  | 40°  | 0°           | 20°  | 40°  | 0°           | 20°  | 40°  |
| 30   | 13,650       |        |        | 8470         |      |      |              |      |      |              |      |      |
| 35   | 13,650       |        |        | 8470         |      |      |              |      |      |              |      |      |
| 40   | 13,650       |        |        | 8470         |      |      |              |      |      |              |      |      |
| 45   | 13,650       | 14,200 |        | 6920         |      |      | 6920         |      |      |              |      |      |
| 50   | 13,650       | 14,200 | 12,200 | 8470         |      |      | 6920         |      |      | 5520         |      |      |
| 55   | 13,650       | 14,200 | 12,200 | 8470         | 8700 |      | 6920         |      |      | 5520         |      |      |
| 60   | 13,650       | 14,200 | 12,200 | 8470         | 8670 |      | 6920         | 7440 |      | 5520         |      |      |
| 65   | 13,650       | 14,200 | 12,200 | 8470         | 8620 |      | 6920         | 7440 |      | 5520         |      |      |
| 70   | 13,650       | 14,100 | 12,200 | 8470         | 8380 |      | 6920         | 7440 |      | 5520         | 5680 |      |
| 75   | 13,400       | 13,500 | 12,200 | 8470         | 8160 | 6750 | 6920         | 7440 | 6370 | 5520         | 5610 |      |
| 80   | 11,900       | 12,600 | 12,200 | 8470         | 7940 | 6640 | 6920         | 7440 | 6370 | 5520         | 5550 | 5330 |
| 85   | 10,550       | 11,200 | 11,650 | 8470         | 7720 | 6530 | 6920         | 7430 | 6370 | 5520         | 5480 | 5330 |
| 90   | 9380         | 9990   | 10,400 | 8470         | 7530 | 6440 | 6920         | 7330 | 6370 | 5520         | 5420 | 5330 |
| 95   | 8350         | 8900   | 9260   | 8470         | 7340 | 6350 | 6920         | 7240 | 6350 | 5520         | 5350 | 5330 |
| 100  | 7440         | 7940   | 8250   | 8000         | 7170 | 6280 | 6920         | 7140 | 6270 | 5520         | 5290 | 5290 |
| 105  | 6620         | 7070   | 7350   | 7180         | 7020 | 6210 | 6920         | 7040 | 6200 | 5440         | 5230 | 5240 |
| 110  | 5890         | 6300   | 6540   | 6430         | 6870 | 6140 | 6330         | 6840 | 6140 | 5350         | 5160 | 5200 |
| 115  | 5240         | 5600   | 5800   | 5760         | 6540 | 6090 | 5650         | 6490 | 6090 | 5270         | 5100 | 5150 |
| 120  | 4640         | 4970   | 5130   | 5160         | 5870 | 6050 | 5040         | 5820 | 6040 | 5000         | 5040 | 5110 |
| 125  | 4100         | 4390   | 4520   | 4600         | 5260 | 5700 | 4480         | 5200 | 5720 | 4440         | 4990 | 5050 |
| 130  | 3600         | 3860   | 3960   | 4100         | 4700 | 5090 | 3970         | 4640 | 5100 | 3930         | 4650 | 4990 |
| 135  | 3150         | 3380   |        | 3640         | 4190 | 4520 | 3510         | 4120 | 4540 | 3450         | 4130 | 4590 |
| 140  | 2740         | 2930   |        | 3210         | 3710 | 4000 | 3070         | 3650 | 4010 | 3020         | 3650 | 4070 |
| 145  | 2350         | 2510   |        | 2820         | 3270 | 3510 | 2680         | 3210 | 3530 | 2620         | 3200 | 3590 |
| 150  | 2000         | 2130   |        | 2460         | 2860 | 3060 | 2310         | 2800 | 3080 | 2250         | 2790 | 3130 |
| 155  | 1680         | 1770   |        | 2120         | 2480 | 2630 | 1970         | 2410 | 2650 | 1900         | 2410 | 2710 |
| 160  | 1390         |        |        | 1810         | 2130 |      | 1650         | 2060 | 2260 | 1580         | 2050 | 2320 |
| 165  | 1120         |        |        | 1520         | 1790 |      | 1360         | 1720 | 1880 | 1290         | 1710 | 1950 |
| 170  |              |        |        | 1250         | 1480 |      | 1080         | 1410 |      | 1010         | 1400 | 1600 |
| 175  |              |        |        | 1000         | 1180 |      |              | 1110 |      |              | 1110 | 1270 |

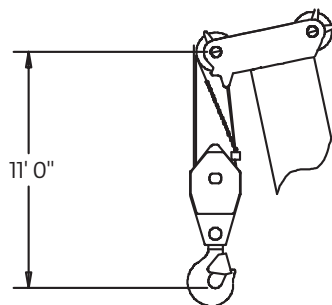
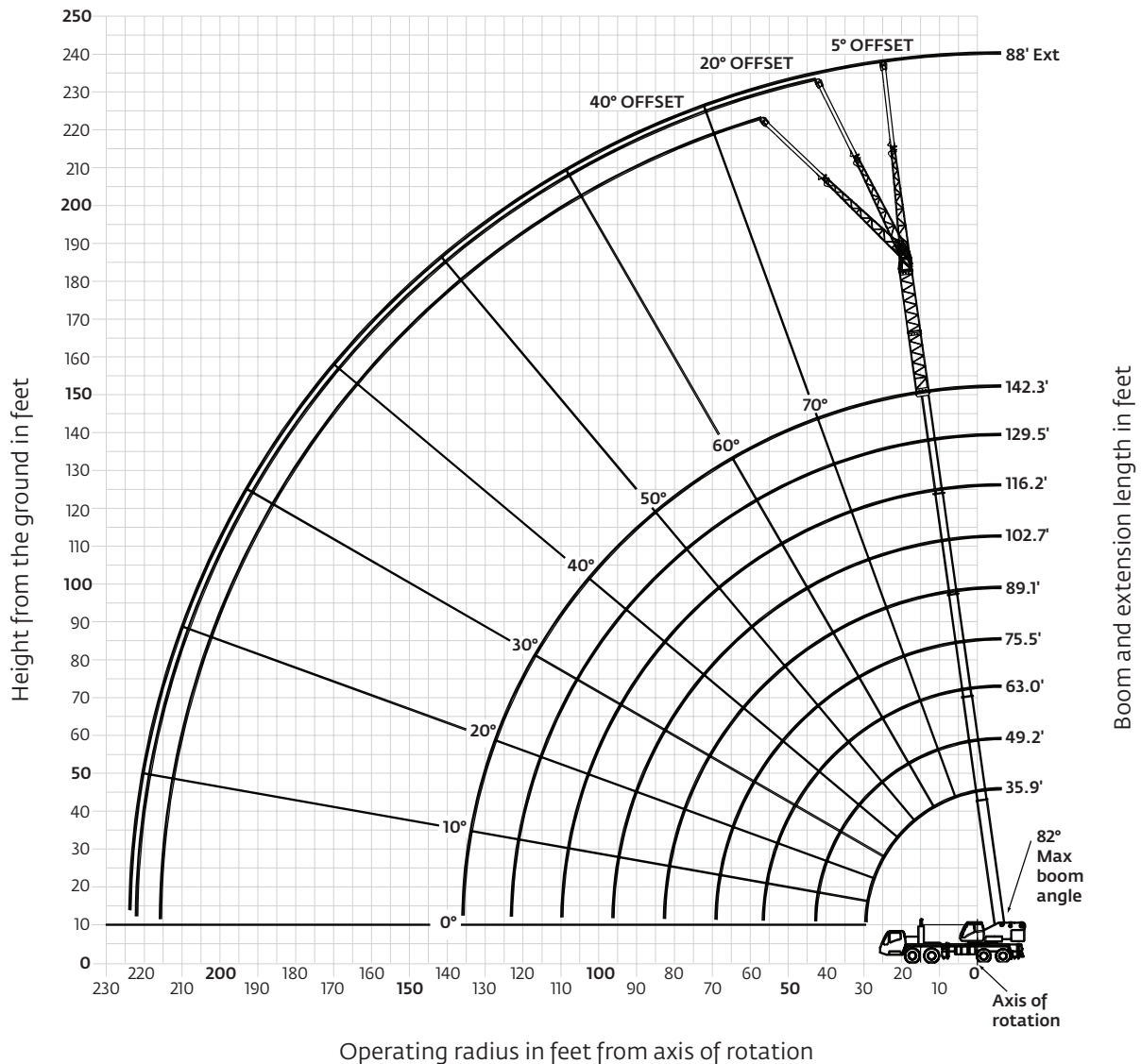
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# Working range

## Main boom, hydraulic extension and inserts

33 ft -56 ft main boom, hydraulic lattice extension and two 16 ft inserts



Dimensions area for largest Grove furnished hookblock and headache ball, with anti-two block activated.

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

# Load chart

## Main boom, hydraulic extension and inserts



| Feet | 142.3' + 33' |        |         | 142.3' + 56' |        |         | 142.3' + 72' |        |         | 142.3' + 88' |        |         |
|------|--------------|--------|---------|--------------|--------|---------|--------------|--------|---------|--------------|--------|---------|
|      | 5°           | 5°-20° | 20°-40° | 5°           | 5°-20° | 20°-40° | 5°           | 5°-20° | 20°-40° | 5°           | 5°-20° | 20°-40° |
| 35   | 13,800       |        |         |              |        |         |              |        |         |              |        |         |
| 40   | 13,800       |        |         | 8600         |        |         |              |        |         |              |        |         |
| 45   | 13,800       | 13,800 |         | 8600         |        |         |              |        |         |              |        |         |
| 50   | 13,800       | 13,800 | 12,200  | 8600         |        |         | 7000         |        |         | 5520         |        |         |
| 55   | 13,800       | 13,800 | 12,000  | 8600         | 8600   |         | 7000         |        |         | 5520         |        |         |
| 60   | 13,800       | 13,800 | 12,200  | 8600         | 8600   |         | 7000         | 7000   |         | 5520         |        |         |
| 65   | 13,800       | 13,800 | 12,200  | 8600         | 8600   |         | 7000         | 7000   |         | 5520         |        |         |
| 70   | 13,800       | 13,800 | 12,200  | 8600         | 8380   |         | 7000         | 7000   |         | 5520         | 5520   |         |
| 75   | 13,600       | 13,450 | 12,200  | 8600         | 8160   | 6750    | 7000         | 7000   | 6360    | 5520         | 5520   |         |
| 80   | 12,900       | 12,850 | 12,200  | 8600         | 7930   | 6640    | 7000         | 7000   | 6360    | 5520         | 5520   | 5300    |
| 85   | 12,200       | 12,200 | 12,200  | 8600         | 7720   | 6530    | 7000         | 7000   | 6360    | 5520         | 5460   | 5300    |
| 90   | 11,550       | 11,550 | 11,550  | 8600         | 7530   | 6440    | 7000         | 7000   | 6360    | 5520         | 5400   | 5300    |
| 95   | 10,950       | 10,950 | 11,000  | 8600         | 7340   | 6350    | 7000         | 7000   | 6350    | 5520         | 5330   | 5300    |
| 100  | 10,400       | 10,400 | 10,450  | 8370         | 7170   | 6270    | 7000         | 7000   | 6270    | 5440         | 5270   | 5270    |
| 105  | 9870         | 9870   | 9940    | 8130         | 7010   | 6200    | 7000         | 7000   | 6200    | 5350         | 5210   | 5210    |
| 110  | 9290         | 9290   | 9460    | 7890         | 6870   | 6140    | 7000         | 6810   | 6140    | 5270         | 5140   | 5140    |
| 115  | 8750         | 8750   | 8930    | 7670         | 6730   | 6090    | 6800         | 6600   | 6090    | 5180         | 5080   | 5080    |
| 120  | 8250         | 8250   | 8420    | 7460         | 6610   | 6050    | 6580         | 6400   | 6040    | 5100         | 5020   | 5020    |
| 125  | 7780         | 7780   | 7940    | 7260         | 6490   | 6010    | 6360         | 6200   | 6000    | 5020         | 4970   | 4970    |
| 130  | 7280         | 7280   | 7460    | 7080         | 6390   | 5990    | 6160         | 6020   | 5970    | 4940         | 4890   | 4890    |
| 135  | 6680         | 6680   |         | 6760         | 6260   | 5970    | 5960         | 5840   | 5840    | 4860         | 4820   | 4820    |
| 140  | 6130         | 6130   |         | 6470         | 6200   | 5970    | 5730         | 5680   | 5680    | 4760         | 4720   | 4720    |
| 145  | 5620         | 5620   |         | 6150         | 6130   | 5970    | 5460         | 5460   | 5520    | 4600         | 4570   | 4570    |
| 150  | 5150         | 5150   |         | 5660         | 5660   | 5950    | 5210         | 5210   | 5370    | 4450         | 4420   | 4420    |
| 155  | 4710         | 4710   |         | 5210         | 5210   | 5470    | 4970         | 4970   | 5130    | 4300         | 4280   | 4280    |
| 160  | 4310         |        |         | 4790         | 4790   |         | 4630         | 4630   | 4890    | 4160         | 4150   | 4150    |
| 165  | 3940         |        |         | 4400         | 4400   |         | 4240         | 4240   | 4500    | 4020         | 4020   | 4020    |
| 170  |              |        |         | 4040         | 4040   |         | 3870         | 3870   |         | 3800         | 3800   | 3910    |
| 175  |              |        |         | 3690         | 3690   |         | 3520         | 3520   |         | 3450         | 3450   | 3710    |
| 180  |              |        |         | 3370         | 3370   |         | 3200         | 3200   |         | 3120         | 3120   | 3350    |
| 185  |              |        |         | 3040         |        |         | 2860         | 2860   |         | 2790         | 2790   |         |
| 190  |              |        |         |              |        |         | 2540         | 2540   |         | 2460         | 2460   |         |
| 195  |              |        |         |              |        |         | 2230         | 2230   |         | 2160         | 2160   |         |
| 200  |              |        |         |              |        |         | 1940         |        |         | 1870         | 1870   |         |
| 205  |              |        |         |              |        |         | 1660         |        |         | 1590         | 1590   |         |
| 210  |              |        |         |              |        |         |              |        |         | 1330         | 1330   |         |
| 215  |              |        |         |              |        |         |              |        |         | 1080         |        |         |

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# Load chart

## Main boom, hydraulic extension and inserts

 142 ft  
Fixed lengths
  33 ft - 56 ft  
72 ft - 88 ft  
Hydraulic luffing  
swingaway/loads luffing
  48,500 lb
  100%  
24 ft 0 in
  360°

| Feet | 142.3' + 33' |         | 142.3' + 56' |         | 142.3' + 72' |         | 142.3' + 88' |         |
|------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|
|      | 5°-20°       | 20°-40° | 5°-20°       | 20°-40° | 5°-20°       | 20°-40° | 5°-20°       | 20°-40° |
| 35   |              |         |              |         |              |         |              |         |
| 40   |              |         |              |         |              |         |              |         |
| 45   | 13,800       |         |              |         |              |         |              |         |
| 50   | 13,800       | 12,200  |              |         |              |         |              |         |
| 55   | 13,800       | 12,200  | 8130         |         |              |         |              |         |
| 60   | 13,800       | 11,950  | 7790         |         | 7000         |         |              |         |
| 65   | 13,350       | 11,700  | 7490         |         | 7000         |         |              |         |
| 70   | 12,900       | 11,500  | 7210         |         | 6810         |         | 5520         |         |
| 75   | 12,450       | 11,350  | 6940         | 6000    | 6600         | 5,470   | 5520         |         |
| 80   | 12,100       | 11,150  | 6690         | 5880    | 6410         | 5380    | 5520         | 4960    |
| 85   | 11,750       | 11,000  | 6460         | 5760    | 6230         | 5290    | 5460         | 4890    |
| 90   | 11,400       | 10,850  | 6260         | 5660    | 6050         | 5210    | 5400         | 4820    |
| 95   | 10,950       | 10,750  | 6060         | 5550    | 5880         | 5140    | 5330         | 4760    |
| 100  | 10,400       | 10,450  | 5880         | 5460    | 5730         | 5070    | 5270         | 4700    |
| 105  | 9870         | 9940    | 5700         | 5380    | 5580         | 5000    | 5210         | 4640    |
| 110  | 9290         | 9460    | 5550         | 5300    | 5450         | 4940    | 5140         | 4590    |
| 115  | 8750         | 8930    | 5400         | 5230    | 5320         | 4880    | 5080         | 4540    |
| 120  | 8250         | 8420    | 5260         | 5170    | 5200         | 4830    | 5020         | 4500    |
| 125  | 7780         | 7940    | 5130         | 5110    | 5080         | 4780    | 4970         | 4450    |
| 130  | 7280         | 7460    | 5010         | 5010    | 4970         | 4730    | 4890         | 4410    |
| 135  | 6680         |         | 4900         | 4900    | 4870         | 4690    | 4810         | 4380    |
| 140  | 6130         |         | 4780         | 4790    | 4780         | 4660    | 4720         | 4340    |
| 145  | 5620         |         | 4630         | 4690    | 4690         | 4620    | 4570         | 4310    |
| 150  | 5150         |         | 4480         | 4610    | 4540         | 4600    | 4420         | 4290    |
| 155  | 4710         |         | 4340         | 4520    | 4410         | 4520    | 4280         | 4260    |
| 160  |              |         | 4220         |         | 4290         | 4450    | 4150         | 4150    |
| 165  |              |         | 4090         |         | 4170         | 4380    | 4020         | 4020    |
| 170  |              |         | 3980         |         | 3870         |         | 3800         | 3910    |
| 175  |              |         | 3690         |         | 3520         |         | 3450         | 3710    |
| 180  |              |         | 3370         |         | 3200         |         | 3120         | 3350    |
| 185  |              |         |              |         | 2860         |         | 2790         |         |
| 190  |              |         |              |         | 2540         |         | 2460         |         |
| 195  |              |         |              |         | 2230         |         | 2160         |         |
| 200  |              |         |              |         |              |         | 1870         |         |
| 205  |              |         |              |         |              |         | 1590         |         |
| 210  |              |         |              |         |              |         | 1330         |         |
| 215  |              |         |              |         |              |         |              |         |

# Load chart

## Main boom, hydraulic extension and inserts



Pounds (thousands)

| Feet | 142.3' + 33' |        |         | 142.3' + 56' |        |         | 142.3' + 72' |        |         | 142.3' + 88' |        |         |
|------|--------------|--------|---------|--------------|--------|---------|--------------|--------|---------|--------------|--------|---------|
|      | 5°           | 5°-20° | 20°-40° | 5°           | 5°-20° | 20°-40° | 5°           | 5°-20° | 20°-40° | 5°           | 5°-20° | 20°-40° |
| 35   | 13,800       |        |         | 8600         |        |         |              |        |         |              |        |         |
| 40   | 13,800       |        |         | 8600         |        |         |              |        |         |              |        |         |
| 45   | 13,800       | 13,800 |         | 8600         |        |         |              |        |         |              |        |         |
| 50   | 13,800       | 13,800 | 12,200  | 8600         |        |         | 7000         |        |         | 5520         |        |         |
| 55   | 13,800       | 13,800 | 12,200  | 8600         | 8600   |         | 7000         |        |         | 5520         |        |         |
| 60   | 13,800       | 13,800 | 12,200  | 8600         | 8600   |         | 7000         | 7000   |         | 5520         |        |         |
| 65   | 13,800       | 13,800 | 12,200  | 8600         | 8600   |         | 7000         | 7000   |         | 5520         |        |         |
| 65   | 13,800       | 13,800 | 12,200  | 8600         | 8600   |         | 7000         | 7000   |         | 5520         |        |         |
| 70   | 13,800       | 13,800 | 12,200  | 8600         | 8380   |         | 7000         | 7000   |         | 5520         | 5520   |         |
| 75   | 13,600       | 13,450 | 12,200  | 8600         | 8160   | 6750    | 7000         | 7000   | 6360    | 5520         | 5520   |         |
| 80   | 12,900       | 12,850 | 12,200  | 8600         | 7930   | 6640    | 7000         | 7000   | 6360    | 5520         | 5520   | 5300    |
| 85   | 12,200       | 12,200 | 12,200  | 8600         | 7720   | 6530    | 7000         | 7000   | 6360    | 5520         | 5460   | 5300    |
| 90   | 11,550       | 11,550 | 11,550  | 8600         | 7530   | 6440    | 7000         | 7000   | 6360    | 5520         | 5400   | 5300    |
| 95   | 10,950       | 10,950 | 11,000  | 8600         | 7340   | 6350    | 7000         | 7000   | 6350    | 5520         | 5330   | 5300    |
| 100  | 10,400       | 10,400 | 10,450  | 8370         | 7170   | 6270    | 7000         | 7000   | 6270    | 5440         | 5270   | 5270    |
| 105  | 9870         | 9870   | 9940    | 8130         | 7010   | 6200    | 7000         | 7000   | 6200    | 5350         | 5210   | 5210    |
| 110  | 9290         | 9290   | 9460    | 7890         | 6870   | 6140    | 7000         | 6810   | 6140    | 5270         | 5140   | 5140    |
| 115  | 8630         | 8630   | 8890    | 7670         | 6730   | 6090    | 6800         | 6600   | 6090    | 5180         | 5080   | 5080    |
| 120  | 7880         | 7880   | 8110    | 7460         | 6610   | 6050    | 6580         | 6400   | 6040    | 5100         | 5020   | 5020    |
| 125  | 7200         | 7200   | 7400    | 7260         | 6490   | 6010    | 6360         | 6200   | 6000    | 5020         | 4970   | 4970    |
| 130  | 6580         | 6580   | 6750    | 7080         | 6390   | 5990    | 6160         | 6020   | 5970    | 4940         | 4890   | 4890    |
| 135  | 6000         | 6000   |         | 6560         | 6290   | 5970    | 5960         | 5840   | 5840    | 4860         | 4820   | 4820    |
| 140  | 5480         | 5480   |         | 6020         | 6020   | 5970    | 5730         | 5680   | 5680    | 4760         | 4720   | 4720    |
| 145  | 4990         | 4990   |         | 5520         | 5520   | 5850    | 5370         | 5370   | 5520    | 4600         | 4570   | 4570    |
| 150  | 4540         | 4540   |         | 5060         | 5060   | 5350    | 4910         | 4910   | 5260    | 4450         | 4420   | 4420    |
| 155  | 4130         | 4130   |         | 4630         | 4630   | 4890    | 4470         | 4470   | 4790    | 4300         | 4280   | 4280    |
| 160  | 3740         |        |         | 4230         | 4230   |         | 4070         | 4070   | 4360    | 4010         | 4010   | 4150    |
| 165  | 3390         |        |         | 3860         | 3860   |         | 3690         | 3690   | 3950    | 3630         | 3630   | 3930    |
| 170  |              |        |         | 3510         | 3510   |         | 3340         | 3340   |         | 3270         | 3270   | 3550    |
| 175  |              |        |         | 3180         | 3280   |         | 3010         | 3010   |         | 2940         | 2940   | 3190    |
| 180  |              |        |         | 2880         | 2880   |         | 2700         | 2700   |         | 2620         | 2620   | 2860    |
| 185  |              |        |         | 2590         |        |         | 2410         | 2410   |         | 2330         | 2330   |         |
| 190  |              |        |         |              |        |         | 2130         | 2130   |         | 2050         | 2050   |         |
| 195  |              |        |         |              |        |         | 1880         | 1880   |         | 1790         | 1790   |         |
| 200  |              |        |         |              |        |         | 1600         |        |         | 1530         | 1530   |         |
| 205  |              |        |         |              |        |         | 1330         |        |         | 1260         | 1260   |         |
| 210  |              |        |         |              |        |         |              |        |         | 1010         | 1010   |         |

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# Load chart

## Main boom, hydraulic extension and inserts

 142 ft  
Fixed lengths
  33 ft - 56 ft  
72 ft - 88 ft  
Hydraulic luffing  
swingaway/loads luffing
  44,000 lb
  100%  
24 ft 0 in
  360°

|      | Pounds (thousands) |         |              |         |              |         |              |         |
|------|--------------------|---------|--------------|---------|--------------|---------|--------------|---------|
| Feet | 142.3' + 33'       |         | 142.3' + 56' |         | 142.3' + 72' |         | 142.3' + 88' |         |
|      | 5°-20°             | 20°-40° | 5°-20°       | 20°-40° | 5°-20°       | 20°-40° | 5°-20°       | 20°-40° |
| 35   |                    |         |              |         |              |         |              |         |
| 40   |                    |         |              |         |              |         |              |         |
| 45   | 13,800             |         |              |         |              |         |              |         |
| 50   | 13,800             | 12,200  |              |         |              |         |              |         |
| 55   | 13,800             | 12,200  | 8130         |         |              |         |              |         |
| 60   | 13,800             | 11,950  | 7790         |         | 7000         |         |              |         |
| 65   | 13,350             | 11,700  | 7490         |         | 7000         |         |              |         |
| 70   | 12,900             | 11,500  | 7210         |         | 6810         |         | 5520         |         |
| 75   | 12,450             | 11,350  | 6940         | 6000    | 6600         | 5470    | 5520         |         |
| 80   | 12,100             | 11,150  | 6690         | 5880    | 6410         | 5380    | 5520         | 4960    |
| 85   | 11,750             | 11,000  | 6460         | 5760    | 6230         | 5290    | 5460         | 4890    |
| 90   | 11,400             | 10,850  | 6260         | 5660    | 6050         | 5210    | 5400         | 4820    |
| 95   | 10,950             | 10,750  | 6060         | 5550    | 5880         | 5140    | 5330         | 4760    |
| 100  | 10,400             | 10,450  | 5880         | 5460    | 5730         | 5070    | 5270         | 4700    |
| 105  | 9870               | 9940    | 5700         | 5380    | 5580         | 5000    | 5210         | 4640    |
| 110  | 9290               | 9460    | 5550         | 5300    | 5450         | 4940    | 5140         | 4590    |
| 115  | 8630               | 8890    | 5400         | 5230    | 5320         | 4880    | 5080         | 4540    |
| 120  | 7880               | 8110    | 5260         | 5170    | 5200         | 4830    | 5020         | 4500    |
| 125  | 7200               | 7400    | 5130         | 5110    | 5080         | 4780    | 4970         | 4450    |
| 130  | 6580               | 6750    | 5010         | 5010    | 4970         | 4730    | 4890         | 4410    |
| 135  | 6000               |         | 4900         | 4900    | 4870         | 4690    | 4810         | 4380    |
| 140  | 5480               |         | 4780         | 4790    | 4780         | 4660    | 4720         | 4340    |
| 145  | 4990               |         | 4630         | 4690    | 4690         | 4620    | 4570         | 4310    |
| 150  | 4540               |         | 4480         | 4610    | 4540         | 4600    | 4420         | 4290    |
| 155  | 4130               |         | 4340         | 4520    | 4410         | 4520    | 4280         | 4260    |
| 160  |                    |         | 4220         |         | 4070         | 4360    | 4010         | 4150    |
| 165  |                    |         | 3860         |         | 3690         | 3950    | 3630         | 3930    |
| 170  |                    |         | 3510         |         | 3340         |         | 3270         | 3550    |
| 175  |                    |         | 3180         |         | 3010         |         | 2940         | 3190    |
| 180  |                    |         | 2880         |         | 2700         |         | 2620         | 2860    |
| 185  |                    |         |              |         | 2410         |         | 2330         |         |
| 190  |                    |         |              |         | 2130         |         | 2050         |         |
| 195  |                    |         |              |         | 1880         |         | 1790         |         |
| 200  |                    |         |              |         |              |         | 1530         |         |
| 205  |                    |         |              |         |              |         | 1260         |         |
| 210  |                    |         |              |         |              |         | 1010         |         |

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



# Load chart

## Main boom, hydraulic extension and inserts

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |  |
| 142 ft<br>Fixed lengths                                                           | 33 ft - 56 ft<br>72 ft - 88 ft<br>Hydraulic luffing<br>swingaway/stationary       | 26,000 lb                                                                         | 100%<br>24 ft 0 in                                                                | 360°                                                                              |

| Feet | 142.3' + 33' |        |         | 142.3' + 56' |        |         | 142.3' + 72' |        |         | 142.3' + 88' |        |         |
|------|--------------|--------|---------|--------------|--------|---------|--------------|--------|---------|--------------|--------|---------|
|      | 5°           | 5°-20° | 20°-40° | 5°           | 5°-20° | 20°-40° | 5°           | 5°-20° | 20°-40° | 5°           | 5°-20° | 20°-40° |
| 35   | 13,800       |        |         |              |        |         |              |        |         |              |        |         |
| 40   | 13,800       |        |         | 8600         |        |         |              |        |         |              |        |         |
| 45   | 13,800       | 13,800 |         | 8600         |        |         |              |        |         |              |        |         |
| 50   | 13,800       | 13,800 | 12,200  | 8600         |        |         | 7000         |        |         | 5520         |        |         |
| 55   | 13,800       | 13,800 | 12,200  | 8600         | 8600   |         | 7000         |        |         | 5520         |        |         |
| 60   | 13,800       | 13,800 | 12,200  | 8600         | 8600   |         | 7000         | 7000   |         | 5520         |        |         |
| 65   | 13,800       | 13,800 | 12,200  | 8600         | 8600   |         | 7000         | 7000   |         | 5520         |        |         |
| 70   | 13,800       | 13,800 | 12,200  | 8600         | 8380   |         | 7000         | 7000   |         | 5520         | 5520   |         |
| 75   | 13,550       | 13,450 | 12,200  | 8600         | 8160   | 6750    | 7000         | 7000   | 6360    | 5520         | 5520   |         |
| 80   | 12,000       | 12,000 | 12,200  | 8600         | 7930   | 6640    | 7000         | 7000   | 6360    | 5520         | 5520   | 5300    |
| 85   | 10,650       | 10,650 | 11,150  | 8600         | 7720   | 6530    | 7000         | 7000   | 6360    | 5520         | 5460   | 5300    |
| 90   | 9490         | 9490   | 9930    | 8600         | 7530   | 6440    | 7000         | 7000   | 6360    | 5520         | 5400   | 5300    |
| 95   | 8450         | 8450   | 8850    | 8600         | 7340   | 6,350   | 7000         | 7000   | 6350    | 5520         | 5330   | 5300    |
| 100  | 7520         | 7520   | 7880    | 8220         | 7170   | 6270    | 7000         | 7000   | 6270    | 5440         | 5270   | 5270    |
| 105  | 6690         | 6690   | 7020    | 7370         | 7010   | 6200    | 7000         | 7000   | 6200    | 5350         | 5210   | 5210    |
| 110  | 5950         | 5950   | 6250    | 6610         | 6610   | 6140    | 6510         | 6510   | 6140    | 5270         | 5140   | 5140    |
| 115  | 5280         | 5280   | 5550    | 5920         | 5920   | 6090    | 5810         | 5810   | 6090    | 5180         | 5080   | 5080    |
| 120  | 4680         | 4680   | 4910    | 5300         | 5300   | 5820    | 5180         | 5180   | 5760    | 5100         | 5020   | 5020    |
| 125  | 4130         | 4130   | 4330    | 4730         | 4730   | 5210    | 4610         | 4610   | 5140    | 4580         | 4580   | 4970    |
| 130  | 3620         | 3620   | 3810    | 4210         | 4210   | 4650    | 4090         | 4090   | 4580    | 4050         | 4050   | 4580    |
| 135  | 3160         | 3160   |         | 3740         | 3740   | 4140    | 3610         | 3610   | 4060    | 3570         | 3570   | 4060    |
| 140  | 2740         | 2740   |         | 3300         | 3300   | 3670    | 3170         | 3170   | 3590    | 3120         | 3120   | 3580    |
| 145  | 2350         | 2350   |         | 2900         | 2900   | 3230    | 2760         | 2760   | 3140    | 2710         | 2710   | 3140    |
| 150  | 1990         | 1990   |         | 2520         | 2520   | 2820    | 2380         | 2380   | 2730    | 2330         | 2330   | 2730    |
| 155  | 1660         | 1660   |         | 2180         | 2180   | 2440    | 2030         | 2030   | 2350    | 1980         | 1980   | 2340    |
| 160  | 1350         |        |         | 1850         | 1850   |         | 1700         | 1700   | 1990    | 1650         | 1650   | 1990    |
| 165  | 1070         |        |         | 1550         | 1550   |         | 1400         | 1400   | 1660    | 1340         | 1340   | 1650    |
| 170  |              |        |         | 1270         | 1270   |         | 1110         | 1110   |         | 1050         | 1050   | 1340    |
| 175  |              |        |         | 1010         | 1010   |         |              |        |         |              |        | 1040    |

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 142 ft<br>Fixed lengths                                                             | 33 ft - 56 ft<br>72 ft - 88 ft<br>Hydraulic luffing<br>swingaway/loads luffing      | 26,000 lb                                                                           | 100%<br>24 ft 0 in                                                                  | 360°                                                                                |

| Feet | 142.3' + 33' |         | 142.3' + 56' |         | 142.3' + 72' |         | 142.3' + 88' |         |
|------|--------------|---------|--------------|---------|--------------|---------|--------------|---------|
|      | 5°-20°       | 20°-40° | 5°-20°       | 20°-40° | 5°-20°       | 20°-40° | 5°-20°       | 20°-40° |
| 35   |              |         |              |         |              |         |              |         |
| 40   |              |         |              |         |              |         |              |         |
| 45   | 13,800       |         |              |         |              |         |              |         |
| 50   | 13,800       | 12,200  |              |         |              |         |              |         |
| 55   | 13,800       | 12,200  | 8130         |         |              |         |              |         |
| 60   | 13,800       | 11,950  | 7790         |         | 7000         |         |              |         |
| 65   | 13,350       | 11,700  | 7490         |         | 7000         |         |              |         |
| 70   | 12,900       | 11,500  | 7210         |         | 6810         |         | 5520         |         |
| 75   | 12,450       | 11,350  | 6940         | 6000    | 6600         | 5470    | 5520         |         |
| 80   | 12,000       | 11,150  | 6690         | 5880    | 6410         | 5380    | 5520         | 4960    |
| 85   | 10,650       | 11,000  | 6460         | 5760    | 6230         | 5290    | 5460         | 4890    |
| 90   | 9490         | 9930    | 6260         | 5660    | 6050         | 5210    | 5400         | 4820    |
| 95   | 8450         | 8850    | 6060         | 5550    | 5880         | 5140    | 5330         | 4760    |
| 100  | 7520         | 7880    | 5880         | 5460    | 5730         | 5070    | 5270         | 4700    |
| 105  | 6690         | 7020    | 5700         | 5380    | 5580         | 5000    | 5210         | 4640    |
| 110  | 5950         | 6250    | 5550         | 5300    | 5450         | 4940    | 5140         | 4590    |
| 115  | 5280         | 5550    | 5400         | 5230    | 5320         | 4880    | 5080         | 4540    |
| 120  | 4680         | 4910    | 5260         | 5170    | 5180         | 4830    | 5020         | 4500    |
| 125  | 4130         | 4330    | 4730         | 5110    | 4610         | 4780    | 4580         | 4450    |
| 130  | 3620         | 3810    | 4210         | 4650    | 4090         | 4580    | 4050         | 4410    |
| 135  | 3160         |         | 3740         | 4140    | 3610         | 4060    | 3570         | 4060    |
| 140  | 2740         |         | 3300         | 3670    | 3170         | 3590    | 3120         | 3580    |
| 145  | 2350         |         | 2900         | 3230    | 2760         | 3140    | 2710         | 3140    |
| 150  | 1990         |         | 2520         | 2820    | 2380         | 2730    | 2330         | 2730    |
| 155  | 1660         |         | 2180         | 2440    | 2030         | 2350    | 1980         | 2340    |
| 160  |              |         | 1850         |         | 1700         | 1990    | 1650         | 1990    |
| 165  |              |         | 1550         |         | 1400         | 1660    | 1340         | 1650    |
| 170  |              |         | 1270         |         | 1110         |         | 1050         | 1340    |
| 175  |              |         | 1010         |         |              |         |              | 1040    |

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 handling

## 11,2 m - 43,4 m (33 ft - 56 ft) folding boom extension (luffing or manual)

### 298 kg (657 lb) hook block

|                            | Without             | With                |
|----------------------------|---------------------|---------------------|
| *33 ft extension (erected) | 2994 kg (6600 lb)   | 4899 kg (10,800 lb) |
| *56 ft extension (erected) | 5579 kg (12,300 lb) | 8754 kg (19,300 lb) |

\*Reduction of main boom capacities

When lifting over main boom nose with 11,2 m or 43,4 m (33 ft or 56 ft) extension erected, the outriggers must be fully extended or 50% extended (4,7 m [15 ft 5 in] spread)

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.

|                     |                |
|---------------------|----------------|
| Auxiliary boom nose | 60 kg (133 lb) |
|---------------------|----------------|

### Hook blocks and headache balls:

|                                            |                    |
|--------------------------------------------|--------------------|
| 73 t (80 Ust), 5-sheave                    | 730 kg (1609 lb) + |
| 55 t (60 Ust), 5-sheave                    | 581 kg (1281 lb) + |
| 36,3 t (40 Ust), 3-sheave                  | 462 kg (1019 lb) + |
| 22,7 t (25 Ust), 1-sheave                  | 298 kg (657 lb) +  |
| 7,5 t (8.3 Ust), overhaul ball             | 161 kg (355 lb) +  |
| + Refer to rating plate for actual weight. |                    |

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

| Hoists             | Cable specs                                                                                                          | Permissible line pulls | Nominal cable length |
|--------------------|----------------------------------------------------------------------------------------------------------------------|------------------------|----------------------|
| Main and auxiliary | 19 mm (3/4 in) Caser Eurolift Rotation Resistant<br>Min. breaking strength 35 690 kg (78,683 lb)                     | 7138 kg (15,736 lb)    | 225 m (738 ft)       |
| Main and auxiliary | 19 mm (3/4 in) Endurance Dyform 34 LR Rotation Resistant, Left Lang Lay Min. Breaking Strength 36 287 kg (80,000 lb) | 7138 kg (15,736 lb)    | 225 m (738 ft)       |
| Main and auxiliary | 19 mm (3/4 in) 35x7 Class Rotation Resistant<br>Min. breaking strength 38 918 kg (85,800 lb)                         | 7784 kg (17,160 lb)    | (214 m) 702 ft       |

The approximate weight of 19 mm (3/4 in) wire rope is 2.2 kg/m (1.5 lb/ft)

### Hoist performance

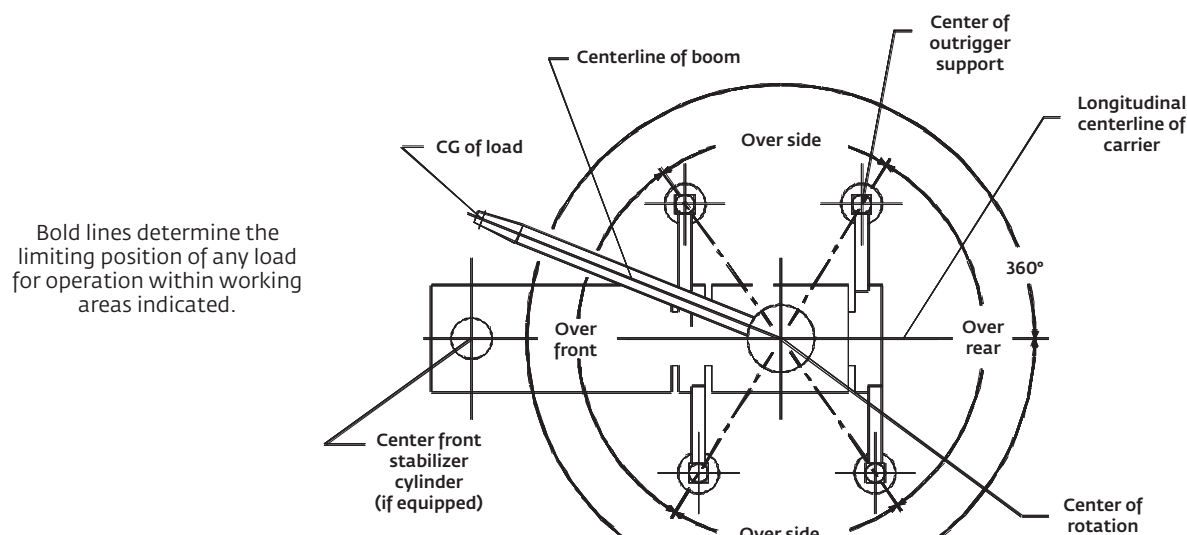
| Wire rope layer | Hoist line pools      | Drum rope capacity m (ft) |                     |
|-----------------|-----------------------|---------------------------|---------------------|
|                 |                       | Available kg (lb)*        | Layer               |
| 1               | 10 034 kg (22,122 lb) | 33,5 m (109.95 ft)        | 33,5 m (109.95 ft)  |
| 2               | 9184 kg (20,247 lb)   | 36,6 m (120.14 ft)        | 70,1 m (230.09 ft)  |
| 3               | 8466 kg (18,665 lb)   | 39,7 m (130.32 ft)        | 109,9 m (360.41 ft) |
| 4               | 7853 kg (17,312 lb)   | 42,8 m (140.50 ft)        | 152,7 m (500.91 ft) |
| 5               | 7321 kg (16,142 lb)   | 45,9 m (150.68 ft)        | 198,6 m (651.59 ft) |
| 6               | 6858 kg (15,120 lb)   | 49,0 m (160.87 ft)        | 247,6 m (812.46 ft) |

\*Max lifting capacity

19 mm Casar Eurolift: 7138 kg (15,736 lb)

19 mm 35x7 Class: 7784 kg (17,160 lb)

### Working area diagram



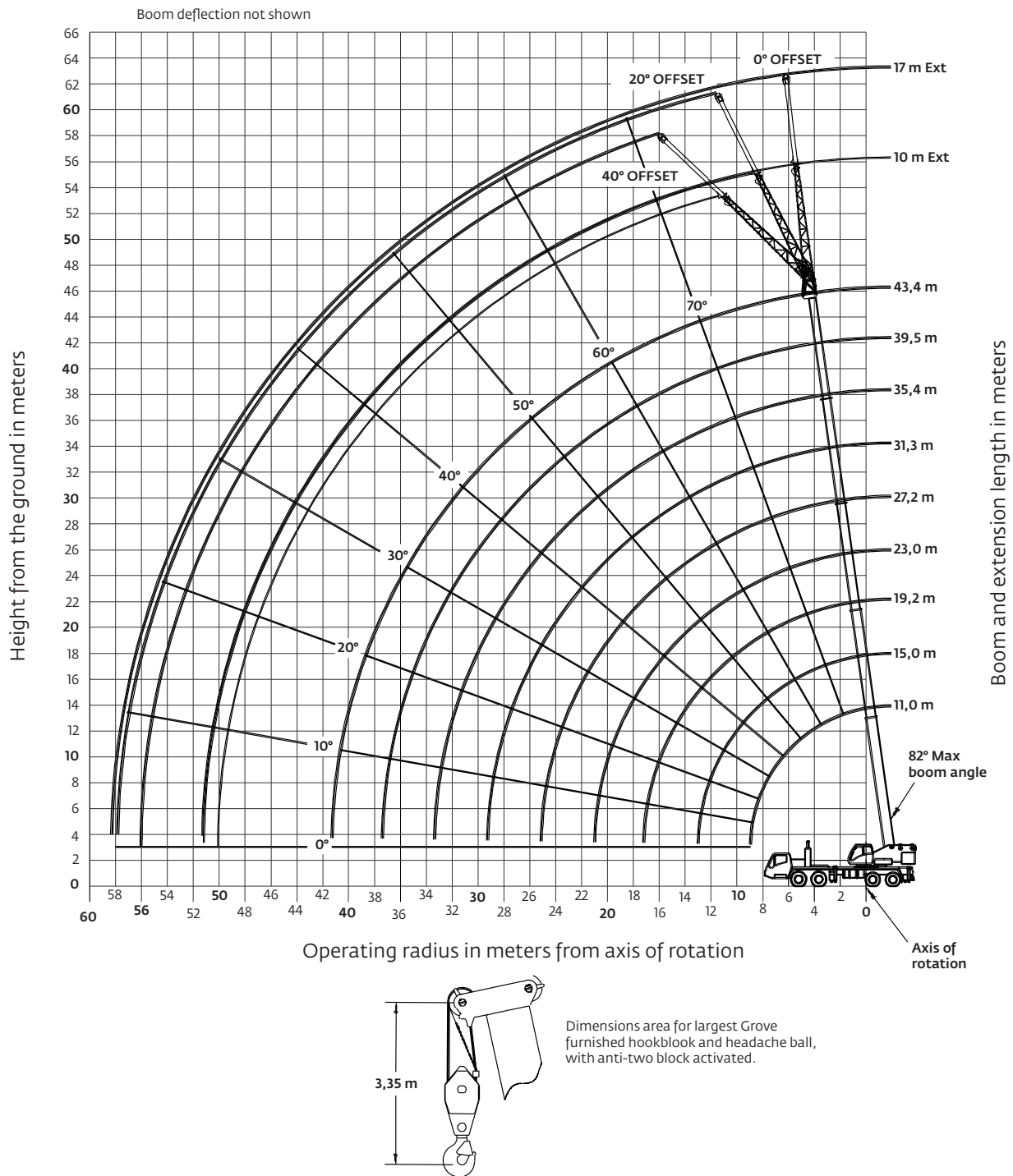
6-829-005671

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# Working range

## Main boom and manual extension (metric)

11,2 m - 43,4 m main boom and manual lattice extension



# Load charts

## Main boom (metric)

 11,2 m - 43,4 m  
Fixed lengths

 22 000 kg

 100%  
7,3 m

 360°



Pounds (thousands)

| Meters | 11,0    | 15,0   | 19,0   | 23,0   | 27,1   | 31,2   | 35,3   | 39,4   | 43,4   |
|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2,5    | *90 000 |        |        |        |        |        |        |        |        |
| 3      | 75 000  | 63 100 | 59 500 | 55 800 | 37 625 |        |        |        |        |
| 4      | 65 050  | 62 850 | 59 000 | 51 025 | 37 625 | 27 175 |        |        |        |
| 5      | 56 300  | 54 700 | 52 475 | 50 150 | 37 625 | 27 175 |        |        |        |
| 6      | 48 675  | 48 375 | 46 375 | 45 600 | 37 150 | 27 175 | 20 175 | 15 175 |        |
| 7      | 41 850  | 42 325 | 41 500 | 40 825 | 34 900 | 26 625 | 20 175 | 15 175 | 12 075 |
| 8      | 34 775  | 37 025 | 36 375 | 36 850 | 32 425 | 25 000 | 20 175 | 15 175 | 12 075 |
| 9      |         | 32 450 | 32 400 | 32 525 | 30 050 | 22 975 | 20 175 | 15 175 | 12 075 |
| 10     |         | 28 525 | 28 800 | 28 600 | 28 050 | 21 300 | 19 025 | 15 175 | 12 075 |
| 11     |         | 25 300 | 25 500 | 25 175 | 25 775 | 19 800 | 17 775 | 15 175 | 12 075 |
| 12     |         | 22 425 | 22 675 | 22 350 | 22 950 | 18 450 | 16 650 | 15 075 | 12 075 |
| 13     |         |        | 20 325 | 20 425 | 20 625 | 17 250 | 15 375 | 14 225 | 12 075 |
| 14     |         |        | 18 325 | 19 025 | 18 650 | 16 175 | 14 450 | 13 425 | 12 075 |
| 15     |         |        | 17 000 | 17 350 | 16 975 | 15 025 | 13 600 | 12 675 | 11 900 |
| 16     |         |        | 15 825 | 15 875 | 15 525 | 14 225 | 12 825 | 11 975 | 11 375 |
| 18     |         |        |        | 13 325 | 13 000 | 12 975 | 11 475 | 10 750 | 10 275 |
| 20     |         |        |        | 11 350 | 11 050 | 11 350 | 10 325 | 9705   | 9330   |
| 22     |         |        |        |        | 9785   | 9830   | 9165   | 8800   | 8490   |
| 24     |         |        |        |        | 8895   | 8585   | 8475   | 8020   | 7440   |
| 26     |         |        |        |        |        | 7545   | 7590   | 7040   | 6820   |
| 28     |         |        |        |        |        | 6690   | 6855   | 6310   | 6275   |
| 30     |         |        |        |        |        |        | 6100   | 5875   | 5780   |
| 32     |         |        |        |        |        |        | 5460   | 5425   | 5150   |
| 34     |         |        |        |        |        |        |        | 4865   | 4600   |
| 36     |         |        |        |        |        |        |        | 4375   | 4115   |
| 38     |         |        |        |        |        |        |        |        | 3680   |
| 40     |         |        |        |        |        |        |        |        | 3300   |

\*Requires special equipment.

 11,2 m - 43,4 m  
Fixed lengths

 20 000 kg

 100%  
7,3 m

 360°



Pounds (thousands)

| Meters | 11,0   | 15,0   | 19,0   | 23,0   | 27,1   | 31,2   | 35,3   | 39,4   | 43,4   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3      | 75 000 | 63 100 | 59 500 | 55 800 | 37 625 |        |        |        |        |
| 4      | 65 050 | 62 850 | 59 000 | 51 025 | 37 625 | 27 175 |        |        |        |
| 5      | 56 300 | 54 700 | 52 475 | 50 150 | 37 625 | 27 175 |        |        |        |
| 6      | 48 375 | 48 375 | 46 375 | 45 600 | 37 150 | 27 175 | 20 175 | 15 175 |        |
| 7      | 41 625 | 42 325 | 41 500 | 40 825 | 34 900 | 26 625 | 20 175 | 15 175 | 12 075 |
| 8      | 34 775 | 36 300 | 35 725 | 36 375 | 32 425 | 25 000 | 20 175 | 15 175 | 12 075 |
| 9      |        | 31 475 | 31 750 | 31 550 | 30 050 | 22 975 | 20 175 | 15 175 | 12 075 |
| 10     |        | 27 650 | 27 925 | 27 575 | 28 050 | 21 300 | 19 025 | 15 175 | 12 075 |
| 11     |        | 24 350 | 24 550 | 24 225 | 24 825 | 19 800 | 17 775 | 15 175 | 12 075 |
| 12     |        | 21 575 | 21 825 | 21 800 | 22 100 | 18 450 | 16 650 | 15 075 | 12 075 |
| 13     |        |        | 19 550 | 20 225 | 19 825 | 17 250 | 15 375 | 14 225 | 12 075 |
| 14     |        |        | 17 975 | 18 300 | 17 925 | 16 175 | 14 450 | 13 425 | 12 075 |
| 15     |        |        | 16 550 | 16 500 | 16 150 | 15 025 | 13 600 | 12 675 | 11 900 |
| 16     |        |        | 15 000 | 14 975 | 14 625 | 14 225 | 12 825 | 11 975 | 11 375 |
| 18     |        |        |        | 12 550 | 12 200 | 12 550 | 11 475 | 10 750 | 10 275 |
| 20     |        |        |        | 10 665 | 10 600 | 10 675 | 10 000 | 9705   | 9330   |
| 22     |        |        |        |        | 9545   | 9 210  | 9150   | 8725   | 8490   |
| 24     |        |        |        |        | 8335   | 8 025  | 8155   | 7540   | 7440   |
| 26     |        |        |        |        |        | 7 060  | 7210   | 6805   | 6820   |
| 28     |        |        |        |        |        | 6 360  | 6385   | 6310   | 6045   |
| 30     |        |        |        |        |        |        | 5665   | 5625   | 5345   |
| 32     |        |        |        |        |        |        | 5055   | 5020   | 4745   |
| 34     |        |        |        |        |        |        |        | 4485   | 4225   |
| 36     |        |        |        |        |        |        |        | 4020   | 3760   |
| 38     |        |        |        |        |        |        |        |        | 3345   |
| 40     |        |        |        |        |        |        |        |        | 2980   |

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

# Load charts

## Main boom (metric)

 11,2 m - 43,4 m  
Fixed lengths

 11 800 kg

 100%  
7,3 m

 360°

| Meters | 11,0   | 15,0   | 19,0   | 23,0   | 27,1   | 31,2   | 35,3   | 39,4   | 43,4   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3      | 75 000 | 63 100 | 59 500 | 55 800 | 37 625 |        |        |        |        |
| 4      | 65 050 | 62 850 | 59 000 | 51 025 | 37 625 | 27 175 |        |        |        |
| 5      | 53 800 | 54 525 | 52 475 | 50 150 | 37 625 | 27 175 |        |        |        |
| 6      | 44 275 | 45 200 | 44 525 | 45 100 | 37 150 | 27 175 | 20 175 | 15 175 |        |
| 7      | 36 625 | 37 525 | 37 825 | 37 525 | 34 900 | 26 625 | 20 175 | 15 175 | 12 075 |
| 8      | 31 000 | 31 900 | 32 175 | 31 850 | 32 425 | 25 000 | 20 175 | 15 175 | 12 075 |
| 9      |        | 27 300 | 27 400 | 27 400 | 27 700 | 22 975 | 20 175 | 15 175 | 12 075 |
| 10     |        | 23 625 | 23 500 | 24 025 | 23 575 | 21 300 | 19 025 | 15 175 | 12 075 |
| 11     |        | 20 200 | 20 650 | 20 600 | 20 175 | 19 725 | 17 775 | 15 175 | 12 075 |
| 12     |        | 17 475 | 17 975 | 17 900 | 17 525 | 17 575 | 16 650 | 15 075 | 12 075 |
| 13     |        |        | 15 825 | 15 775 | 15 375 | 15 750 | 14 975 | 14 225 | 12 075 |
| 14     |        |        | 14 100 | 14 050 | 14 225 | 14 050 | 13 475 | 13 425 | 12 075 |
| 15     |        |        | 12 625 | 12 600 | 12 950 | 12 575 | 12 575 | 12 050 | 11 900 |
| 16     |        |        | 11 375 | 11 400 | 11 725 | 11 350 | 11 500 | 11 025 | 11 125 |
| 18     |        |        |        | 9915   | 9760   | 9850   | 9550   | 9485   | 9175   |
| 20     |        |        |        | 8380   | 8260   | 8370   | 8180   | 7985   | 7680   |
| 22     |        |        |        |        | 7085   | 7215   | 7040   | 6850   | 6560   |
| 24     |        |        |        |        | 6220   | 6250   | 6070   | 5880   | 5590   |
| 26     |        |        |        |        |        | 5440   | 5260   | 5075   | 4785   |
| 28     |        |        |        |        |        | 4765   | 4585   | 4400   | 4115   |
| 30     |        |        |        |        |        |        | 4015   | 3830   | 3545   |
| 32     |        |        |        |        |        |        | 3525   | 3340   | 3060   |
| 34     |        |        |        |        |        |        |        | 2920   | 2640   |
| 36     |        |        |        |        |        |        |        | 2550   | 2270   |
| 38     |        |        |        |        |        |        |        |        | 1945   |
| 40     |        |        |        |        |        |        |        |        | 1660   |

 11,2 m - 43,4 m  
Fixed lengths

 5000 kg

 100%  
7,3 m

 360°

| Meters | 11,0   | 15,0   | 19,0   | 23,0   | 27,1   | 31,2   | 35,3   | 39,4   | 43,4   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3      | 75 000 | 63 100 | 59 500 | 55 800 | 37 625 |        |        |        |        |
| 4      | 62 100 | 62 825 | 59 000 | 51 025 | 37 625 | 27 175 |        |        |        |
| 5      | 49 150 | 50 125 | 49 300 | 49 925 | 37 625 | 27 175 |        |        |        |
| 6      | 39 275 | 40 200 | 40 450 | 40 100 | 37 150 | 27 175 | 20 175 | 15 175 |        |
| 7      | 32 400 | 33 250 | 33 375 | 32 975 | 33 675 | 26 625 | 20 175 | 15 175 | 12 075 |
| 8      | 25 550 | 26 775 | 27 325 | 27 250 | 26 750 | 25 000 | 20 175 | 15 175 | 12 075 |
| 9      |        | 21 650 | 22 150 | 22 075 | 21 650 | 21 125 | 20 175 | 15 175 | 12 075 |
| 10     |        | 18 000 | 18 475 | 18 425 | 18 275 | 18 400 | 17 525 | 15 175 | 12 075 |
| 11     |        | 15 275 | 15 725 | 15 675 | 16 075 | 15 650 | 15 700 | 15 050 | 12 075 |
| 12     |        | 13 100 | 13 625 | 14 150 | 13 975 | 13 775 | 13 725 | 13 650 | 12 075 |
| 13     |        |        | 11 900 | 12 425 | 12 250 | 12 400 | 12 175 | 11 950 | 11 600 |
| 14     |        |        | 10 550 | 10 950 | 10 925 | 10 925 | 10 725 | 10 475 | 10 150 |
| 15     |        |        | 9350   | 9750   | 9720   | 9715   | 9510   | 9285   | 8945   |
| 16     |        |        | 8340   | 8730   | 8695   | 8690   | 8490   | 8270   | 7940   |
| 18     |        |        |        | 7140   | 7115   | 7115   | 6925   | 6725   | 6140   |
| 20     |        |        |        | 5920   | 5895   | 5895   | 5710   | 5515   | 5210   |
| 22     |        |        |        |        | 4945   | 4940   | 4760   | 4570   | 4270   |
| 24     |        |        |        |        | 4180   | 4180   | 4000   | 3810   | 3515   |
| 26     |        |        |        |        |        | 3555   | 3375   | 3185   | 2900   |
| 28     |        |        |        |        |        | 3030   | 2855   | 2670   | 2385   |
| 30     |        |        |        |        |        |        | 2415   | 2230   | 1945   |
| 32     |        |        |        |        |        |        | 2035   | 1855   | 1575   |
| 34     |        |        |        |        |        |        |        | 1530   | 1250   |
| 36     |        |        |        |        |        |        |        | 1245   | 965    |
| 38     |        |        |        |        |        |        |        |        | 720    |
| 40     |        |        |        |        |        |        |        |        | 500    |

# Load chart

## Main boom (metric)

  
11,2 m - 43,4 m  
Fixed lengths

  
0 kg

  
100%  
7,3 m

  
360°



Pounds (thousands)

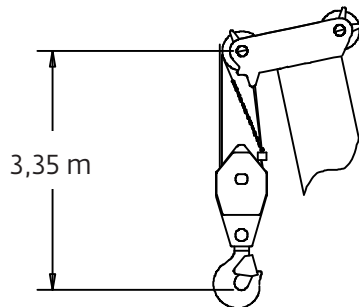
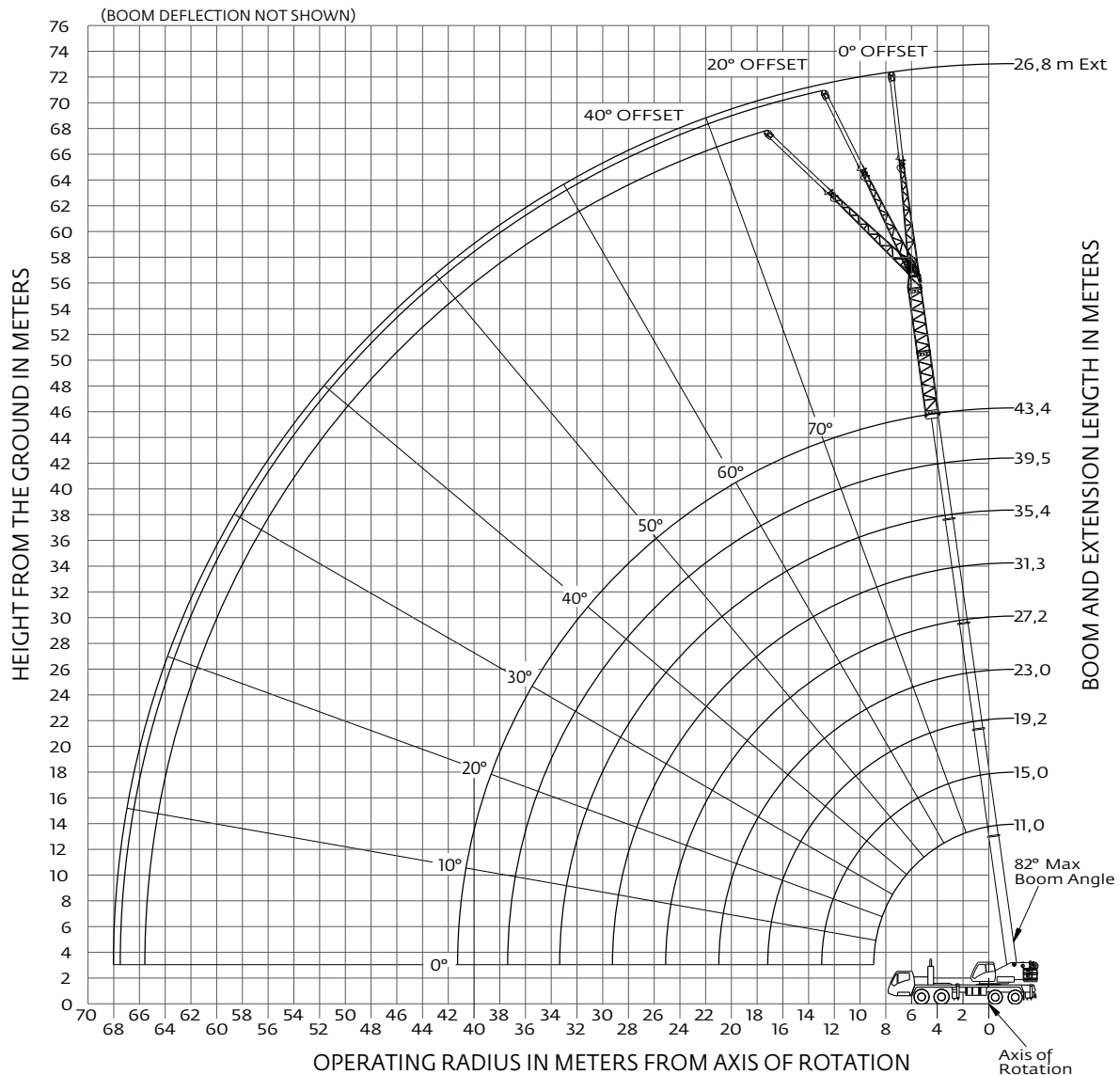
| Meters | 11,0   | 15,0   | 19,0   | 23,0   | 27,1   | 31,2   | 35,3   | 39,4   | 43,4   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3      | 72 675 | 63 100 | 59 500 | 55 800 | 37 625 |        |        |        |        |
| 4      | 58 875 | 59 775 | 58 850 | 51 025 | 37 625 | 27 175 |        |        |        |
| 5      | 44 675 | 45 650 | 45 800 | 45 450 | 37 625 | 27 175 |        |        |        |
| 6      | 35 325 | 36 250 | 36 400 | 36 125 | 36 775 | 27 175 | 20 175 | 15 175 |        |
| 7      | 25 900 | 27 200 | 27 825 | 27 750 | 27 200 | 26 575 | 20 175 | 15 175 | 12 075 |
| 8      | 19 700 | 20 950 | 21 500 | 21 425 | 20 950 | 21 425 | 20 175 | 15 175 | 12 075 |
| 9      |        | 16 800 | 17 300 | 17 675 | 17 700 | 17 225 | 17 425 | 15 175 | 12 075 |
| 10     |        | 13 625 | 14 175 | 14 775 | 14 550 | 14 725 | 14 475 | 14 250 | 12 075 |
| 11     |        | 11 300 | 11 900 | 12 375 | 12 350 | 12 350 | 12 125 | 11 875 | 11 475 |
| 12     |        | 9525   | 10 100 | 10 550 | 10 525 | 10 525 | 10 300 | 10 050 | 9690   |
| 13     |        |        | 8690   | 9125   | 9095   | 9095   | 8880   | 8640   | 8280   |
| 14     |        |        | 7550   | 7965   | 7935   | 7935   | 7720   | 7490   | 7205   |
| 15     |        |        | 6625   | 7035   | 7015   | 7020   | 6820   | 6605   | 6270   |
| 16     |        |        | 5830   | 6235   | 6215   | 6215   | 6020   | 5810   | 5485   |
| 18     |        |        |        | 4975   | 4945   | 4950   | 4760   | 4560   | 4245   |
| 20     |        |        |        | 4020   | 3995   | 3995   | 3810   | 3615   | 3310   |
| 22     |        |        |        |        | 3250   | 3250   | 3065   | 2875   | 2575   |
| 24     |        |        |        |        | 2650   | 2650   | 2470   | 2280   | 1990   |
| 26     |        |        |        |        |        | 2165   | 1985   | 1795   | 1510   |
| 28     |        |        |        |        |        | 1755   | 1580   | 1390   | 1105   |
| 30     |        |        |        |        |        |        | 1235   | 1050   | 770    |
| 32     |        |        |        |        |        |        | 940    | 760    |        |
| 34     |        |        |        |        |        |        |        | 505    |        |

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

# Working range

## Main boom, manual extension and inserts (metric)

11,2 m - 43,4 m main boom, manual lattice extension and two 5 m inserts



Dimensions area for largest Grove furnished hookblock and headache ball, with anti-two block activated.

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

# Load chart

## Main boom, manual extension and inserts (metric)

 43,4 m  
Fixed lengths
  10 m - 17 m  
21,9 m - 26,8 m  
Manual offsettable  
swingaway
  22 000 kg
  100%  
7,3 m
  360°

| Pounds (thousands) |      |                  |       |      |                  |      |      |                    |      |      |                    |      |
|--------------------|------|------------------|-------|------|------------------|------|------|--------------------|------|------|--------------------|------|
| Meters             | 0°   | 43,4 + 10<br>20° | 40°   | 0°   | 43,4 + 17<br>20° | 40°  | 0°   | 43,4 + 21,9<br>20° | 40°  | 0°   | 43,4 + 26,8<br>20° | 40°  |
| 9                  | 6195 |                  |       |      |                  |      |      |                    |      |      |                    |      |
| 10                 | 6195 |                  |       |      |                  |      |      |                    |      |      |                    |      |
| 11                 | 6195 |                  |       | 3845 |                  |      |      |                    |      |      |                    |      |
| 12                 | 6195 |                  |       | 3845 |                  |      |      |                    |      |      |                    |      |
| 13                 | 6195 |                  |       | 3845 |                  |      |      |                    |      |      |                    |      |
| 14                 | 6195 | 6465             |       | 3845 |                  |      | 3145 |                    |      |      |                    |      |
| 15                 | 6195 | 6465             | 5550  | 3845 |                  |      | 3145 |                    |      | 2500 |                    |      |
| 16                 | 6195 | 6465             | 5550  | 3845 |                  |      | 3145 |                    |      | 2500 |                    |      |
| 18                 | 6195 | 6465             | 5550  | 3845 | 3935             |      | 3145 | 3375               |      | 2500 |                    |      |
| 20                 | 6195 | 6465             | 5550  | 3845 | 3895             |      | 3145 | 3375               |      | 2500 | 2605               |      |
| 22                 | 6195 | 6280             | 5550  | 3845 | 3755             |      | 3145 | 3375               |      | 2500 | 2565               |      |
| 24                 | 5970 | 5940             | 5550  | 3845 | 3625             | 3025 | 3145 | 3375               | 2905 | 2500 | 2525               |      |
| 26                 | 5555 | 5545             | 5,550 | 3845 | 3500             | 2960 | 3145 | 3365               | 2905 | 2500 | 2485               | 2450 |
| 28                 | 5175 | 5175             | 5285  | 3845 | 3385             | 2905 | 3145 | 3310               | 2900 | 2500 | 2445               | 2435 |
| 30                 | 4825 | 4840             | 4945  | 3845 | 3280             | 2855 | 3145 | 3255               | 2855 | 2500 | 2410               | 2405 |
| 32                 | 4475 | 4530             | 4630  | 3845 | 3185             | 2815 | 3145 | 3195               | 2815 | 2470 | 2370               | 2375 |
| 34                 | 4135 | 4245             | 4345  | 3750 | 3095             | 2780 | 3145 | 3075               | 2780 | 2415 | 2335               | 2350 |
| 36                 | 3825 | 3925             | 4050  | 3585 | 3020             | 2750 | 3085 | 2950               | 2750 | 2365 | 2300               | 2325 |
| 38                 | 3545 | 3635             | 3740  | 3375 | 2950             | 2730 | 2950 | 2835               | 2725 | 2315 | 2265               | 2295 |
| 40                 | 3225 | 3340             | 3375  | 3180 | 2885             | 2715 | 2825 | 2725               | 2705 | 2265 | 2225               | 2255 |
| 42                 | 2885 | 2975             |       | 2995 | 2830             | 2705 | 2660 | 2625               | 2660 | 2215 | 2180               | 2215 |
| 44                 | 2580 | 2650             |       | 2785 | 2785             | 2705 | 2500 | 2530               | 2575 | 2130 | 2095               | 2150 |
| 46                 | 2305 | 2355             |       | 2505 | 2680             | 2705 | 2350 | 2440               | 2500 | 2035 | 2010               | 2065 |
| 48                 | 2060 | 2085             |       | 2250 | 2400             |      | 2175 | 2295               | 2420 | 1945 | 1930               | 1990 |
| 50                 | 1840 |                  |       | 2015 | 2140             |      | 1940 | 2105               | 2180 | 1845 | 1855               | 1915 |
| 52                 |      |                  |       | 1805 | 1900             |      | 1725 | 1865               |      | 1685 | 1785               | 1850 |
| 54                 |      |                  |       | 1610 | 1680             |      | 1525 | 1650               |      | 1485 | 1640               | 1710 |
| 56                 |      |                  |       | 1435 |                  |      | 1345 | 1445               |      | 1300 | 1440               |      |
| 58                 |      |                  |       | 525  |                  |      | 1180 | 1255               |      | 1135 | 1250               |      |
| 60                 |      |                  |       |      |                  |      | 1030 |                    |      | 980  | 1075               |      |
| 62                 |      |                  |       |      |                  |      | 895  |                    |      | 835  | 910                |      |
| 64                 |      |                  |       |      |                  |      |      |                    |      | 700  | 755                |      |
| 66                 |      |                  |       |      |                  |      |      |                    |      | 585  |                    |      |

 43,4 m  
Fixed lengths
  10 m - 17 m  
21,9 m - 26,8 m  
Manual offsettable  
swingaway
  20 000 kg
  100%  
7,3 m
  360°

| Pounds (thousands) |      |                  |      |      |                  |      |      |                    |      |      |                    |      |
|--------------------|------|------------------|------|------|------------------|------|------|--------------------|------|------|--------------------|------|
| Meters             | 0°   | 43,4 + 10<br>20° | 40°  | 0°   | 43,4 + 17<br>20° | 40°  | 0°   | 43,4 + 21,9<br>20° | 40°  | 0°   | 43,4 + 26,8<br>20° | 40°  |
| 9                  | 6195 |                  |      |      |                  |      |      |                    |      |      |                    |      |
| 10                 | 6195 |                  |      |      |                  |      |      |                    |      |      |                    |      |
| 11                 | 6195 |                  |      | 3845 |                  |      |      |                    |      |      |                    |      |
| 12                 | 6195 |                  |      | 3845 |                  |      |      |                    |      |      |                    |      |
| 13                 | 6195 |                  |      | 3845 |                  |      |      |                    |      |      |                    |      |
| 14                 | 6195 | 6465             |      | 3845 |                  |      | 3145 |                    |      |      |                    |      |
| 15                 | 6195 | 6465             | 5550 | 3845 |                  |      | 3145 |                    |      | 2500 |                    |      |
| 16                 | 6195 | 6465             | 5550 | 3845 |                  |      | 3145 |                    |      | 2500 |                    |      |
| 18                 | 6195 | 6465             | 5550 | 3845 | 3935             |      | 3145 | 3375               |      | 2500 |                    |      |
| 20                 | 6195 | 6465             | 5550 | 3845 | 3895             |      | 3145 | 3375               |      | 2500 | 2605               |      |
| 22                 | 6195 | 6280             | 5550 | 3845 | 3755             |      | 3145 | 3375               |      | 2500 | 2565               |      |
| 24                 | 5970 | 5940             | 5550 | 3845 | 3625             | 3025 | 3145 | 3375               | 2905 | 2500 | 2525               |      |
| 26                 | 5555 | 5545             | 5550 | 3845 | 3500             | 2960 | 3145 | 3365               | 2905 | 2500 | 2485               | 2450 |
| 28                 | 5175 | 5175             | 5285 | 3845 | 3385             | 2905 | 3145 | 3310               | 2900 | 2500 | 2445               | 2435 |
| 30                 | 4825 | 4840             | 4945 | 3845 | 3280             | 2855 | 3145 | 3255               | 2855 | 2500 | 2410               | 2405 |
| 32                 | 4475 | 4530             | 4630 | 3845 | 3185             | 2815 | 3145 | 3195               | 2815 | 2470 | 2370               | 2375 |
| 34                 | 4135 | 4245             | 4345 | 3750 | 3095             | 2780 | 3145 | 3075               | 2780 | 2415 | 2335               | 2350 |
| 36                 | 3680 | 3835             | 3910 | 3585 | 3020             | 2750 | 3085 | 2950               | 2750 | 2365 | 2300               | 2325 |
| 38                 | 3275 | 3405             | 3460 | 3375 | 2950             | 2730 | 2950 | 2835               | 2725 | 2315 | 2265               | 2295 |
| 40                 | 2910 | 3020             | 3060 | 3125 | 2885             | 2715 | 2825 | 2725               | 2705 | 2265 | 2225               | 2255 |
| 42                 | 2585 | 2675             |      | 2795 | 2830             | 2705 | 2660 | 2625               | 2660 | 2215 | 2180               | 2215 |
| 44                 | 2295 | 2365             |      | 2500 | 2705             | 2705 | 2430 | 2530               | 2575 | 2130 | 2095               | 2150 |
| 46                 | 2035 | 2085             |      | 2230 | 2410             | 2490 | 2160 | 2375               | 2495 | 2035 | 2010               | 2065 |
| 48                 | 1795 | 1825             |      | 1985 | 2140             |      | 1915 | 2105               | 2200 | 1880 | 1930               | 1990 |
| 50                 | 1590 |                  |      | 1765 | 1890             |      | 1690 | 1855               | 1930 | 1655 | 1850               | 1915 |
| 52                 |      |                  |      | 1565 | 1665             |      | 1485 | 1630               |      | 1445 | 1620               | 1710 |
| 54                 |      |                  |      | 1380 | 1450             |      | 1295 | 1420               |      | 1255 | 1410               | 1480 |
| 56                 |      |                  |      | 1215 |                  |      | 1125 | 1225               |      | 1080 | 1215               |      |
| 58                 |      |                  |      | 525  |                  |      | 970  | 1040               |      | 920  | 1035               |      |
| 60                 |      |                  |      |      |                  |      | 825  |                    |      | 770  | 870                |      |
| 62                 |      |                  |      |      |                  |      | 695  |                    |      | 635  | 710                |      |
| 64                 |      |                  |      |      |                  |      |      |                    |      | 510  | 560                |      |

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Grove TMS9000E The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.



# Load chart

## Main boom, manual extension and inserts (metric)



Pounds (thousands)

| Meters | 0°   | 43,4 + 10<br>20° | 40°  | 0°   | 43,4 + 17<br>20° | 40°  | 0°   | 43,4 + 21,9<br>20° | 40°  | 0°   | 43,4 + 26,8<br>20° | 40°  |
|--------|------|------------------|------|------|------------------|------|------|--------------------|------|------|--------------------|------|
| 9      | 6195 |                  |      |      |                  |      |      |                    |      |      |                    |      |
| 10     | 6195 |                  |      |      |                  |      |      |                    |      |      |                    |      |
| 11     | 6195 |                  |      | 3845 |                  |      |      |                    |      |      |                    |      |
| 12     | 6195 |                  |      | 3845 |                  |      |      |                    |      |      |                    |      |
| 13     | 6195 |                  |      | 3845 |                  |      |      |                    |      |      |                    |      |
| 14     | 6195 | 6465             |      | 3845 |                  |      | 3145 |                    |      |      |                    |      |
| 15     | 6195 | 6465             | 5550 | 3845 |                  |      | 3145 |                    |      | 2500 |                    |      |
| 16     | 6195 | 6465             | 5550 | 3845 |                  |      | 3145 |                    |      | 2500 |                    |      |
| 18     | 6195 | 6465             | 5550 | 3845 | 3935             |      | 3145 | 3375               |      | 2500 |                    |      |
| 20     | 6195 | 6465             | 5550 | 3845 | 3895             |      | 3145 | 3375               |      | 2500 | 2605               |      |
| 22     | 6195 | 6280             | 5550 | 3845 | 3755             |      | 3145 | 3375               |      | 2500 | 2565               |      |
| 24     | 5560 | 5895             | 5550 | 3845 | 3625             | 3025 | 3145 | 3375               | 2905 | 2500 | 2525               |      |
| 26     | 4755 | 5055             | 5265 | 3845 | 3500             | 2960 | 3145 | 3365               | 2905 | 2500 | 2485               | 2450 |
| 28     | 4075 | 4340             | 4520 | 3845 | 3385             | 2905 | 3145 | 3310               | 2900 | 2500 | 2445               | 2435 |
| 30     | 3500 | 3730             | 3880 | 3760 | 3280             | 2855 | 3145 | 3255               | 2855 | 2500 | 2410               | 2405 |
| 32     | 3005 | 3210             | 3335 | 3255 | 3185             | 2815 | 3145 | 3195               | 2815 | 2470 | 2370               | 2375 |
| 34     | 2580 | 2755             | 2860 | 2820 | 3095             | 2780 | 2770 | 3075               | 2780 | 2415 | 2335               | 2350 |
| 36     | 2205 | 2360             | 2440 | 2440 | 2775             | 2750 | 2390 | 2750               | 2750 | 2365 | 2300               | 2325 |
| 38     | 1875 | 2010             | 2065 | 2105 | 2405             | 2605 | 2050 | 2380               | 2610 | 2030 | 2265               | 2295 |
| 40     | 1580 | 1695             | 1735 | 1805 | 2075             | 2245 | 1750 | 2045               | 2250 | 1725 | 2045               | 2255 |
| 42     | 1320 | 1415             |      | 1540 | 1775             | 1920 | 1480 | 1750               | 1925 | 1455 | 1750               | 1950 |
| 44     | 1090 | 1165             |      | 1300 | 1510             | 1620 | 1235 | 1480               | 1630 | 1210 | 1480               | 1655 |
| 46     | 880  | 935              |      | 1085 | 1265             | 1350 | 1020 | 1235               | 1360 | 990  | 1235               | 1385 |
| 48     | 695  | 725              |      | 890  | 1045             |      | 820  | 1015               | 1115 | 790  | 1010               | 1140 |
| 50     | 530  |                  |      | 715  | 840              |      | 640  | 810                | 885  | 610  | 805                | 915  |
| 52     |      |                  |      | 555  | 655              |      |      | 625                |      |      | 620                | 705  |
| 54     |      |                  |      |      |                  |      |      |                    |      |      |                    | 515  |

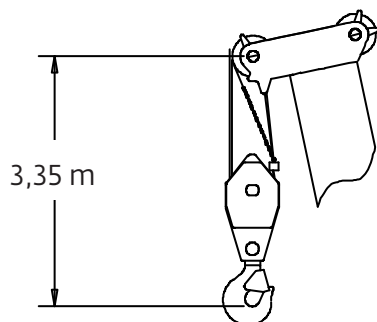
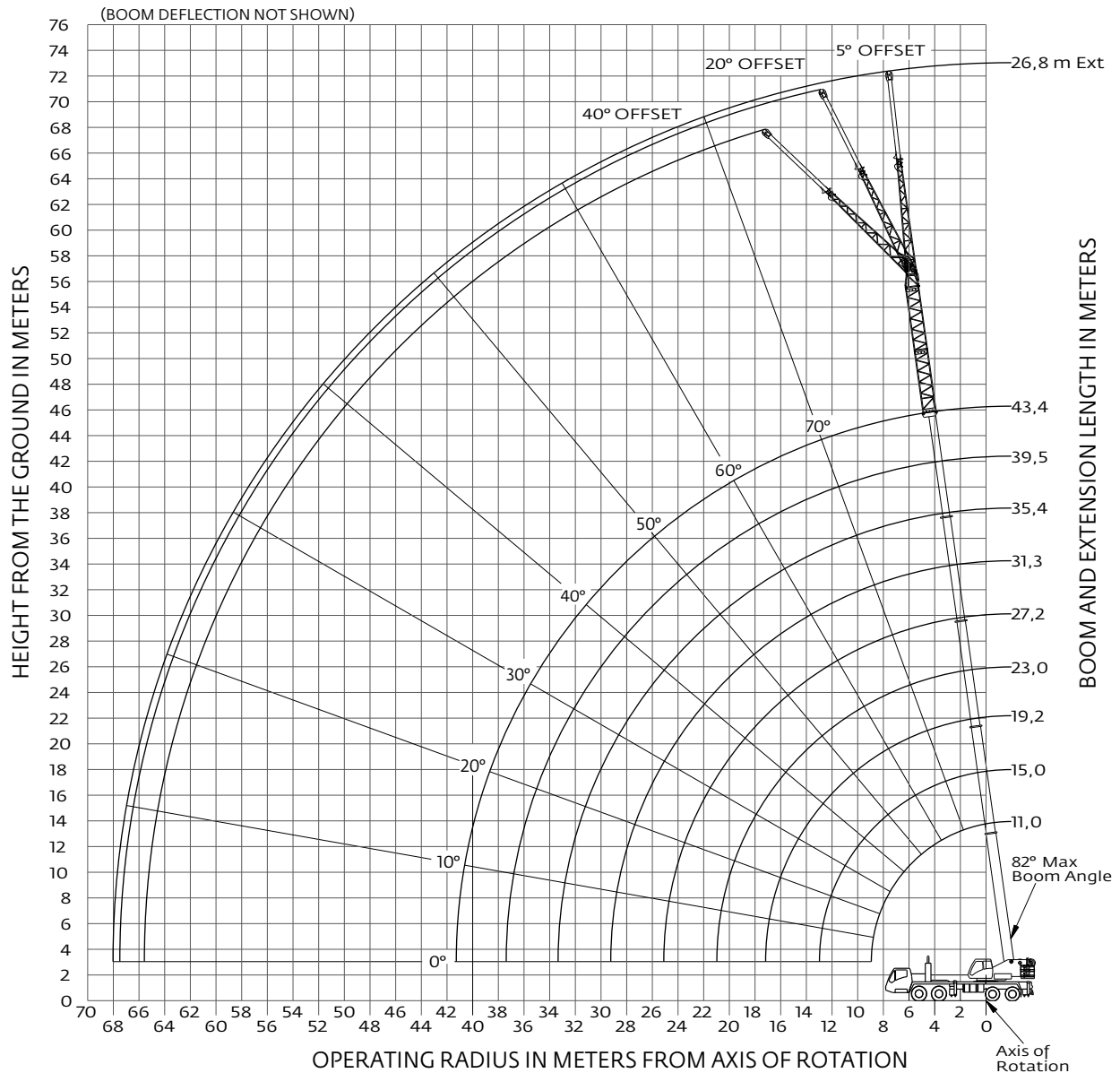
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# Working range

## Main boom, hydraulic extension and inserts (metric)

11,2 m - 43,4 m main boom, hydraulic lattice extension and two 5 m inserts



Dimensions area for largest Grove furnished hookblock and headache ball, with anti-two block activated.

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# Load charts

## Main boom, hydraulic extension and inserts (metric)

 43,4 m  
Fixed lengths
  10 m - 17 m  
21,9 m - 26,8 m  
Hydraulic luffing  
swingaway/stationary
  22 000 kg
  100%  
7,3 m
  360°

|  |      |  Pounds (thousands) |         |      |                     |         |      |                       |         |      |                       |         |
|-----------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------|---------|------|---------------------|---------|------|-----------------------|---------|------|-----------------------|---------|
| Meters                                                                            | 5°   | 43,4 + 10<br>5°-20°                                                                                  | 20°-40° | 5°   | 43,4 + 17<br>5°-20° | 20°-40° | 5°   | 43,4 + 21,9<br>5°-20° | 20°-40° | 5°   | 43,4 + 26,8<br>5°-20° | 20°-40° |
| 11                                                                                | 6275 |                                                                                                      |         |      |                     |         |      |                       |         |      |                       |         |
| 12                                                                                | 6275 |                                                                                                      |         | 3895 |                     |         |      |                       |         |      |                       |         |
| 13                                                                                | 6275 |                                                                                                      |         | 3895 |                     |         |      |                       |         |      |                       |         |
| 14                                                                                | 6275 | 6275                                                                                                 |         | 3895 |                     |         | 3155 |                       |         |      |                       |         |
| 15                                                                                | 6275 | 6275                                                                                                 | 5540    | 3895 |                     |         | 3155 |                       |         | 2500 |                       |         |
| 16                                                                                | 6275 | 6275                                                                                                 | 5540    | 3895 |                     |         | 3155 |                       |         | 2500 |                       |         |
| 18                                                                                | 6275 | 6275                                                                                                 | 5540    | 3895 | 3895                |         | 3155 | 3155                  |         | 2500 |                       |         |
| 20                                                                                | 6275 | 6275                                                                                                 | 5540    | 3895 | 3895                |         | 3155 | 3155                  |         | 2500 | 2500                  |         |
| 22                                                                                | 6275 | 6265                                                                                                 | 5540    | 3895 | 3755                |         | 3155 | 3155                  |         | 2500 | 2500                  |         |
| 24                                                                                | 5930 | 5920                                                                                                 | 5540    | 3895 | 3625                | 3025    | 3155 | 3155                  | 2895    | 2500 | 2500                  |         |
| 26                                                                                | 5520 | 5520                                                                                                 | 5525    | 3895 | 3495                | 2960    | 3155 | 3155                  | 2895    | 2500 | 2475                  | 2435    |
| 28                                                                                | 5145 | 5145                                                                                                 | 5155    | 3895 | 3380                | 2905    | 3155 | 3155                  | 2895    | 2500 | 2435                  | 2425    |
| 30                                                                                | 4800 | 4800                                                                                                 | 4820    | 3830 | 3275                | 2855    | 3155 | 3155                  | 2855    | 2480 | 2400                  | 2395    |
| 32                                                                                | 4475 | 4475                                                                                                 | 4510    | 3690 | 3180                | 2815    | 3155 | 3155                  | 2815    | 2430 | 2360                  | 2360    |
| 34                                                                                | 4135 | 4135                                                                                                 | 4220    | 3550 | 3095                | 2780    | 3155 | 3060                  | 2780    | 2380 | 2325                  | 2325    |
| 36                                                                                | 3825 | 3825                                                                                                 | 3905    | 3420 | 3020                | 2750    | 3020 | 2935                  | 2745    | 2330 | 2290                  | 2290    |
| 38                                                                                | 3545 | 3545                                                                                                 | 3615    | 3300 | 2950                | 2725    | 2895 | 2820                  | 2725    | 2280 | 2255                  | 2255    |
| 40                                                                                | 3235 | 3235                                                                                                 | 3310    | 3175 | 2885                | 2715    | 2770 | 2710                  | 2705    | 2230 | 2210                  | 2210    |
| 42                                                                                | 2885 | 2885                                                                                                 |         | 2990 | 2830                | 2705    | 2655 | 2610                  | 2610    | 2180 | 2170                  | 2170    |
| 44                                                                                | 2575 | 2575                                                                                                 |         | 2810 | 2785                | 2705    | 2495 | 2495                  | 2515    | 2095 | 2080                  | 2080    |
| 46                                                                                | 2295 | 2295                                                                                                 |         | 2530 | 2530                | 2660    | 2345 | 2345                  | 2420    | 2005 | 1995                  | 1995    |
| 48                                                                                | 2045 | 2045                                                                                                 |         | 2270 | 2270                |         | 2195 | 2195                  | 2270    | 1915 | 1910                  | 1910    |
| 50                                                                                | 1815 |                                                                                                      |         | 2030 | 2030                |         | 1955 | 1955                  | 2075    | 1835 | 1835                  | 1835    |
| 52                                                                                |      |                                                                                                      |         | 1810 | 1810                |         | 1735 | 1735                  |         | 1705 | 1705                  | 1765    |
| 54                                                                                |      |                                                                                                      |         | 1610 | 1610                |         | 1530 | 1530                  |         | 1500 | 1500                  | 1610    |
| 56                                                                                |      |                                                                                                      |         | 1420 |                     |         | 1335 | 1345                  |         | 1300 | 1310                  |         |
| 58                                                                                |      |                                                                                                      |         |      |                     |         | 1140 | 1175                  |         | 1110 | 1135                  |         |
| 60                                                                                |      |                                                                                                      |         |      |                     |         | 960  |                       |         | 930  | 975                   |         |
| 62                                                                                |      |                                                                                                      |         |      |                     |         | 790  |                       |         | 760  | 830                   |         |
| 64                                                                                |      |                                                                                                      |         |      |                     |         |      |                       |         | 605  | 690                   |         |

 43,4 m  
Fixed lengths
  10 m - 17 m  
21,9 m - 26,8 m  
Hydraulic luffing  
swingaway/loads luffing
  22 000 kg
  100%  
7,3 m
  360°

|  |           |  Pounds (thousands) |           |         |             |         |             |         |  |
|-------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------------------|-----------|---------|-------------|---------|-------------|---------|--|
| Meters                                                                              | 43.4 + 10 |                                                                                                        | 43.4 + 17 |         | 43.4 + 21.9 |         | 43.4 + 26.8 |         |  |
|                                                                                     | 5°-20°    | 20°-40°                                                                                                | 5°-20°    | 20°-40° | 5°-20°      | 20°-40° | 5°-20°      | 20°-40° |  |
| 14                                                                                  | 6275      |                                                                                                        |           |         |             |         |             |         |  |
| 15                                                                                  | 6275      | 5540                                                                                                   |           |         |             |         |             |         |  |
| 16                                                                                  | 6275      | 5540                                                                                                   |           |         |             |         |             |         |  |
| 18                                                                                  | 6275      | 5450                                                                                                   | 3565      |         | 3155        |         |             |         |  |
| 20                                                                                  | 6035      | 5315                                                                                                   | 3380      |         | 3155        |         | 2500        |         |  |
| 22                                                                                  | 5765      | 5195                                                                                                   | 3215      |         | 3050        |         | 2500        |         |  |
| 24                                                                                  | 5530      | 5090                                                                                                   | 3065      | 2680    | 2930        | 2450    | 2500        |         |  |
| 26                                                                                  | 5320      | 4990                                                                                                   | 2925      | 2610    | 2820        | 2400    | 2475        | 2215    |  |
| 28                                                                                  | 5130      | 4910                                                                                                   | 2805      | 2550    | 2715        | 2355    | 2435        | 2175    |  |
| 30                                                                                  | 4800      | 4820                                                                                                   | 2690      | 2490    | 2620        | 2310    | 2400        | 2140    |  |
| 32                                                                                  | 4475      | 4510                                                                                                   | 2590      | 2440    | 2535        | 2270    | 2360        | 2110    |  |
| 34                                                                                  | 4135      | 4220                                                                                                   | 2495      | 2395    | 2455        | 2230    | 2325        | 2075    |  |
| 36                                                                                  | 3825      | 3905                                                                                                   | 2410      | 2355    | 2380        | 2200    | 2290        | 2050    |  |
| 38                                                                                  | 3545      | 3615                                                                                                   | 2330      | 2320    | 2310        | 2165    | 2255        | 2020    |  |
| 40                                                                                  | 3235      | 3310                                                                                                   | 2260      | 2260    | 2245        | 2140    | 2210        | 1995    |  |
| 42                                                                                  | 2885      |                                                                                                        | 2190      | 2190    | 2185        | 2120    | 2155        | 1975    |  |
| 44                                                                                  | 2575      |                                                                                                        | 2110      | 2135    | 2130        | 2100    | 2080        | 1955    |  |
| 46                                                                                  | 2295      |                                                                                                        | 2020      | 2080    | 2050        | 2080    | 1995        | 1940    |  |
| 48                                                                                  | 2045      |                                                                                                        | 1940      |         | 1970        | 2035    | 1910        | 1910    |  |
| 50                                                                                  |           |                                                                                                        | 1870      |         | 1900        | 1995    | 1835        | 1835    |  |
| 52                                                                                  |           |                                                                                                        | 1800      |         | 1735        |         | 1705        | 1765    |  |
| 54                                                                                  |           |                                                                                                        | 1610      |         | 1530        |         | 1500        | 1610    |  |
| 56                                                                                  |           |                                                                                                        |           |         | 1345        |         | 1310        |         |  |
| 58                                                                                  |           |                                                                                                        |           |         | 1175        |         | 1135        |         |  |
| 60                                                                                  |           |                                                                                                        |           |         |             |         | 975         |         |  |
| 62                                                                                  |           |                                                                                                        |           |         |             |         | 830         |         |  |
| 64                                                                                  |           |                                                                                                        |           |         |             |         | 690         |         |  |

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

## Main boom, hydraulic extension and inserts (metric)

 43,4 m  
Fixed lengths
  10 m - 17 m  
21,9 m - 26,8 m  
Hydraulic luffing  
swingaway/stationary
  20 000 kg
  100%  
7,3 m
  360°

|  |  | 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 43,4 m  
Fixed lengths
  10 m - 17 m  
21,9 m - 26,8 m  
Hydraulic luffing  
swingaway/loads luffing
  20 000 kg
  100%  
7,3 m
  360°

|  |  Pounds (thousands) |         |           |         |             |         |             |         |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------|-----------|---------|-------------|---------|-------------|---------|
| Meters                                                                              | 43.4 + 10                                                                                              |         | 43.4 + 17 |         | 43.4 + 21.9 |         | 43.4 + 26.8 |         |
|                                                                                     | 5°-20°                                                                                                 | 20°-40° | 5°-20°    | 20°-40° | 5°-20°      | 20°-40° | 5°-20°      | 20°-40° |
| 14                                                                                  | 6275                                                                                                   |         |           |         |             |         |             |         |
| 15                                                                                  | 6275                                                                                                   | 5540    |           |         |             |         |             |         |
| 16                                                                                  | 6275                                                                                                   | 5540    |           |         |             |         |             |         |
| 18                                                                                  | 6275                                                                                                   | 5450    | 3565      |         | 3155        |         |             |         |
| 20                                                                                  | 6035                                                                                                   | 5315    | 3380      |         | 3155        |         | 2500        |         |
| 22                                                                                  | 5765                                                                                                   | 5195    | 3215      |         | 3050        |         | 2500        |         |
| 24                                                                                  | 5530                                                                                                   | 5090    | 3065      | 2680    | 2930        | 2450    | 2500        |         |
| 26                                                                                  | 5320                                                                                                   | 4990    | 2925      | 2610    | 2820        | 2400    | 2475        | 2215    |
| 28                                                                                  | 5130                                                                                                   | 4910    | 2805      | 2550    | 2715        | 2355    | 2435        | 2175    |
| 30                                                                                  | 4800                                                                                                   | 4820    | 2690      | 2490    | 2620        | 2310    | 2400        | 2140    |
| 32                                                                                  | 4475                                                                                                   | 4510    | 2590      | 2440    | 2535        | 2270    | 2360        | 2110    |
| 34                                                                                  | 4135                                                                                                   | 4220    | 2495      | 2395    | 2455        | 2230    | 2325        | 2075    |
| 36                                                                                  | 3700                                                                                                   | 3810    | 2410      | 2355    | 2380        | 2200    | 2290        | 2050    |
| 38                                                                                  | 3285                                                                                                   | 3380    | 2330      | 2320    | 2310        | 2165    | 2255        | 2020    |
| 40                                                                                  | 2915                                                                                                   | 2995    | 2260      | 2260    | 2245        | 2140    | 2210        | 1995    |
| 42                                                                                  | 2585                                                                                                   |         | 2190      | 2190    | 2185        | 2120    | 2155        | 1975    |
| 44                                                                                  | 2290                                                                                                   |         | 2110      | 2135    | 2130        | 2100    | 2080        | 1955    |
| 46                                                                                  | 2025                                                                                                   |         | 2020      | 2080    | 2050        | 2080    | 1995        | 1940    |
| 48                                                                                  | 1785                                                                                                   |         | 1940      |         | 1935        | 2035    | 1910        | 1910    |
| 50                                                                                  |                                                                                                        |         | 1780      |         | 1705        | 1825    | 1675        | 1820    |
| 52                                                                                  |                                                                                                        |         | 1575      |         | 1495        |         | 1465        | 1590    |
| 54                                                                                  |                                                                                                        |         | 1380      |         | 1305        |         | 1270        | 1380    |
| 56                                                                                  |                                                                                                        |         |           |         | 1125        |         | 1090        |         |
| 58                                                                                  |                                                                                                        |         |           |         | 960         |         | 925         |         |
| 60                                                                                  |                                                                                                        |         |           |         |             |         | 770         |         |
| 62                                                                                  |                                                                                                        |         |           |         |             |         | 630         |         |
| 64                                                                                  |                                                                                                        |         |           |         |             |         | 500         |         |

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

# Load chart

## Main boom, hydraulic extension and inserts (metric)

|                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |  |  |  |
| 43,4 m<br>Fixed lengths                                                           | 10 m - 17 m<br>21,9 m - 26,8 m<br>Hydraulic luffing<br>swingaway/stationary       | 11 800 kg                                                                         | 100%<br>7,3 m                                                                     | 360°                                                                              |

| Pounds (thousands) |           |        |         |           |        |         |             |        |         |             |        |         |
|--------------------|-----------|--------|---------|-----------|--------|---------|-------------|--------|---------|-------------|--------|---------|
| Meters             | 43,4 + 10 |        |         | 43,4 + 17 |        |         | 43,4 + 21,9 |        |         | 43,4 + 26,8 |        |         |
|                    | 5°        | 5°-20° | 20°-40° | 5°        | 5°-20° | 20°-40° | 5°          | 5°-20° | 20°-40° | 5°          | 5°-20° | 20°-40° |
| 11                 | 6275      |        |         |           |        |         |             |        |         |             |        |         |
| 12                 | 6275      |        |         | 3895      |        |         |             |        |         |             |        |         |
| 13                 | 6275      |        |         | 3895      |        |         |             |        |         |             |        |         |
| 14                 | 6275      | 6275   |         | 3895      |        |         | 3155        |        |         |             |        |         |
| 15                 | 6275      | 6275   | 5540    | 3895      |        |         | 3155        |        |         | 2500        |        |         |
| 16                 | 6275      | 6275   | 5540    | 3895      |        |         | 3155        |        |         | 2500        |        |         |
| 18                 | 6275      | 6275   | 5540    | 3895      | 3895   |         | 3155        | 3155   |         | 2500        |        |         |
| 20                 | 6275      | 6275   | 5540    | 3895      | 3895   |         | 3155        | 3155   |         | 2500        | 2500   |         |
| 22                 | 6275      | 6265   | 5540    | 3895      | 3755   |         | 3155        | 3155   |         | 2500        | 2500   |         |
| 24                 | 5625      | 5625   | 5540    | 3895      | 3625   | 3025    | 3155        | 3155   | 2895    | 2500        | 2500   |         |
| 26                 | 4810      | 4810   | 5030    | 3895      | 3495   | 2960    | 3155        | 3155   | 2895    | 2500        | 2475   | 2435    |
| 28                 | 4120      | 4120   | 4315    | 3895      | 3380   | 2905    | 3155        | 3155   | 2895    | 2500        | 2435   | 2425    |
| 30                 | 3540      | 3540   | 3705    | 3830      | 3275   | 2855    | 3155        | 3155   | 2855    | 2480        | 2400   | 2395    |
| 32                 | 3035      | 3035   | 3185    | 3345      | 3180   | 2815    | 3155        | 3155   | 2815    | 2430        | 2360   | 2360    |
| 34                 | 2600      | 2600   | 2730    | 2900      | 2900   | 2780    | 2850        | 2850   | 2780    | 2380        | 2325   | 2325    |
| 36                 | 2220      | 2220   | 2335    | 2510      | 2510   | 2750    | 2455        | 2455   | 2725    | 2330        | 2290   | 2290    |
| 38                 | 1885      | 1885   | 1985    | 2165      | 2165   | 2380    | 2110        | 2110   | 2350    | 2095        | 2095   | 2255    |
| 40                 | 1590      | 1590   | 1670    | 1855      | 1855   | 2050    | 1800        | 1800   | 2020    | 1785        | 1785   | 2020    |
| 42                 | 1325      | 1325   |         | 1585      | 1585   | 1755    | 1520        | 1520   | 1720    | 1505        | 1505   | 1720    |
| 44                 | 1085      | 1085   |         | 1335      | 1335   | 1490    | 1275        | 1275   | 1450    | 1255        | 1255   | 1450    |
| 46                 | 875       | 875    |         | 1115      | 1115   | 1245    | 1050        | 1050   | 1205    | 1025        | 1025   | 1205    |
| 48                 | 680       | 680    |         | 915       | 915    |         | 845         | 845    | 985     | 820         | 820    | 980     |
| 50                 | 510       |        |         | 730       | 730    |         | 660         | 660    | 780     | 635         | 635    | 775     |
| 52                 |           |        |         | 560       | 560    |         |             |        |         |             |        | 590     |

|                                                                                     |                                                                                     |                                                                                     |                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 43,3 m<br>Fixed lengths                                                             | 10 m - 17 m<br>21,9 m - 26,8 m<br>Hydraulic luffing<br>swingaway/loads luffing      | 11 800 kg                                                                           | 100%<br>24 ft 0 in                                                                  | 360°                                                                                |

| Pounds (thousands) |           |         |           |         |             |         |             |         |
|--------------------|-----------|---------|-----------|---------|-------------|---------|-------------|---------|
| Meters             | 43.4 + 10 |         | 43.4 + 17 |         | 43.4 + 21.9 |         | 43.4 + 26.8 |         |
|                    | 5°-20°    | 20°-40° | 5°-20°    | 20°-40° | 5°-20°      | 20°-40° | 5°-20°      | 20°-40° |
| 14                 | 6275      |         |           |         |             |         |             |         |
| 15                 | 6275      | 5540    |           |         |             |         |             |         |
| 16                 | 6275      | 5540    |           |         |             |         |             |         |
| 18                 | 6275      | 5450    | 3565      |         | 3155        |         |             |         |
| 20                 | 6035      | 5315    | 3380      |         | 3155        |         | 2500        |         |
| 22                 | 5765      | 5195    | 3215      |         | 3050        |         | 2500        |         |
| 24                 | 5530      | 5090    | 3065      | 2680    | 2930        | 2450    | 2500        |         |
| 26                 | 4810      | 4990    | 2925      | 2610    | 2820        | 2400    | 2475        | 2215    |
| 28                 | 4120      | 4315    | 2805      | 2550    | 2715        | 2355    | 2435        | 2175    |
| 30                 | 3540      | 3705    | 2690      | 2490    | 2620        | 2310    | 2400        | 2140    |
| 32                 | 3035      | 3185    | 2590      | 2440    | 2535        | 2270    | 2360        | 2110    |
| 34                 | 2600      | 2730    | 2495      | 2395    | 2455        | 2230    | 2325        | 2075    |
| 36                 | 2220      | 2335    | 2410      | 2355    | 2380        | 2200    | 2290        | 2050    |
| 38                 | 1885      | 1985    | 2165      | 2320    | 2110        | 2165    | 2095        | 2020    |
| 40                 | 1590      | 1670    | 1855      | 2050    | 1800        | 2020    | 1785        | 1995    |
| 42                 | 1325      |         | 1585      | 1755    | 1520        | 1720    | 1505        | 1720    |
| 44                 | 1085      |         | 1335      | 1490    | 1275        | 1450    | 1255        | 1450    |
| 46                 | 875       |         | 1115      | 1245    | 1050        | 1205    | 1025        | 1205    |
| 48                 | 680       |         | 915       |         | 845         | 985     | 820         | 980     |
| 50                 |           |         | 730       |         | 660         | 780     | 635         | 775     |
| 52                 |           |         | 560       |         |             |         |             | 590     |

# Symbols glossary

|                                                                                     |                |                                                                                     |                    |                                                                                     |                    |                                                                                       |              |
|-------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|--------------|
|    | Axles          |    | Counterweight      |    | Grade              |    | Outriggers   |
|    | Boom           |    | Drive              |    | Height (no max)    |    | Radius       |
|    | Boom elevation |    | Electrical system  |    | Heavy duty jib     |    | Rotation     |
|    | Boom extension |    | Engine             |    | Hoist              |    | Speed        |
|    | Boom length    |    | Extension          |    | Hookblock          |    | Steering     |
|   | Boom nose      |   | Frame              |   | Hydraulic system   |   | Suspension   |
|  | Brakes         |  | Fuel tank capacity |  | Lights             |  | Swing        |
|  | Cab            |  | Gear               |  | Oil                |  | Tires        |
|                                                                                     |                |                                                                                     |                    |  | Outrigger controls |  | Transmission |

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##### Germany

Langenfeld

##### Hungary

Budapest

##### Italy

Lainate

##### Netherlands

Breda

##### Poland

Warsaw

##### Portugal

Baltar

##### Russia

Moscow

##### South Africa

Johannesburg

##### U.A.E.

Dubai

##### U.K.

Buckingham

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Chengdu

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Xian

#### Greater Asia-Pacific

##### Australia

Brisbane

Melbourne

Sydney

##### India

Chennai

Delhi

Hyderabad

Pune

##### Korea

Seoul

##### Philippines

Makati City

##### Singapore

### Factories

#### Brazil

Passo Fundo

#### China

TaiAn

Zhangjiagang

#### France

Charlieu

Moulins

#### Germany

Wilhelmshaven

#### India

Pune

#### Italy

Niella Tanaro

#### Portugal

Baltar

Fânzeres

#### Slovakia

Saris

#### USA

Maniowoc

Port Washington

Shady Grove

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