

# Grove RT770E

## Product Guide



### Features

- 65 t (70 USt) capacity
- 11 m – 42 m (36 ft – 138 ft) five-section full power boom
- 10,1 m - 17,1 m (33 ft - 56 ft) offsettable bi-fold lattice swingaway extension
- 6,1 m (20 ft) extension insert
- 6516 kg (14,365 lb) counterweight pinned to superstructure

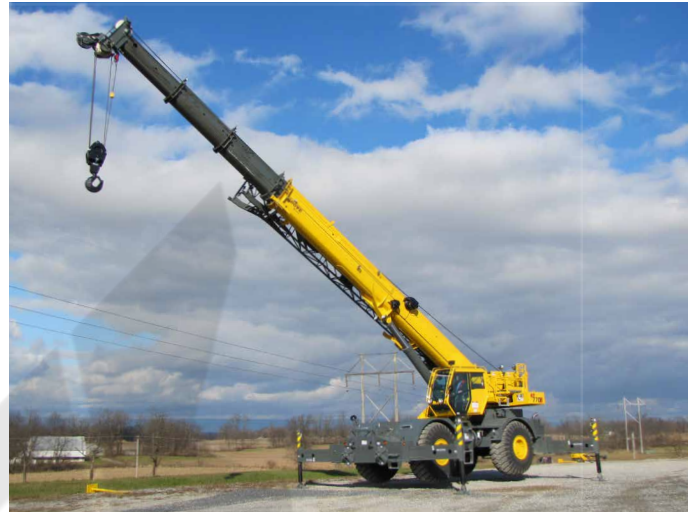


# Features



## Extensions

An optional bi-fold swingaway lattice extension easily stows on the side of the base boom for easy transport while providing on-board extension from 10,1 m - 17,1 m (33 ft - 56 ft) for a maximum tip height of 61,6 m (202 ft). By adding the 6,1 m (20 ft) insert, the maximum tip height can be extended to 67,3 m (221 ft).



## MEGAFORM™ boom

The superstructure features a full-power five-section MEGAFORM™ boom that can reach to a maximum tip height of 44,6 m (146 ft). The sequence synchronized extension features telescopic boom sections via a single lever joystick controller.

# 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.

## Smooth operation

The RT770E has a quick-reeve boom nose and swingaway alignment device to help operators set up smoothly.



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# Specifications

## Superstructure



### Boom

11 m - 42 m (36 ft - 138 ft) five-section, sequence synchronized, full-power boom with A&B mode.

Maximum tip height: 44,5 m (146 ft)



### \*Optional fixed swingaway extension

10,1 m (33 ft) offsettable lattice swingaway extension. Offsettable at 0°, 25° and 45°. Stows alongside base boom section.

Maximum tip height: 54,0 m (177 ft)



### \*Optional bi-fold swingaway extension

10,1 m - 17,1 m (33 ft - 56 ft) bi-fold lattice swingaway extension. Offsettable at 0°, 25° and 45°. Stows alongside base boom section.

Maximum tip height: 61,6 m (202 ft)



### \*Optional 6,1 m (20 ft) insert

Installs between boom nose and bi-fold extension, non-stowable.

Maximum tip height: 67,3 m (221 ft)



### Boom nose

Four nylatron sheaves mounted on heavy-duty tapered roller bearings with removable pin-type rope guards. Quick-reeve type boom nose.

\*Optional removable auxiliary boom nose with removable pin type rope guard.



### Boom elevation

One double-acting hydraulic cylinder with integral holding valve provides elevation from -3° to 78°.



### Load moment and anti-two block system

Standard "Graphic Display" load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition. The standard Work Area Definition System allows the operator to pre-select and define safe working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding job-site obstructions.



## Cab

Full-vision, all-steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest-mounted hydraulic single-axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include: hot water heater, air-conditioning, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe, fire extinguisher and seat belt.



## Swing

Planetary swing with foot-applied multi-disc brake. Spring applied, hydraulically-released swing brake and plunger-type, one position, mechanical house lock operated from cab. \*Optional 360° mechanical swing lock. Maximum speed: 2.5 rpm.



## Counterweight

6516 kg (14,365 lb) pinned to superstructure.



## Hydraulic system

Three main gear pumps with a combined capacity of 465 LPM (123 GPM).

Maximum operating pressure: 27,6 MPa (4000 psi). Two individual post pressure compensated valve banks.

Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16. 640 L (169 gal) reservoir. Integral oil cooler. System pressure test ports.



## Hoist specifications (GHP30A) main and auxiliary hoist

Main and auxiliary hoist: Model GHP30A

Planetary reduction with automatic spring applied multi-disc brake. Grooved drum. Electronic hoist drum rotation indicator and hoist drum cable followers.

Maximum hoist single line pull: 8363 kg (18,436 lb)

Maximum single line speed: 153 m/min (502 fpm)

Maximum permissible line pull:

7620 kg (16,800 lb) with 35 x 7 class rope

# Specifications

## Superstructure continued

Rope diameter: 19 mm (3/4 in)

Main Hoist Rope length: 198 m (650 ft)

Auxiliary Hoist Rope Length: 152,4 m (500 ft)

Rope type: 35 x 7 class rotation resistant

Maximum rope stowage: 212 m (695 ft).

## Carrier



### Chassis

Box section frame fabricated from high-strength, low alloy steel. Integral outrigger housings and front/rear towing, lifting, and tie down lugs.



### Outrigger system

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position settings, 100%, 50% and fully retracted. All steel fabricated, quick-release type round outrigger floats, 610 mm (24 in) diameter. Outrigger Monitoring System comes standard (required for North America and Canada).

Maximum outrigger pad load: 41 731 kg (92,000 lb)



### Outrigger controls

Controls and crane level indicator located in cab.



### Fuel tank capacity

280 L (74 gal)



### Transmission

Powershift with 6 forward and 6 reverse speeds (3 speeds high and 3 speeds low). Front axle disconnect for 4 x 2 travel.



### Electrical system

Three 12-volt maintenance free batteries. 12-volt starting and lighting, circuit breakers, battery disconnect switch.

## I-O-I Drive

4 x 4



### Steering

Fully independent power steering:

Front: Full hydraulic, steering wheel controlled.

Rear: Full hydraulic, switch controlled.

Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated.

Rear steer centered indicating light.

4 wheel turning radius - 7,1 m (23 ft 4 in).



### Engine (Tier IV)

Cummins QSB 6.7 L diesel, six cylinders, turbocharged with Cummins Diesel Particulate Exhaust filter/muffler. Meets emissions per U.S.E.P.A. Tier IV and E.U. Stage III B. 179 kW (240 bhp) at 2500 rpm. Maximum torque: 987 N-m (728 ft lb) at 1500 rpm.

Fuel requirement: Maximum of 15 ppm sulphur content (Ultra Low Diesel Fuel).

**Note:** Tier IV engine Required in North American and European Union countries.



### Engine (Tier III)

Cummins QSB 6.7 L diesel, six cylinders, turbocharged, 179 kW (240 bhp) (Gross) at 2500 rpm. Maximum torque: 987 N-m (728 ft lb) at 1500 rpm.

**Note:** Required for sale outside of North American and European Union countries



### Axles

**Front:** Drive/steer with differential and planetary reduction hubs rigid-mounted to frame.

**Rear:** Drive/steer with differential and planetary reduction hubs pivot-mounted to frame.

Automatic full hydraulic lockouts on rear axle permit 203 mm (8 in) oscillation only with boom centered over the front.

# Specifications

## Carrier continued

### Brakes

Full hydraulic split circuit brakes operating on all wheels. Spring-applied, hydraulically released axle-mounted parking brake.

### Tires

29.5 x 25 - 28PR bias earthmover type.

### Lights

Full lighting package including turn indicators, head, tail, brake and hazard warning lights.

### Maximum speed

37 km/h (23 mph) (no load).

### Gradeability (theoretical)

75% (based on 43 830 kg [96,628 lb] GVW). 29.5 x 25 tires, pumps engaged, 42 m (138 ft) boom, bi-fold extension, aux. hoist and cable, and 65 USt hookblock.

### Miscellaneous standard equipment

Full width steel fenders, full length steel decking, dual rear view mirrors, hook block tiedown, electronic back-up alarm, light package, front stowage well, tachometer, rear wheel position indicator, 36,000 BTU hot water heater, air conditioning package with 28,500 BTU hydraulic driven air conditioning, hoist mirrors, engine distress A/V warning system. Auxiliary hoist control valve arrangement (less hoist). Cold start aid and immersion type engine block heater, 120V 750 watt. Hoist access platform. Crane Star asset management system

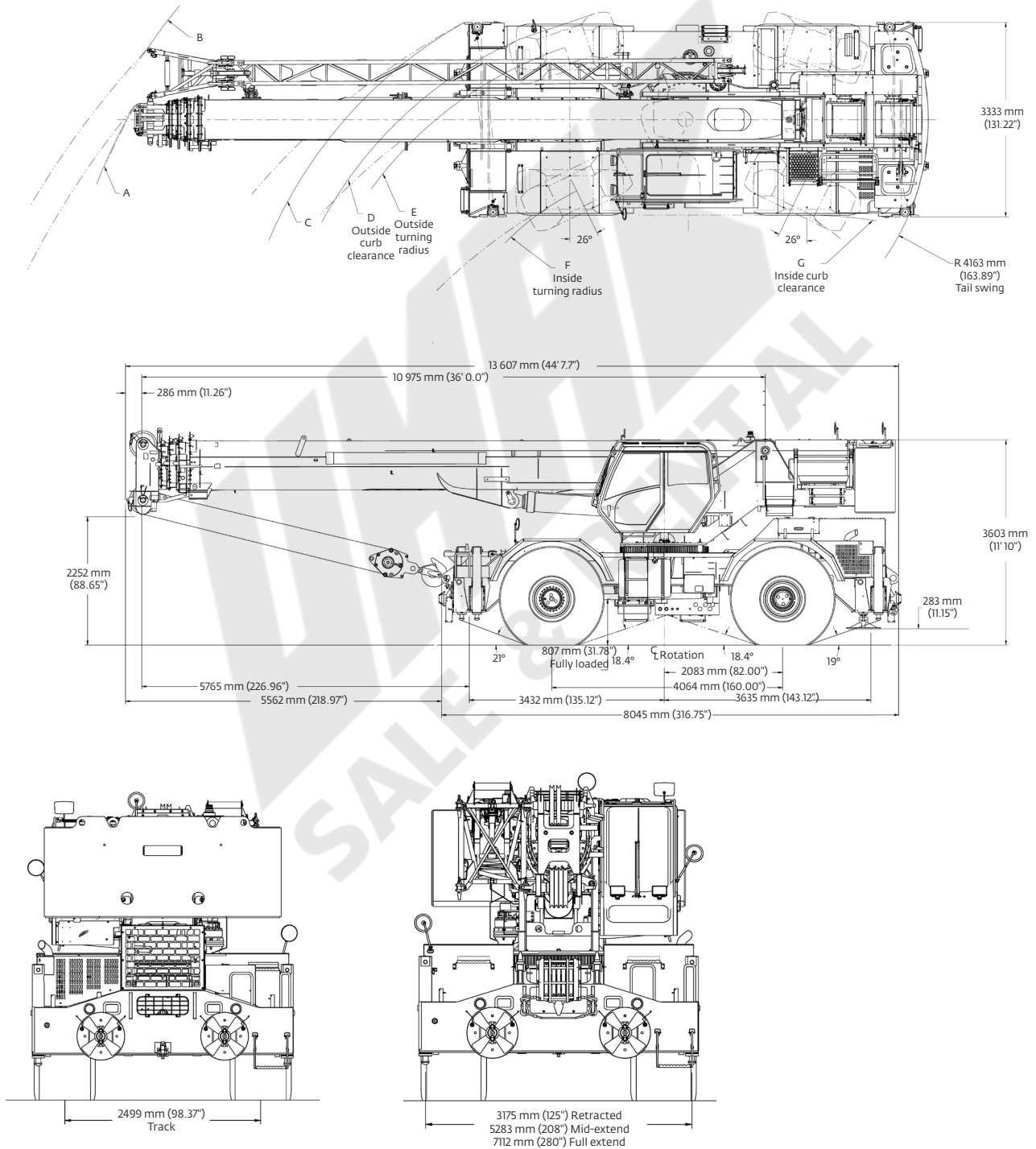
### \*Optional equipment

- ▶ Auxiliary Hoist Package (includes Model GHP30A auxiliary hoist with electronic hoist drum rotation indicator, hoist drum cable follower, 152,4 m (500 ft) of 19 mm (3/4 in) 35 X 7 class wire rope, auxiliary single sheave boom nose.
- ▶ Auxiliary Light and Convenience Package: includes superstructure mounted amber flashing light, in-cab LMI light bar, and dual base boom mounted floodlights, rubber mat for stowage trough
- ▶ "CE" Mark Conformance (sound abatement foam kits, 3rd wrap indicator, emergency auxiliary steering, dual axis joystick controllers)
- ▶ Cross axle differential locks (front and rear)
- ▶ Manual pump disconnect
- ▶ Pintle hook - rear
- ▶ 360° NYC style positive swinglock
- ▶ PAT event recorder
- ▶ Hydraulic removable counterweight

# Dimensions and weights

Dimensions														
	A	B	C	D	E	F	G	A	B	C	D	E	F	G
Tire Size 29.5 x 25	14 961 (589)	15 494 (610)	12 460 (491)	11 732 (462)	11 342 (446)	9004 (355)	7662 (302)	10 922 (430)	11 153 (439)	7830 (308)	7099 (280)	6744 (266)	4368 (172)	3496 (138)
	Two-wheel steer							Four-wheel steer						

Dimensions are shown in mm (in).



# Weights

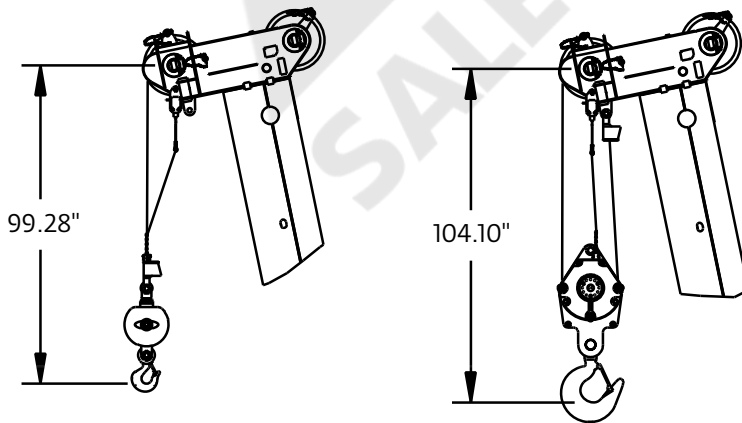
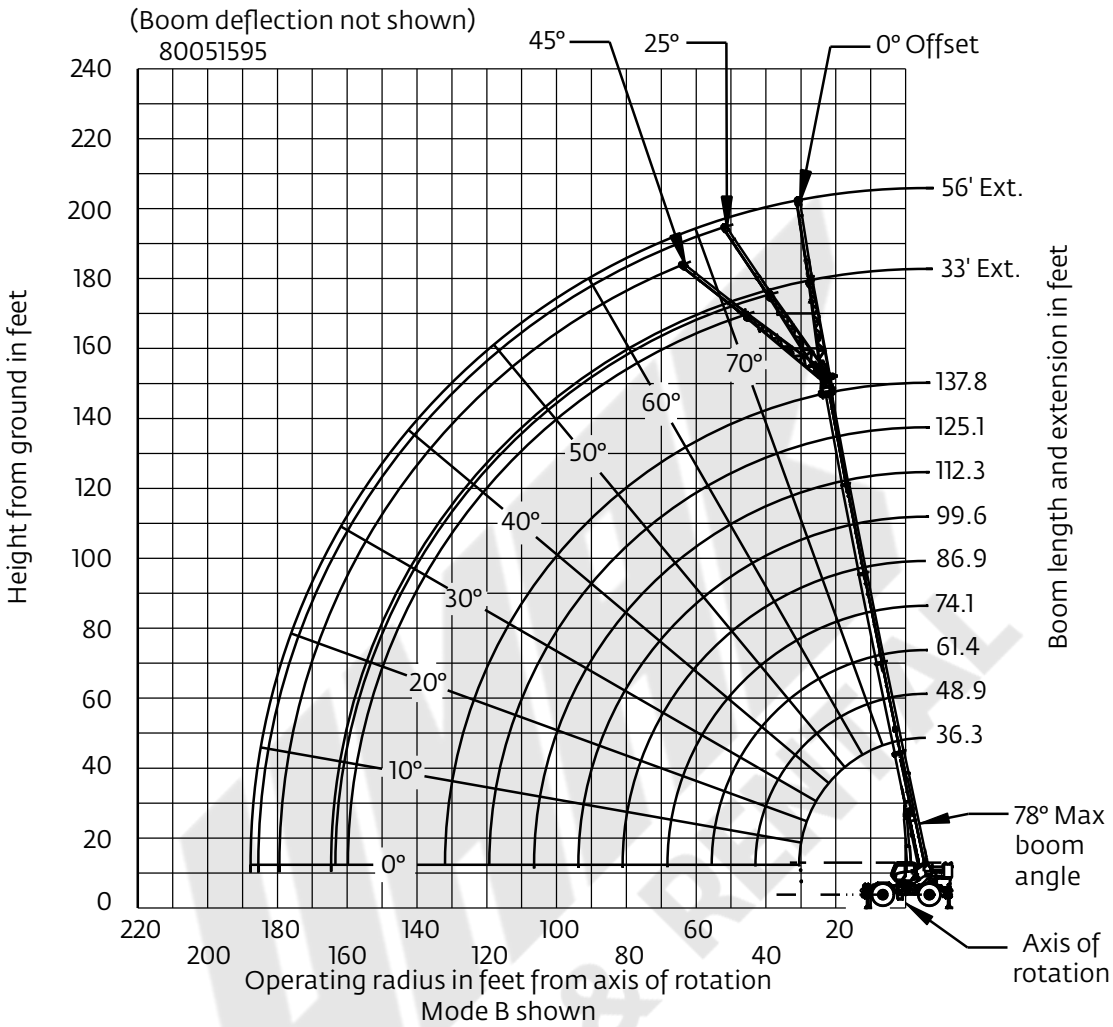
Weights						
	GVW		Front		Rear	
	kg	lb	kg	lb	kg	lb
<b>Basic Machine:</b> Including 42,0 m (138 ft) main boom, main hoist with 198 m (650 ft) of wire rope, auxiliary hoist with 198 m (650 ft) of wire rope, full pinned counterweight, full decking, A/C, and hoist access platform, Tier IV engine.	41 794	92,139	20 024	44,145	21 770	47,994
<b>Add:</b> 33 ft -56 ft bi-fold swingaway + extension carrier brackets + aux. boom nose	1295	2854	2175	4796	-880	-1942
<b>crane weight</b>	43 089	94,993	22 220	48,941	20 889	46,052
<b>Add:</b> 60 t (65 USt) 5-sheave hook block stowed in trough	581	1280	581	1280	0	0
<b>crane weight</b>	43 669	96,273	22 780	50,221	20 889	46,052
<b>Add:</b> 7,5 t (8.3USt) headache ball tied to O/R cable	161	355	262	578	-101	-223
<b>crane weight</b>	43 830	96,628	23 042	50,799	20 788	45,829

WMAH  
 SALE & RENTAL



# Working range (Mode B)

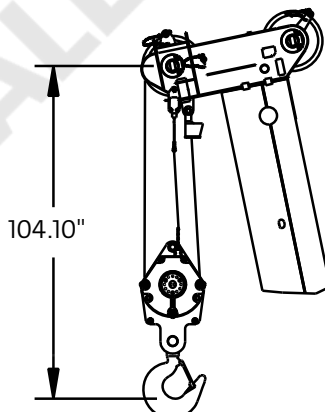
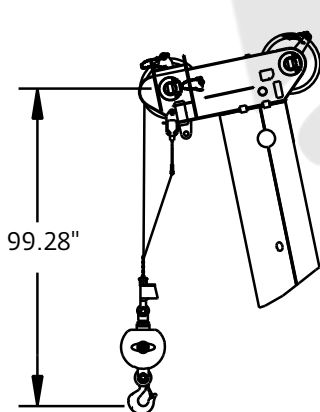
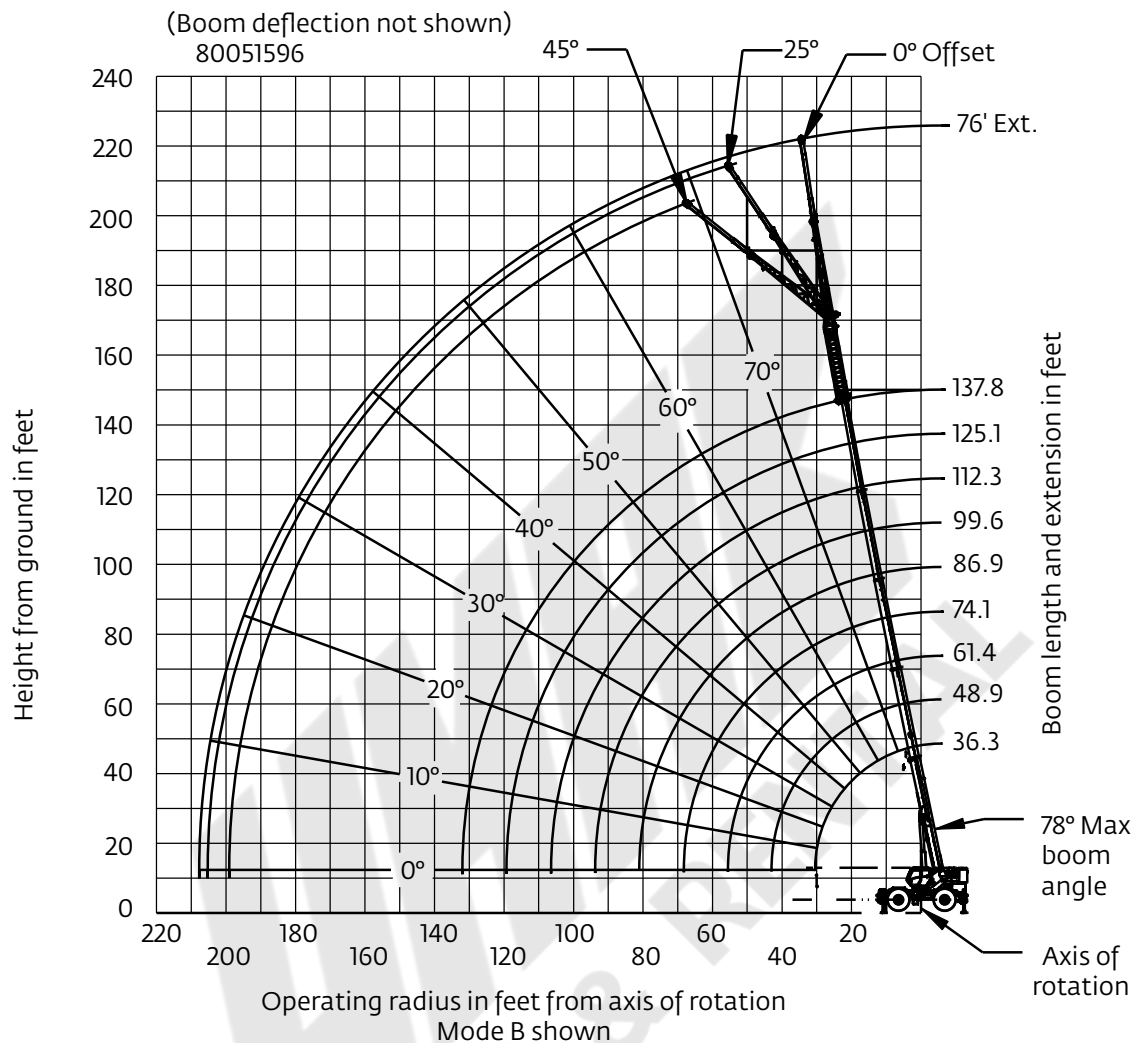
42 m (138 ft) main boom and 10,1 m - 17,1 m (33 ft - 56 ft) bi-fold swingaway



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


# Working range (Mode B)


42 m (138 ft) main boom, 10,1 m - 17,1 m (33 ft - 56 ft) bi-fold swingaway and 6,1 m (20 ft) extension insert





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

# Load chart


**11 m - 42 m**  
**(36 ft - 138 ft)**


**6516 kg**  
**(14,365 lb)**


**23 ft 4 in**  
**100%**


**360°**

Radius in feet	Main boom length in feet - LMI code #0001															
	36.3	48.9	49.1	61.4	61.8	74.1	74.5	86.9	87.3	99.6	100.0	112.3	112.7	125.1	125.3	137.8
Tele 1	0%	50%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%
Tele 2	0%	0%	17%	0%	33%	17%	50%	33%	67%	50%	83%	67%	100%	83%	100%	100%
Tele 3	0%	0%	17%	0%	33%	17%	50%	33%	67%	50%	83%	67%	100%	83%	100%	100%
Tele 4	0%	0%	17%	0%	33%	17%	50%	33%	67%	50%	83%	67%	100%	83%	100%	100%
Mode	A, B	B	A	B	A	B	A	B	A	B	A	B	A	B	A	A, B
9	140,000 (71)															
10	130,000 (69.5)	91,650 (75.5)	50,000 (75)		*49,900 (78)											
12	112,500 (66)	91,650 (73)	50,000 (73)	72,350 (78)	49,900 (76.5)											
15	93,250 (60.5)	91,100 (69)	50,000 (69)	72,350 (73.5)	49,900 (74)	*50,000 (78)	41,650 (78)									
20	71,550 (50)	69,500 (62.5)	50,000 (62.5)	66,300 (69)	49,900 (68.5)	50,000 (73)	41,650 (73)	49,850 (78)	29,750 (75.5)	*39,250 (78)	*25,800 (78)					
25	56,650 (37.5)	54,900 (55.5)	50,000 (55.5)	54,350 (63.5)	49,750 (63.5)	50,000 (69)	41,650 (68.5)	44,250 (72.5)	29,750 (72.5)	39,250 (75.5)	25,800 (75)	*29,550 (78)	*21,900 (78)	*22,600 (78)		
30	43,700 (16)	42,650 (47.5)	45,550 (47.5)	41,900 (58)	44,950 (58)	43,300 (64.5)	36,550 (64.5)	38,100 (69)	28,050 (68.5)	34,400 (72.5)	24,850 (72)	29,550 (75)	21,900 (74.5)	22,600 (77)	*21,750 (78)	*18,600 (78)
35		33,700 (38)	36,600 (38)	32,250 (52)	37,800 (52)	33,700 (60)	32,450 (60)	33,150 (65.5)	24,950 (65)	30,050 (69)	22,150 (69)	27,600 (72.5)	19,950 (71.5)	22,600 (74.5)	20,900 (74)	18,600 (78)
40		26,050 (25)	28,700 (25.5)	24,950 (45.5)	29,750 (46)	26,250 (55.5)	29,150 (55.5)	27,200 (61.5)	22,450 (61.5)	26,450 (66)	19,900 (65.5)	24,400 (69.5)	17,950 (69)	22,350 (72)	19,000 (71.5)	18,300 (74)
45				19,650 (38)	24,050 (38.5)	20,750 (50.5)	24,900 (50.5)	21,850 (58)	20,350 (57.5)	22,800 (63)	18,050 (62.5)	21,700 (66.5)	16,300 (66)	20,300 (69.5)	17,350 (69)	18,050 (72)
50				15,500 (28.5)	19,800 (29)	16,700 (45)	20,700 (45)	17,900 (53.5)	18,500 (53.5)	18,750 (59.5)	16,350 (59)	19,400 (64)	14,800 (63.5)	18,200 (67)	15,950 (66.5)	16,700 (69.5)
55				12,200 (12)	16,450 (14)	13,600 (38.5)	17,400 (39)	14,850 (49.5)	16,800 (49.5)	15,600 (56)	14,800 (55.5)	16,300 (61)	13,350 (60.5)	16,350 (64.5)	14,650 (64)	15,500 (67.5)
60						11,100 (31)	14,800 (31.5)	12,450 (44.5)	15,350 (45)	13,100 (52)	13,450 (52)	13,750 (57.5)	12,150 (57.5)	14,200 (62)	13,400 (61.5)	14,000 (65)
65						9070 (21)	12,650 (22)	10,500 (39)	13,550 (39.5)	11,050 (48.5)	12,300 (48.5)	11,650 (54.5)	11,050 (54.5)	12,150 (59)	12,250 (59)	12,600 (62.5)
70								8870 (33)	11,750 (33.5)	9420 (44)	11,300 (44.5)	9950 (51)	10,100 (51)	10,400 (56.5)	11,250 (56)	10,850 (60.5)
75								7450 (25.5)	10,250 (26)	8010 (39.5)	10,350 (40)	8500 (47.5)	9270 (48)	8940 (53.5)	10,000 (53.5)	9390 (58)
80								6190 (13)	8950 (14.5)	6800 (34)	9130 (34.5)	7250 (44)	8530 (44)	7690 (50.5)	8760 (50.5)	8130 (55.5)
85										5720 (28)	8050 (28.5)	6180 (39.5)	7860 (40)	6610 (47)	7690 (47)	7050 (52.5)
90										4760 (19.5)	7100 (20.5)	5240 (35)	7250 (35.5)	5670 (44)	6750 (44)	6100 (50)
95												4400 (30)	6530 (30.5)	4840 (40)	5930 (40.5)	5270 (47)
100												3640 (23.5)	5820 (24)	4110 (36)	5200 (36)	4530 (43.5)
105												2970 (13)	5160 (14.5)	3440 (31.5)	4530 (31.5)	3870 (40.5)
110														2830 (26)	3920 (26.5)	3250 (36.5)
115														2280 (19)	3370 (19)	2690 (32.5)
120																2170 (28)
125																1700 (22)
130																1270 (13.5)
Minimum boom angle (°) for indicated length (no load)																0
Maximum boom length (ft) at 0° boom angle (no load) - Mode A																137.8
Maximum boom length (ft) at 0° boom angle (no load) - Mode B																137.8

NOTE: ( ) Boom angles are in degrees.  
 \*This capacity is based on maximum boom angle  
 #LMI operating code. Refer to LMI manual for operating instructions.

Boom angle	Lifting capacities at 0° boom angle															
	36.3	48.9	49.1	61.4	61.8	74.1	74.5	86.9	87.3	99.6	100.0	112.3	112.7	125.1	125.3	137.8
0°	30,400 (30.5)	18,500 (43.1)	20,600 (43.2)	11,850 (55.6)	15,450 (56)	7890 (68.3)	11,300 (68.7)	5950 (81)	8610 (81.4)	4110 (93.8)	6390 (94.2)	2780 (106.5)	4920 (106.9)	1850 (119.2)	2920 (119.4)	1110 (132)

NOTE: ( ) Reference radii in feet.

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

# Load chart

 38.1 m (125.1 ft)
  10,1 m - 17,1 m (33 ft - 56 ft)
  6516 kg (14,365 lb)
  23 ft 4 in 100%
  360°

MODE B						
Radius in feet	33 ft LENGTH			56 ft LENGTH		
	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
30	10,850 (78)					
35	10,850 (77.5)					
40	10,850 (76)			6130 (78)		
45	10,850 (74.5)	10,500 (78)		6130 (77)		
50	10,850 (72.5)	9920 (77)	7290 (78)	6130 (75.5)		
55	10,850 (71)	9380 (75)	7090 (77)	6130 (74)		
60	10,850 (69)	8890 (73)	6930 (75)	6130 (72.5)	5200 (78)	
65	10,150 (67)	8440 (71)	6780 (73)	6130 (70.5)	5060 (77.5)	
70	9560 (65)	8030 (69)	6650 (71)	6130 (69)	4930 (75.5)	3810 (78)
75	9000 (63)	7660 (67)	6500 (69)	6130 (67.5)	4800 (74)	3720 (77.5)
80	7990 (60.5)	7310 (64.5)	6390 (67)	6020 (66)	4680 (72)	3620 (75.5)
85	6930 (58.5)	7000 (62.5)	6290 (64.5)	5670 (64)	4560 (70)	3520 (74)
90	6000 (56)	6710 (60)	6200 (62)	5360 (62.5)	4460 (68.5)	3440 (71.5)
95	5180 (53.5)	6020 (57.5)	5980 (60)	5070 (60.5)	4290 (66.5)	3400 (69.5)
100	4460 (51)	5180 (55)	5180 (57.5)	4800 (59)	4110 (64.5)	3310 (67.5)
105	3810 (48.5)	4430 (52.5)	4480 (54.5)	4460 (57)	3940 (62.5)	3270 (65)
110	3230 (46)	3760 (50)	3840 (52)	3890 (55)	3780 (60.5)	3230 (63)
115	2700 (43.5)	3150 (47)	3260 (49)	3370 (52.5)	3640 (58.5)	3190 (60.5)
120	2230 (40.5)	2600 (44)		2900 (50.5)	3500 (56)	3160 (58)
125	1790 (37.5)	2100 (41)		2470 (48)	3170 (53.5)	3140 (55.5)
130	1390 (34)	1630 (37.5)		2070 (45.5)	2690 (51)	3020 (53)
135	1030 (30)	1210 (33.5)		1710 (43)	2240 (48.5)	2520 (50)
140				1380 (40.5)	1830 (45.5)	
145				1070 (37.5)	1450 (42.5)	
150					1100 (39.5)	
Min. boom angle for indicated length (no load)	29°	32°	48°	36°	38°	49°
Max. boom length at 0° boom angle (no load) Mode B	99.6 ft			86.9 ft		

NOTE: ( ) Boom angles are in degrees. 80051695  
 #LMI operating code. Refer to LMI manual for operating instructions.  
 \*This capacity is based on maximum obtainable boom angle.







 38.2 m (125.3 ft)
  10,1 m - 17,1 m (33 ft - 56 ft)
  6516 kg (14,365 lb)
  23 ft 4 in 100%
  360°

MODE A						
Radius in feet	33 ft LENGTH			56 ft LENGTH		
	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
35	10,200 (78)					
40	10,200 (76)			5750 (78)		
45	10,200 (74.5)	8060 (78)		5750 (77)		
50	9490 (72.5)	8050 (76.5)	6950 (78)	5750 (75.5)		
55	8770 (70.5)	7520 (74.5)	6950 (77.5)	5750 (73.5)		
60	8300 (68.5)	7060 (72.5)	6660 (75.5)	5750 (72)	4820 (78)	
65	7740 (66.5)	6750 (70.5)	6320 (73.5)	5750 (70.5)	4820 (77)	
70	7250 (64.5)	6370 (68.5)	6020 (71)	5480 (68.5)	4640 (75.5)	
75	6820 (62.5)	6040 (66.5)	5740 (69)	5160 (67)	4340 (73.5)	3720 (78)
80	6440 (60.5)	5750 (64.5)	5500 (67)	4790 (65.5)	4140 (72)	3620 (76)
85	6020 (58.5)	5420 (62)	5220 (64.5)	4550 (63.5)	3890 (70)	3520 (74)
90	5710 (56)	5190 (60)	5020 (62)	4250 (62)	3720 (68)	3440 (72)
95	5370 (54)	4980 (57.5)	4800 (59.5)	3990 (60)	3520 (66)	3350 (70)
100	5130 (51.5)	4740 (55)	4640 (57)	3810 (58)	3330 (64)	3190 (68)
105	4650 (49.5)	4530 (52.5)	4460 (54)	3600 (56.5)	3210 (62)	3060 (65.5)
110	4040 (46.5)	4330 (50)	4280 (51.5)	3400 (54.5)	3050 (60)	2930 (63)
115	3490 (44)	3890 (47)	3830 (48.5)	3230 (52.5)	2910 (58)	2810 (60.5)
120	2990 (41)	3300 (44)		3070 (50.5)	2760 (56)	2690 (58.5)
125	2540 (37.5)	2750 (41)		2890 (48.5)	2640 (54)	2590 (55.5)
130	2120 (34)	2250 (37.5)		2620 (46)	2540 (51.5)	2490 (53)
135	1740 (30.5)	1790 (33.5)		2260 (43)	2430 (49)	2390 (50)
140	1380 (26)	1370 (29)		1920 (40.5)	2320 (46)	
145	1060 (21)			1610 (37.5)	2020 (43)	
150				1320 (34.5)	1660 (40)	
155				1050 (31)	1330 (36.5)	
160					1020 (32.5)	
Min. boom angle for indicated length (no load)	20°	28°	47°	30°	31°	49°
Max. boom length at 0° boom angle (no load) Mode A	112.7 ft			112.7 ft		

NOTE: ( ) Boom angles are in degrees. 80051696  
 #LMI operating code. Refer to LMI manual for operating instructions.  
 \*This capacity is based on maximum obtainable boom angle.

# Load chart

 **42 m**  
 (138 ft)
  **10,1 m - 17,1 m**  
 (33 ft - 56 ft)
  **6516 kg**  
 (14,365 lb)
  **23 ft 4 in**  
 100%
  **360°**

 **42 m**  
 (138 ft)
  **10,1 m - 17,1 m**  
 (33 ft - 56 ft)
  **6,1 m**  
 (20 ft)
  **6516 kg**  
 (14,365 lb)
  **23 ft 4 in**  
 100%
  **360°**

MODE A and B						
Radius in feet	33 ft LENGTH			56 ft LENGTH		
	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
35	°8640 (78)					
40	8640 (77.5)					
45	8640 (76)			°5030 (78)		
50	8640 (74.5)	°7450 (78)		5030 (77)		
55	8640 (72.5)	7430 (76.5)	°6530 (78)	5030 (75.5)		
60	8180 (71)	7070 (74.5)	6530 (77.5)	5030 (74)		
65	7740 (69)	6730 (73)	6340 (75.5)	5030 (72.5)	°4500 (78)	
70	7230 (67.5)	6340 (71)	6010 (73.5)	5030 (70.5)	4500 (77)	
75	6880 (65.5)	6070 (69)	5790 (71.5)	5030 (69)	4340 (75)	°3760 (78)
80	6470 (63.5)	5750 (67)	5510 (69.5)	4860 (67.5)	4120 (73.5)	3690 (77.5)
85	6110 (61.5)	5460 (65)	5270 (67.5)	4600 (66)	3920 (72)	3600 (76)
90	5790 (59.5)	5200 (63)	5050 (65.5)	4280 (64.5)	3740 (70)	3500 (74)
95	5370 (57.5)	5030 (61)	4850 (63)	4070 (63)	3570 (68.5)	3370 (72)
100	4640 (55.5)	4810 (59)	4670 (61)	3870 (61.5)	3370 (66.5)	3240 (70.5)
105	3980 (53)	4510 (57)	4510 (58.5)	3640 (60)	3230 (65)	3090 (68.5)
110	3390 (51)	3840 (55)	3930 (56)	3480 (58)	3110 (63)	2980 (66.5)
115	2850 (48.5)	3240 (52.5)	3250 (53.5)	3290 (56.5)	2950 (61.5)	2850 (64.5)
120	2370 (46)	2700 (50)	2620 (51)	2860 (54.5)	2810 (59.5)	2730 (62.5)
125	1920 (43.5)	2200 (47)		2440 (52)	2710 (57.5)	2630 (60)
130	1520 (40.5)	1750 (44.5)		2040 (50)	2590 (55.5)	2530 (58)
135	1150 (38)	1330 (41.5)		1680 (47.5)	2340 (53.5)	2440 (55.5)
140				1350 (45.5)	1940 (51)	2190 (53)
145				1040 (43)	1570 (48.5)	1770 (50.5)
150					1220 (46)	
Min. boom angle for indicated length (no load)	37°	38°	50°	42°	44°	49°
Max. boom length at 0° boom angle (no load) Mode B	99.6 ft			86.9 ft		
Max. boom length at 0° boom angle (no load) Mode A	112.7 ft			112.7 ft		

MODE A and B			
Radius in feet	76 ft LENGTH (56' ext + 20' insert)		
	0° OFFSET	25° OFFSET	45° OFFSET
	#0084	#0085	#0086
50	°3550 (78)		
55	3550 (77)		
60	3550 (76)		
65	3550 (74.5)		
70	3550 (73)		
75	3550 (72)	°3390 (78)	
80	3550 (70.5)	3380 (77)	
85	3440 (69)	3160 (75.5)	°2660 (78)
90	3280 (68)	2960 (74)	2610 (77)
95	3060 (66.5)	2780 (72.5)	2580 (75.5)
100	2870 (65)	2610 (71)	2540 (73.5)
105	2690 (63.5)	2460 (69.5)	2410 (72)
110	2520 (62)	2320 (67.5)	2290 (70.5)
115	2370 (60.5)	2190 (66)	2170 (68.5)
120	2230 (59)	2070 (64.5)	2060 (67)
125	2100 (57.5)	1960 (62.5)	1960 (65)
130	1950 (56)	1850 (61)	1830 (63)
135	1800 (54)	1760 (59)	1740 (61)
140	1510 (52.5)	1640 (57.5)	1640 (59.5)
145	1240 (50.5)	1560 (55.5)	1540 (57)
150		1360 (53.5)	1470 (55)
155		1080 (51.5)	1310 (53)
160			1000 (50.5)
Min. boom angle for indicated length (no load)	49°	50°	49°
Max. boom length at 0° boom angle (no load) Mode B	74.1 ft		
Max. boom length at 0° boom angle (no load) Mode A	100.0 ft		

NOTE: ( ) Boom angles are in degrees.  
 #LMI operating code. Refer to LMI manual for operating instructions.  
 °This capacity is based on maximum obtainable boom angle.

80051697



NOTE: ( ) Boom angles are in degrees.  
 #LMI operating code. Refer to LMI manual for operating instructions.  
 °This capacity is based on maximum obtainable boom angle.

80051701

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

# Load chart




  
 11 m - 42 m (36 ft - 138 ft)    6516 kg (14,365 lb)    Stationary    360°





Radius in feet	Main boom length in feet - LMI code #9005			
	36.3	49.1	61.8	74.5
Tele 1	0%	0%	0%	0%
Tele 2	0%	17%	33%	50%
Tele 3	0%	17%	33%	50%
Tele 4	0%	17%	33%	50%
Mode	A, B	A	A	A
10	49,800 (69.5)	36,000 (75)		
12	45,650 (66)	32,550 (72.5)	32,500 (76.5)	
15	31,750 (60.5)	29,050 (68.5)	29,550 (73.5)	<sup>*</sup> 27,850 (78)
20	18,750 (50)	19,950 (62)	21,050 (68.5)	21,600 (72.5)
25	12,000 (37.5)	13,350 (55)	14,500 (63.5)	14,900 (68.5)
30	7840 (16)	9350 (47.5)	10,400 (58)	10,850 (64.5)
35		6620 (38)	7590 (52)	8010 (60)
40		4650 (25.5)	5560 (46)	5950 (55.5)
45			4030 (38.5)	4390 (50.5)
50			2840 (29.5)	3160 (45)
55			1870 (14.5)	2180 (39)
60				1380 (31.5)
Minimum boom angle (°) for indicated length (no load)				30
Maximum boom length (ft) at 0° boom angle (no load)				61.8

NOTE: ( ) Boom angles are in degrees.  
<sup>\*</sup>This capacity is based on maximum boom angle #LMI operating code. Refer to LMI manual for operating instructions.

Boom angle	Lifting capacities at 0° boom angle		
	36.3	49.1	61.8
0°	7490 (30.5)	3630 (43.2)	1520 (56)

NOTE: ( ) Reference radii in feet.

80051702




  
 11 m - 42 m (36 ft - 138 ft)    6516 kg (14,365 lb)    Pick and carry    Boom up to 2.5 mph over 29.5 x 25 tires front

Radius in feet	Main boom length in feet - LMI code #9006			
	36.3	49.1	61.8	74.5
Tele 1	0%	0%	0%	0%
Tele 2	0%	17%	33%	50%
Tele 3	0%	17%	33%	50%
Tele 4	0%	17%	33%	50%
Mode	A, B	A	A	A
10	54,800 (69.5)	35,400 (75)		
12	49,800 (66)	35,400 (72.5)	23,550 (76.5)	
15	41,300 (60.5)	35,400 (68.5)	23,550 (73.5)	<sup>*</sup> 19,000 (78)
20	31,200 (50)	32,500 (62)	23,550 (68.5)	19,000 (72.5)
25	24,100 (37.5)	25,700 (55)	23,550 (63.5)	19,000 (68.5)
30	17,550 (16)	19,550 (47.5)	20,750 (58)	19,000 (64.5)
35		14,550 (38)	15,900 (52)	16,300 (60)
40		10,300 (25.5)	12,450 (46)	12,950 (55.5)
45			9600 (38.5)	10,050 (50.5)
50			7920 (29.5)	8430 (45)
55			6380 (14.5)	6880 (39)
60				5610 (31.5)
65				4560 (22)
Minimum boom angle (°) for indicated length (no load)				0
Maximum boom length (ft) at 0° boom angle (no load)				74.5

NOTE: ( ) Boom angles are in degrees.  
<sup>\*</sup>This capacity is based on maximum boom angle #LMI operating code. Refer to LMI manual for operating instructions.

Boom angle	Lifting capacities at 0° boom angle			
	36.3	49.1	61.8	74.5
0°	16,950 (30.5)	8870 (43.2)	6110 (56)	3890 (68.7)

NOTE: ( ) Reference radii in feet.

80051703

## NOTES TO ALL RUBBER CAPACITY CHARTS:

- Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- Capacities are applicable to machines equipped with 29.5 x 25 (28 or 34) bias ply tires at, 65 psi cold inflation pressure.
- Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- Capacities are applicable only with machine on firm level surface.
- On rubber lifting with boom extensions not permitted.

6. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging.

7. Axle lockouts must be functioning when lifting on rubber.

8. All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity chart for tire used. Damaged tires are hazardous to safe operation of crane.

9. Creep - not over 200 ft of movement in any 30 minute period and not exceeding 1 mph.

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

# Rigging chart

## RIGGING CHART

INSTALLATION AND REMOVAL OF  
HYDRAULIC REMOVABLE CWT

ON O/R'S FULLY EXTENDED - 360°

Radius in feet	#0801	
	Main boom length in feet	
	*36.3	49.1
Tele 1	0%	0%
Tele 2	0%	17%
Tele 3	0%	17%
Tele 4	0%	17%
Mode	A, B	A
10	20,500 (69.5)	20,500 (75)
12	20,500 (66)	20,500 (73)
15	20,500 (60.5)	20,500 (69)
20	20,500 (50)	20,500 (62.5)
25	20,500 (37.5)	20,500 (55.5)
30	20,500 (16)	20,500 (47.5)
35		20,500 (38)

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for operating instructions.

Boom angle	Main boom length in feet	
	*36.3	
0°	20,500 (30.5)	

80051952

NOTE: ( ) Reference radii in feet.

\*Boom must be fully retracted.

# Load handling

Weight reductions for load handling devices		
33 ft - 56 ft : Folding boom extension:		
	Without block or ball	With 355 lb overhaul ball
*33 ft extension (erected)	4230 lb	5940 lb
*56 ft extension (erected)	9280 lb	12,100 lb
Folding extension with 20 ft insert:		
*56 ft extension (erected)	10,170 lb	12,260 lb
*Reduction of main boom capacities (no deduct required for stowed boom extension).		
Auxiliary boom nose:		
	130 lb	
Hookblocks and headache balls:		
65 USt, 5-sheave	1280 lb +	
8.3 USt, overhaul ball	355 lb +	

+Refer to rating plate for actual weight

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

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

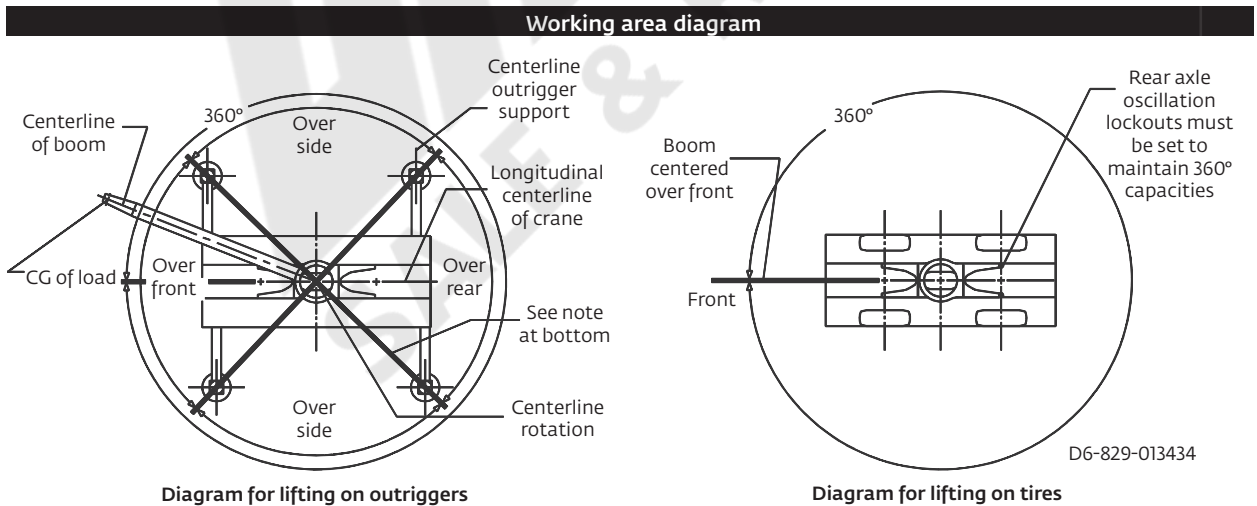
Line pulls and reeving information			
Hoists	Cable specs	Permissible line pulls	Nominal cable length
Main	19 mm (3/4 in) 6 x 37 class, EIPS, IWRC Special Flexible Min. breaking strength 58,800 lb	16,800 lb	650 ft
Main and auxiliary	19 mm (3/4 in) 35x7 Class Rotation Resistant (non-rotating) Min. breaking strength 85,800 lb	16,800 lb	653 ft

The approximate weight of 3/4 in wire rope is 1.5 lb/ft.

Hoist performance				
Wire rope layer	Hoist line pulls two-speed hoist		Drum rope capacity (ft)	
	Low available lb*	High available lb*	Layer	Total
1	18,134	9067	101	101
2	16,668	8334	110	211
3	15,420	7710	120	331
4	14,347	7174	129	460
5	13,413	6707	139	599
6	12,594	6297	149	748

\*Max lifting capacity: 6x37 and 35x7 class = 16,800 lb




































Tire inflation - PSI (BAR)		
Size (Front and Rear)	TRA Code	Lifting service, general travel and extended travel
29.5 x 25 (28 or 34) General/Titan, Denman Broadway/Rock Plus	E-3	65 (4.5) See operator's manual for extended roading.



Bold lines determine the limiting position of any load for operation withing working areas indicated.



# Symbols glossary

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



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**SALE & RENTAL**

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# Grove RT770E

## Product Guide

 65 t

 42 m

 10,1 - 17,1 m

 73,6 m



**Rough Terrain Crane • Geländekran  
Grue Tout-Terrain • Grúa Todo Terreno  
Autogru Fuoristrada • Grua RT  
Кран для использования на пересеченной местности**

# Features • Besonderheiten • Caractéristiques Características • Caratteristiche • Características • Особенности

- **MEGAFORM™ boom** - The Grove MEGAFORM™ boom shape eliminates weight and increases capacity compared to conventional shapes. Large wear pads provide superior boom alignment when telescoping, and allow an excellent transition of weights between sections.
- **MEGAFORM™ Ausleger** - Durch das spezielle Design des Grove MEGAFORM™-Auslegers kann im Vergleich zu konventionellen Auslegern Gewicht eingespart und Leistung gesteigert werden. Große Verschleißpolster sorgen für eine optimale Ausrichtung des Auslegers beim Ausfahren und ermöglichen eine ausgezeichnete Verteilung des Gewichts zwischen den Sektionen.
- **Flèche MEGAFORM™** - La forme de la flèche Grove MEGAFORM™ réduit le poids et augmente la capacité par rapport aux formes conventionnelles. Les grandes plaques d'usure optimisent l'alignement de la flèche lors du télescopage et permettent une excellente répartition des charges entre les sections.
- **Pluma MEGAFORM™** - La pluma con forma Grove MEGAFORM™ reduce peso y aumenta la capacidad en comparación con las formas convencionales. Las grandes placas de desgaste proporcionan una mejor alineación de la pluma durante la extensión y permiten una excelente transición de pesos entre las secciones.
- **Braccio MEGAFORM™** - La sezione del braccio Grove MEGAFORM™ riduce il peso e aumenta la capacità rispetto alle configurazioni convenzionali. I pattini di scorrimento di grandi dimensioni garantiscono un allineamento del braccio telescopico di livello superiore e consentono una transizione eccellente dei pesi tra le sezioni.
- **Lança MEGAFORM™** - A forma MEGAFORM™ das lanças Grove proporciona uma redução de peso e um aumento de capacidade quando comparado com as formas tradicionais. As grandes placas de desgaste fornecem um melhor alinhamento da lança aquando da telescopagem, permitindo uma excelente repartição dos pesos entre as secções.
- **Кран на вседорожном шасси MEGAFORM™ boom** - The Grove Модель MEGAFORM™ boom снижает вес и увеличивает грузоподъемность по сравнению со стандартными моделями. Большая поворотная опора обеспечивает идеальное выравнивание стрелы во время юстировки и превосходное перемещение грузов между секциями.



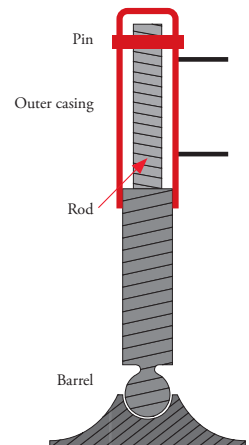
- **Extensions** - An optional bi-fold swingaway lattice extension easily stows on the side of the base boom for easy transport while providing on-board extension from 10,1 m - 17,1 m for a maximum tip height of 55,0 m. By adding inserts of 6,1 m, the maximum tip height on the RT770E can be extended even further to 73,6 m.
- **Verlängerungen** - Eine optionale hochklappbare Verlängerung lässt sich zum einfachen Transport problemlos an der Seite des Auslegers anbringen und ermöglicht es, den Ausleger um 10,1 m und 17,1 m zu verlängern, wodurch sich seine maximale Höhe auf 55,0 m erhöht. Durch zusätzliche 6,1 m lange Aufsätze kann die maximale Rollenhöhe am RT770E selbst über 73,6 m erweitert werden.
- **Extensions** - Une extension treillis à double repliage qui se range facilement le long de l'élément de flèche de base pour un transport aisé tout en fournissant un extension embarquée de 10,1 m à 17,1 m pour une hauteur maximale d'extension du treillis de 55,0 m. En ajoutant des éléments intermédiaires de 6,1 m, la hauteur maximale de tête de flèche de la RT770E peut encore être portée à 73,6 m.
- **Extensiones** - El plumín opcional de celosía, abatible y articulado en 2 secciones se aloja de forma sencilla al lado de la pluma para trasladarlo fácilmente a la vez que aporta una extensión de 10,1 m a 17,1 m para alcanzar una altura máxima en punta de 55,0 m. Es posible ampliar la altura máxima en punta de la RT770E hasta 73,6 m utilizando segmentos de 6,1 m.
- **Prolunghe** - Il falcone tralicciato ripieghevole si ripone facilmente sul lato del braccio telescopico per un facile trasporto, fornendo un'estensione da 10,1 m a 17,1 m per un'altezza massima in punta 55,0 m. Con l'aggiunta di inserti di 6,1 m, l'altezza massima della punta sul RT770E può essere estesa ulteriormente a 73,6 m.
- **Extensão** - Uma extensão dupla, treliçada e articulada (opcional) aloja-se facilmente na parte lateral da lança facilitando o seu transporte, enquanto permite o transporte com a grua de uma extensão de 10,1 m - 17,1 m, permitindo alcançar uma altura máxima à ponta de 55,0 m. Ao adicionar insertos de 6,1 m, a altura máxima da ponta no RT770E pode ser avançada até mais de 73,6 m.
- **Удлинение стрелы** - опциональное двухсекционное поворотное решетчатое удлинение стрелы легко укладывает груз со стороны основания стрелы, что делает перемещение грузов простым, обеспечивая раздвижение стрелы от 10,1 м до 17,1 м до максимальной высоты конца стрелы в 55,0 м. С помощью вставок длиной 6,1 м максимальная высота головки стрелы RT770E может быть увеличена еще больше – до 73,6 м.

- **Full vision cab** - New full-vision cab, all-steel fabricated with acoustical lining and tinted safety glass throughout. Easy and safe to access.
- **Kabine mit Rundumsicht** - Neue Fahrerkabine mit Rundumsicht, komplett aus Stahl mit Lärmschutzisolation und mit rundum getöntem Sicherheitsglas. Einfacher und sicherer Zugang.
- **Cabine panoramique** - Nouvelle cabine panoramique tout acier, fabriquée avec une isolation sonore et un vitrage teinté de sécurité sur tout le pourtour. Accès facile et sûr.
- **Cabina de visión panorámica** - Nueva cabina de visión panorámica, fabricada totalmente en acero con revestimiento acústico y cristal de seguridad completamente tintado. Acceso fácil y seguro.
- **Cabina "Full Vision"** - Nuova cabina ad ampia visibilità, completamente realizzata in acciaio con rivestimento acustico e vetri di sicurezza colorati. Accesso facile e sicuro.
- **Cabina panorámica** - Nova cabina panorámica, que permite uma visibilidade completa, fabricada integralmente em aço com isolamento acústico e vidro de segurança colorido. Acesso fácil e seguro.
- **Кабина с круговым обзором** - Новая цельно стальная кабина с круговым обзором, со звукоизоляционной обивкой и затемненным небьющимся стеклом по всему периметру. Легкий и безопасный доступ в кабину.



# Features • Besonderheiten • Caractéristiques Características • Caratteristiche • Características • Особенности

- **Inverted outrigger jacks:** allows to protect the cylinder rod from sand, dust, oils and various elements you can find on a jobsite and increases seal life. The outriggers can be spread in 3 different positions: fully retracted, 50 % and 100 % open.
- **innen liegende Abstützzylinder:** schützt die Zylinderstange vor Sand, Staub, Öl und verschiedenen anderen Einflüssen auf der Baustelle. Die Abstützträger können in 3 Stellungen fixiert werden: Voll eingefahren, 50 % und 100 %.
- **Système de calage inversé :** permet de protéger la tige de vérin du sable, de la poussière, de la graisse et de tout autre élément courant sur un site de chantier. Le système de calage peut être placé dans 3 positions : entièrement rentré, 50 % et 100 %.
- **Estabilizadores invertidos:** permite proteger el vástago del cilindro, de la arena, el polvo, aceites y diversos elementos que se pueden encontrar en el lugar de trabajo. Los estabilizadores se pueden fijar en 3 posiciones diferentes: Totalmente plegados, 50% y 100%.
- **Stabilizzatori a steli rovesciati:** consentono di proteggere lo stelo del cilindro dagli urti oltre che dalla sabbia, polvere, olio e vari elementi tipici dei cantieri. Gli stabilizzatori possono essere estesi in 3 configurazioni diverse: Completamente retratti, 50% e 100%.
- **Estabilizadores invertidos:** permite proteger a haste do cilindro da areia, do pó, dos óleos e dos vários elementos que se podem encontrar num local de trabalho. Os estabilizadores podem ser fixos em 3 posições diferentes: totalmente fechados, abertos a 50% e abertos a 100%.
- **Перевернутые цилиндры опор:** способствуют защите штока цилиндра от попадания песка, пыли и прочих веществ, имеющихся на рабочем месте. Выносные опоры можно устанавливать в 3 различных положениях: выдвинув полностью, на 50% или 100%.



- **Tier IV / Euro mot 3B compliant engine:** cranes are equipped with engines that meet emissions per U.S.E.P.A. Tier IV and E.U. Stage 3B; engines Tier III / Euro mot 3A are available for sales outside of European Union and North American countries.
- **Emissionswerte gemäß Tier IV/Euro mot 3B:** Die Krane sind mit Motoren ausgerüstet, die die Emissionsvorgaben der Verordnungen U.S.E.P.A. Tier IV bzw. E.U. Stage 3B erfüllen; Motoren mit Emissionswerten gemäß Tier III bzw. Euro mot 3A werden außerhalb Europas und Nordamerikas vertrieben.
- **Moteur conforme à Tier IV / Euro mot 3B :** les grues sont équipées de moteurs respectant les exigences en matière d'émissions selon l'U.S.E.P.A. Tier IV et E.U. Phase 3B ; les moteurs Tier III / Euro mot 3A sont disponibles à la vente hors de l'Union européenne et des pays d'Amérique du Nord.
- **Motor conforme a los estándares Tier IV / Euro mot 3B:** las grúas cuentan con motores que cumplen las normativas de emisiones contaminantes Tier IV de la U.S.E.P.A. y Fase 3B de la U.E.; Se dispone de motores Tier III / Euro mot 3A para venta fuera de la Unión Europea y Norteamérica.
- **Motore conforme Tier IV i / Euro mot 3B:** le autogru sono equipaggiate con motori conformi alla normativa Tier IV Interim (U.S.A.) / Euro mot 3B (C.E.); i motori Tier III / Euro mot 3A sono disponibili per vendita al di fuori dell'Unione Europea e dei paesi del Nord America.
- **Motor em conformidade com Tier IV / Euro mot 3B:** as gruas estão equipadas com motores que respeitam as emissões de acordo com Tier IV da USEPA e Classe III B da UE; os motores Tier III / Euro mot 3A estão disponíveis para venda fora da União Europeia e países da América do Norte.
- **Двигатель типа Tier IV / Euro mot 3B, отвечающий применимым экологическим требованиям:** краны оснащены двигателями, удовлетворяющими требованиям по выбросам U.S.E.P.A. Tier IV и E.U. Stage 3B; двигатели типа Tier III / Euro mot 3A продаются вне Европейского Союза и стран Северной Америки.

**CraneSTAR**  
EQUIPPED

- **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.
- **CraneSTAR** ist ein exklusives und innovatives Kran-Anlagegüterverwaltungssystem, das Ihnen hilft, auch außerhalb Ihres Büros wichtige Krandaten abzurufen und somit Ihre Profitabilität zu steigern und Kosten zu reduzieren. Mehr Informationen unter [www.cranestar.com](http://www.cranestar.com).
- **CraneSTAR** est un système exclusif et innovant de gestion de parc de grues qui contribue à améliorer la rentabilité et à réduire les coûts en surveillant à distance les données cruciales des grues. Visitez [www.cranestar.com](http://www.cranestar.com) plus de plus amples informations.
- **CraneSTAR** es un sistema exclusivo e innovador de gestión de flotas de grúas que ayuda a mejorar la rentabilidad y reducir los costes controlando a distancia los datos críticos de la grúa. Más información en [www.cranestar.com](http://www.cranestar.com)
- **CraneSTAR** è un esclusivo e innovativo sistema di gestione del parco mezzi che aiuta a migliorare la redditività e ridurre i costi attraverso il monitoraggio remoto dei dati critici dell'autogru. Visitare il sito [www.cranestar.com](http://www.cranestar.com) per ulteriori informazioni.
- **CraneSTAR** é um sistema exclusivo e inovador de gestão de frotas de gruas que ajuda a melhorar a sua rentabilidade e a reduzir os custos ao monitorizar à distância os dados importantes da grua. Mais informação em [www.cranestar.com](http://www.cranestar.com).
- **CraneSTAR** - это эксклюзивная инновационная система управления ресурсом подъемного крана, которая позволяет увеличить производительность и сократить расходы путем постоянного дистанционного наблюдения за критическими данными подъемного крана. Посетите сайт [www.cranestar.com](http://www.cranestar.com) для получения дополнительной информации.

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Manitowoc Crane Care is the Manitoowoc's unparalleled product support organisation. Manitoowoc Crane Care combines all aspects of parts, service, technical documentation, technical support and training into one organisation. The program includes all of the Manitoowoc's brands, which include, Potain, Grove, Manitoowoc and National Crane.

For the care of your crane and the prosperity of your business, Manitoowoc Crane Care is your single source for customer support. Wherever, whenever, whatever – we're there.

Manitoowoc Crane Care vereint alle Serviceleistungen von Manitoowoc im Produktsupport vor und nach dem Verkauf Ersatzteile, Service, technische Dokumentation, technischer Support und Schulung, alles unter einem Dach. Dieser Service erstreckt sich auf alle Marken von Manitoowoc: Potain, Grove, Manitoowoc und National Crane.

Damit Ihr Kran leistungsfähig bleibt und Ihr Erfolg gesichert ist, bietet Ihnen Manitoowoc Crane Care einen umfassenden Support aus einer Hand. Zu jeder Zeit, an jedem Ort, für jeden Fall – wir sind für Sie da.

Organisation hors pair dédiée au support technique des produits de Manitoowoc, Manitoowoc Crane Care réunit au sein d'une même entité tous les aspects du service : pièces de rechange, service après-vente, publication technique, assistance technique et formation. Ce programme s'adresse à toutes les marques de Manitoowoc : Potain, Grove, Manitoowoc et National Crane.

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Pour assurer l'entretien de vos grues et la prospérité de votre entreprise, Manitoowoc Crane Care constitue votre unique interlocuteur du service à la clientèle. Où que vous soyez, quel que soit votre besoin, vous pouvez toujours compter sur nous !

Manitoowoc Crane Care, es la organización de post-venta y soporte técnico de Manitoowoc. Manitoowoc Crane Care combina todos los aspectos relacionados con piezas de repuesto, servicio, documentación técnica, apoyo técnico y formación en una sola organización. El programa también incluye todas las marcas que Manitoowoc engloba: Potain, Grove, Manitoowoc y National Crane.

Para el cuidado de su grúa y la prosperidad de su negocio, Manitoowoc Crane Care, es la forma más sencilla de ayudarle. Donde sea y cuando sea, nosotros estamos allí.

Manitoowoc Crane Care è l'ineguagliabile organizzazione di supporto di Manitoowoc. Manitoowoc Crane Care gestisce tutte le attività legate a pezzi di ricambio, documentazione tecnica, assistenza tecnica e formazione riunite in un unico punto di riferimento. Questo servizio è attivo per tutti i marchi di Manitoowoc e precisamente Potain, Grove, Manitoowoc e National Crane.

Per l'assistenza delle Vostre gru e per la redditività dei Vostri investimenti, Manitoowoc Crane Care è l'insostituibile Vostra risorsa. In ogni posto, tutte le volte, per qualsiasi necessità – noi ci siamo

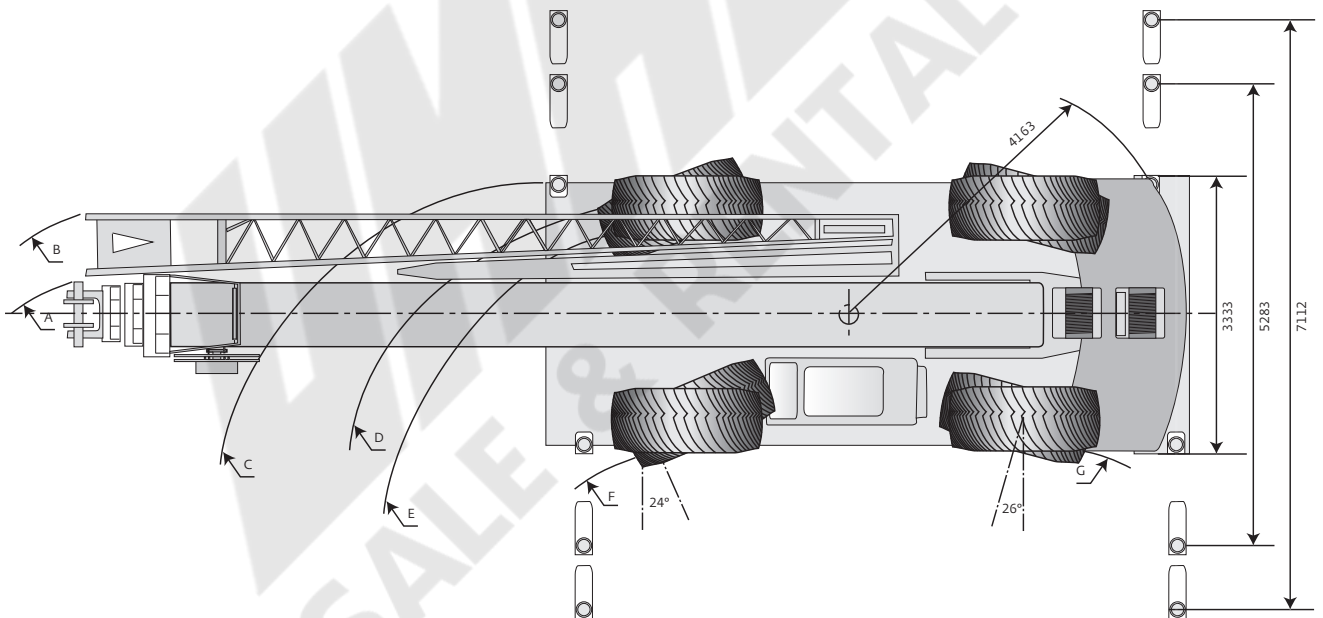
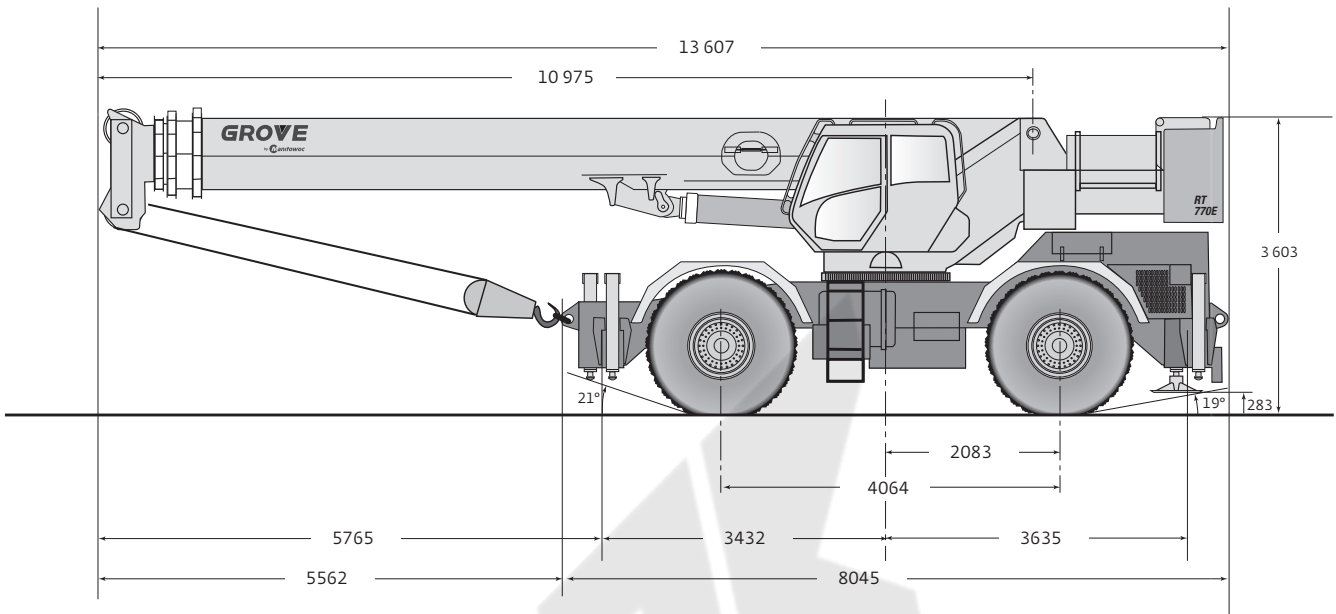
Organização verdadeiramente impar dentro da Manitoowoc Crane Group, é a Manitoowoc Crane Care que compete a responsabilidade pelo suporte técnico dos nossos produtos. Ela reúne, numa mesma entidade, todos os aspectos do serviço: peças de substituição, serviço pós-venda, documentação técnica, suporte técnico e formação. Este programa abrange todas as marcas do Manitoowoc Crane Group: Potain, Grove, Manitoowoc e National Crane. Para assegurar a manutenção cuidada das suas gruas e a prosperidade do seu negócio, o seu único interlocutor do serviço de clientes é a Manitoowoc Crane CARE. Esteja onde estiver, sejam as horas que forem, precise do que precisar, pode sempre contar conosco!

Manitoowoc Crane Care - это не имеющая аналогов организация, входящая в Manitoowoc и осуществляющая техническую поддержку продукции. Manitoowoc Crane Care занимается всеми аспектами, связанными с запасными частями, услугами, технической документацией, технической поддержкой и обучением. Программа включает все торговые марки Manitoowoc, в том числе, Potain, Grove, Manitoowoc и National Crane.

Manitoowoc Crane Care является единой точкой контактов для всех клиентов компании, где они могут получить полное обслуживание для используемых ими кранов, что, в свою очередь, обеспечит процветание их бизнеса. Мы всегда там и в тот момент, где и когда мы необходимы.



# Dimensions • Abmessungen • Encombrement Dimensiones • Dimensioni • Dimensões • Размеры



Tire size	A	B	C	D	E	F	G	A	B	C	D	E	F	G
29,5-25	14 961	15 494	12 460	11 732	11 342	9 004	7 662	10 922	11 153	7 830	7 099	6 744	4 368	3 496
	2 wheel steer							4 wheel steer						

Note: Reference dimensions in mm • Hinweis: Bezugsmaße in mm • Remarque : cotes de référence en mm • Nota: Dimensiones de referencia en mm • Nota: Dimensioni di riferimento in mm • Nota: Dimensões de referência em mm • Примечание: Справочные размеры (в мм)

# Weight • Gewicht • Poids • Peso Peso • Peso • Bec



Axle Achse Essieu Eje Asse Eixo Оси	Total weight Gesamtgewicht Poids total Peso total Peso totale Peso total Суммарный вес	Front Vorne Avant Delantero Anteriore Dianteiro Передняя	Rear Hinten Arrière Trasero Posteriore Traseiro Задняя
	kg	kg	kg
<ul style="list-style-type: none"> <li>• Basic machine including 42,0 m main boom, main hoist with 183 m of wire rope, auxiliary hoist with 152 m of wire rope, full pinned counterweight, full decking, A/C, and hoist access platform, Tier IV engine</li> <li>• Basismaschine mit 42,0 m Hauptausleger, Hauptwinde mit 183 m Drahtseil, Hilfswinde mit 152 m Drahtseil, voll befestigtes Gegengewicht, Deck über die volle Länge, Klimaanlage und Zugangsplattform zur Winde, Motor (Tier IV)</li> <li>• Machine de base comportant une flèche principale de 42,0 m, un treuil principal avec 183 m de câble métallique, un treuil auxiliaire avec 152 m de câble métallique, un contrepoids entièrement broché, un platelage complet, air conditionné, et une plateforme d'accès au treuil, moteur (Tier IV)</li> <li>• Máquina base que incluye pluma principal de 42,0 m, cabrestante principal con 183 m de cable, cabrestante auxiliar con 152 m de cable, contrapeso completamente fijado, cubierta completa, aire acondicionado y plataforma de acceso al cabrestante, motor (Tier IV)</li> <li>• Macchina base comprensiva di braccio principale da 42,0 m, argano principale con 183 m di fune metallica, argano ausiliario con 152 m di fune metallica, contrappeso completo, rivestimento completo, aria condizionata, piattaforma per accesso all'argano, motore (Tier IV)</li> <li>• Máquina base que inclui lança principal de 42m, guincho principal com 183 m de cabo de aço, guincho auxiliar com 152 m de cabo de aço, contrapeso fixo por cavilhas, piso totalmente coberto, ar condicionado e plataforma de acesso ao guincho, motor (Tier IV).</li> <li>• Базовая машина с 42,0-метровой главной стрелой, главным подъёмником с 183-метровым стальным тросом, дополнительным подъёмником со 152-метровым тросом, полностью закреплённым противовесом, полной платформой, кондиционированием и ремонтной платформой подъёмника, Двигатель (Tier IV).</li> </ul>	41 794	20 024	21 770
<ul style="list-style-type: none"> <li>• Add: 10,1 - 17,1 m bi-fold swingaway, extension carrier brackets, aux. boom nose</li> <li>• Hinzufügen: 10,1 - 17,1 m klappbare Verlängerung, Befestigungsklammern für Verlängerung, zusätzlicher Auslegerkopf</li> <li>• Ajouter : 10,1 - 17,1 m extension à double repliage, consoles de support de l'extension, tête de flèche auxiliaire</li> <li>• Añadir: plumín articulado en 2 secciones de 10,1 a 17,1 m + soportes del plumín, punta de pluma auxiliar</li> <li>• Aggiungere: falcone ripieghevole di 10,1 - 17,1 m, staffe di supporto del traliccio, testa braccio ausiliaria</li> <li>• Adicionar: Extensão dupla treliçada, articuladas (jib) de 10,1 a 17,1 m + suportes de apoio do jib e cabeça da lança auxiliar.</li> <li>• Дополнительно: 10,1 м - 17,1м двухсекционное поворотное удлинение, кронштейны удлинения, вспомогательным наконечником стрелы</li> </ul>	1 295	2 175	- 880
Total weight • Gesamtgewicht • Poids total • Peso total • Peso totale • Peso total • Суммарный вес	43 089	22 220	20 889
<ul style="list-style-type: none"> <li>• Add: 60 t 5-sheave hook block stowed in through</li> <li>• Hinzufügen: 60 t Hakenflasche mit 5 integrierten Seilrollen</li> <li>• Ajouter : bloc de crochet intégré 60 t à 5 poulies</li> <li>• Añadir: bloque de gancho integrado con 5 poleas de 60 t</li> <li>• Aggiungere: gancio a 5 pulegge da 60 t</li> <li>• Adicionar: gancho com 5 roldanas de 60 t</li> <li>• Дополнительно: 60-тонный 5-шкивный интегрированный крюкоблок</li> </ul>	581	581	0
Total weight • Gesamtgewicht • Poids total • Peso total • Peso totale • Peso total • Суммарный вес	43 669	22 780	20 899
<ul style="list-style-type: none"> <li>• Add: 7,5 t headache ball • Hinzufügen: 7,5 t Drallfänger</li> <li>• Ajouter : boule de démolition de 7,5 t • Añadir: gancho de bola de 7,5 t</li> <li>• Aggiungere: gancio a palla da 7,5 t • Adicionar: gancho de bola de 7,5 t</li> <li>• Дополнительно: 7,5-тонная шаровая баба</li> </ul>	161	262	- 101
Total weight • Gesamtgewicht • Poids total • Peso total • Peso totale • Peso total • Суммарный вес	43 830	23 042	20 788



Lifting Capacity Traglast Force de levage Capacidad de elevación Capacità di sollevamento Capacidade de elevação Грузоподъемность	Sheaves Rollen Poules Poleas Carrucolo Roldanas Шкивы	Parts of line Stränge Brins Ramales de cable Numero di funi Partes de cabo Кратность запасовки	Total weight Gesamtgewicht Poids total Peso total Peso totale Peso total Суммарный вес
60 t	5	9	581 kg
7,5 t	H/B (swivel)	1	161 kg



	Infinitely variable Stufenlos Progressivement variable Infinitamente variable Infinitamente variabile Infinitamente variável Плавно-изменяемый	Rope Seil Câble Cable Fune Cabo Канат	Permissible line pull max. Max. Seilzug Effort maxi au brin Tracciones del cable admisibles Trazioni ammissibili della linea Esforço máx. admissível no cabo Максимально допустимое натяжение каната	Nominal cable length Seillänge (Nennwert) Longueur nominale des cables Longitud nominal del cable Lunghezza nominale cavo Comprimento nominal de cabo Номинальная длина каната
	0 - 153 m/min single line / bei einfachem Strang brin simple / ramal simple tiro a fune singola / cabo simples Однократная запасовка	19 mm (6x37 class)	7 620 kg	183 m
	0 - 153 m/min single line / bei einfachem Strang brin simple / ramal simple tiro a fune singola / cabo simples Однократная запасовка	19 mm (35x7 class)	7 620 kg	152 m
	0 - 2,5 min <sup>-1</sup>			
	-3° / +78° approx. 55 s ca. 55 s • env. 55 s aproximadamente 55 s circa 55 s • cerca de 55 s примерно 55 с			
	11,0 m - 42,0 m approx. 110 s ca. 110 s • env. 110 s aproximadamente 110 s circa 110 s • cerca de 110 s примерно 110 с			

# Load charts • Traglasten • Capacités de levage • Capacidades Capacità • Diagramas de carga • Таблицы грузоподъемности

Working range • Arbeitsbereiche • Diagramme de levage • Gama de trabajo • Area di lavoro  
Intervalo de funcionamento • Грузовысотные характеристики



11,0-42,0 m



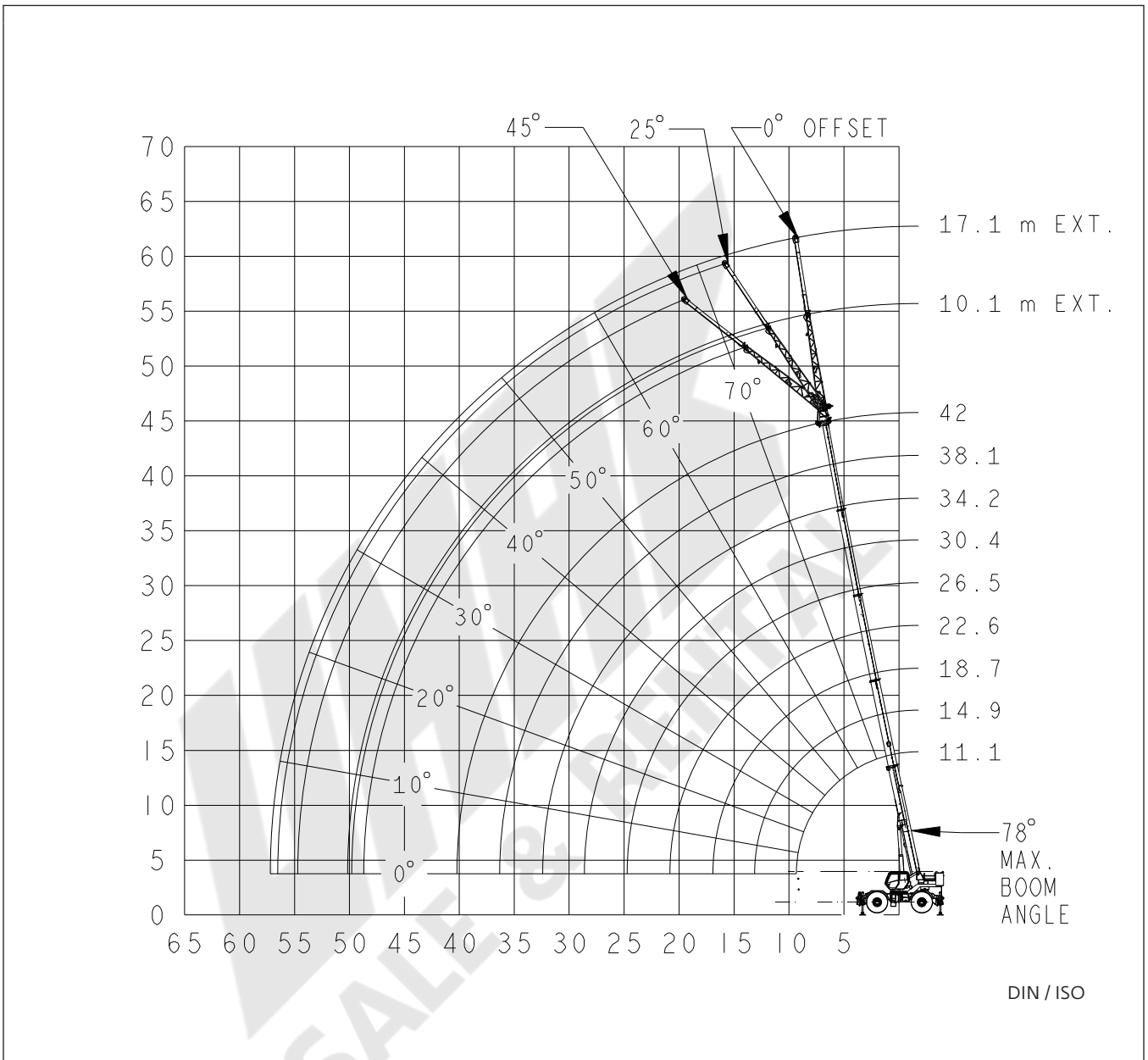
100 %



360°



6,5 t



	H (mm) (t)
	2644

# Load charts • Traglasten • Capacités de levage • Capacidades Caracità • Diagramas de carga • Таблицы грузоподъемности

Telescopic boom • Teleskopausleger • Flèche principale • Pluma telescópica • Braccio telescopico  
Lança telescópica • Телескопическая стрела



11,0 - 42,0 m



100%



360°



6,5 t



EN 13000

m	11,0	14,9 - 15,0	18,7 - 18,8	22,6 - 22,7	26,5 - 26,6	30,4 - 30,5	34,2 - 34,4	38,1 - 38,2	42,0	m
2,5	60,000	-	-	-	-	-	-	-	-	2,5
3,0	54,150	41,475	-	-	-	-	-	-	-	3,0
3,5	48,700	41,475	32,825	-	-	-	-	-	-	3,5
4,0	43,925	41,475	32,825	-	-	-	-	-	-	4,0
4,5	39,475	38,775	32,825	22,650	-	-	-	-	-	4,5
5,0	35,600	34,950	32,425	22,650	13,425	-	-	-	-	5,0
6,0	29,375	28,725	28,125	22,650	21,275	11,700	-	-	-	6,0
7,0	24,675	24,075	23,575	22,650	19,500	16,450	12,725	-	-	7,0
8,0	20,900	21,300	20,050	19,875	17,625	15,800	12,675	-	-	8,0
9,0	17,725	18,175	18,450	16,900	16,050	14,125	12,375	9,800	-	9,0
10,0	-	15,725	16,025	14,150	14,375	12,950	11,825	9,695	7,270	10,0
12,0	-	11,850	12,175	12,025	11,075	11,000	10,100	9,160	7,165	12,0
14,0	-	-	9,590	9,930	8,625	8,705	8,650	8,140	6,815	14,0
16,0	-	-	7,370	7,815	6,850	6,525	6,625	6,675	6,185	16,0
18,0	-	-	-	6,215	6,090	5,355	5,420	5,490	5,530	18,0
20,0	-	-	-	4,995	5,350	4,780	4,465	4,745	4,610	20,0
22,0	-	-	-	-	4,435	4,300	3,845	4,230	3,865	22,0
24,0	-	-	-	-	3,655	3,745	3,460	3,550	3,230	24,0
26,0	-	-	-	-	-	3,120	3,130	2,940	2,630	26,0
28,0	-	-	-	-	-	2,605	2,720	2,435	2,125	28,0
30,0	-	-	-	-	-	-	2,300	2,000	1,710	30,0
32,0	-	-	-	-	-	-	1,925	1,620	1,330	32,0
34,0	-	-	-	-	-	-	-	1,290	0,985	34,0
36,0	-	-	-	-	-	-	-	0,995	0,680	36,0

80052387



85 %

m	11,0	14,9 - 15,0	18,7 - 18,8	22,6 - 22,7	26,5 - 26,6	30,4 - 30,5	34,2 - 34,4	38,1 - 38,2	42,0	m
2,5	65,000	-	-	-	-	-	-	-	-	2,5
3,0	60,000	41,475	-	-	-	-	-	-	-	3,0
3,5	53,000	41,475	32,825	-	-	-	-	-	-	3,5
4,0	47,450	41,475	32,825	-	-	-	-	-	-	4,0
4,5	42,875	41,475	32,825	22,650	-	-	-	-	-	4,5
5,0	39,050	38,100	32,825	22,650	13,425	-	-	-	-	5,0
6,0	32,950	32,025	30,475	22,650	22,600	11,700	-	-	-	6,0
7,0	28,325	27,425	26,750	22,650	21,400	17,775	13,400	-	-	7,0
8,0	24,150	23,375	23,025	22,400	19,300	17,350	13,400	-	-	8,0
9,0	20,600	21,125	20,575	20,075	17,500	15,800	13,400	10,200	-	9,0
10,0	-	18,275	18,725	17,275	15,975	14,450	13,225	10,200	8,435	10,0
12,0	-	13,400	13,900	13,400	12,700	12,200	11,250	10,200	8,270	12,0
14,0	-	-	10,500	10,900	9,550	9,970	9,655	9,035	8,070	14,0
16,0	-	-	8,185	8,605	7,990	7,750	8,100	7,840	7,305	16,0
18,0	-	-	-	6,935	7,080	6,215	6,445	6,665	6,490	18,0
20,0	-	-	-	5,640	6,045	5,525	5,195	5,510	5,615	20,0
22,0	-	-	-	-	5,030	4,945	4,415	4,895	4,625	22,0
24,0	-	-	-	-	4,200	4,275	3,950	4,105	3,825	24,0
26,0	-	-	-	-	-	3,620	3,545	3,460	3,170	26,0
28,0	-	-	-	-	-	3,070	3,190	2,920	2,620	28,0
30,0	-	-	-	-	-	-	2,740	2,460	2,155	30,0
32,0	-	-	-	-	-	-	2,345	2,055	1,755	32,0
34,0	-	-	-	-	-	-	-	1,700	1,395	34,0
36,0	-	-	-	-	-	-	-	1,385	1,070	36,0
38,0	-	-	-	-	-	-	-	-	0,785	38,0
40,0	-	-	-	-	-	-	-	-	0,530	40,0

80052137

# Load charts • Traglasten • Capacités de levage • Capacidades Capacità • Diagramas de carga • Таблицы грузоподъемности

Telescopic boom • Teleskopausleger • Flèche principale • Pluma telescópica • Braccio telescopico  
Lança telescópica • Телескопическая стрела



11,0 - 42,0 m



50%



360°



6,5 t



EN 13000

m	11,0	14,9 - 15,0	18,7 - 18,8	22,6 - 22,7	26,5 - 26,6	30,4 - 30,5	34,2 - 34,4	38,1 - 38,2	42,0	m
3,0	54,150	41,475	-	-	-	-	-	-	-	3,0
3,5	48,700	41,475	32,825	-	-	-	-	-	-	3,5
4,0	43,925	41,475	32,825	-	-	-	-	-	-	4,0
4,5	39,475	37,250	32,825	22,650	-	-	-	-	-	4,5
5,0	35,600	31,450	28,075	22,650	13,425	-	-	-	-	5,0
6,0	26,775	23,625	22,625	20,525	19,725	11,700	-	-	-	6,0
7,0	20,850	20,250	19,375	18,075	15,975	15,475	12,725	-	-	7,0
8,0	16,050	16,625	16,075	15,500	13,225	12,900	12,575	-	-	8,0
9,0	12,750	13,525	13,600	13,200	11,525	10,950	10,725	9,800	-	9,0
10,0	-	11,075	11,600	11,400	10,675	9,450	9,245	9,075	7,270	10,0
12,0	-	7,745	8,265	8,665	8,595	8,220	7,025	7,485	6,860	12,0
14,0	-	-	6,070	6,505	6,840	6,735	6,180	5,945	5,390	14,0
16,0	-	-	4,535	4,960	5,360	5,460	5,390	4,785	4,275	16,0
18,0	-	-	-	3,820	4,210	4,345	4,440	3,875	3,400	18,0
20,0	-	-	-	2,940	3,330	3,465	3,580	3,150	2,700	20,0
22,0	-	-	-	-	2,625	2,760	2,885	2,550	2,120	22,0
24,0	-	-	-	-	2,055	2,190	2,315	2,005	1,640	24,0
26,0	-	-	-	-	-	1,720	1,840	1,540	1,215	26,0
28,0	-	-	-	-	-	1,320	1,440	1,150	0,855	28,0
30,0	-	-	-	-	-	-	1,100	0,815	0,530	30,0
32,0	-	-	-	-	-	-	0,805	0,520	-	32,0

80052388



85 %

m	11,0	14,9 - 15,0	18,7 - 18,8	22,6 - 22,7	26,5 - 26,6	30,4 - 30,5	34,2 - 34,4	38,1 - 38,2	42,0	m
3,0	56,575	41,475	-	-	-	-	-	-	-	3,0
3,5	51,150	41,475	32,825	-	-	-	-	-	-	3,5
4,0	46,600	41,475	32,825	-	-	-	-	-	-	4,0
4,5	42,225	41,475	32,825	22,650	-	-	-	-	-	4,5
5,0	38,400	35,250	32,075	22,650	13,425	-	-	-	-	5,0
6,0	28,500	25,925	23,800	22,650	22,575	11,700	-	-	-	6,0
7,0	20,850	21,600	21,200	18,825	18,000	17,600	13,400	-	-	7,0
8,0	16,050	16,825	17,350	16,975	14,750	14,525	13,400	-	-	8,0
9,0	12,750	13,525	14,025	14,325	12,875	12,200	12,050	10,200	-	9,0
10,0	-	11,075	11,600	11,950	11,900	10,550	10,325	10,200	8,435	10,0
12,0	-	7,745	8,265	8,665	8,960	9,080	8,265	8,295	7,695	12,0
14,0	-	-	6,070	6,505	6,870	6,970	7,065	6,545	6,015	14,0
16,0	-	-	4,535	4,960	5,360	5,460	5,555	5,170	4,760	16,0
18,0	-	-	-	3,820	4,210	4,345	4,440	4,070	3,750	18,0
20,0	-	-	-	3,940	3,330	3,465	3,580	3,225	2,915	20,0
22,0	-	-	-	-	2,625	2,760	2,885	2,555	2,245	22,0
24,0	-	-	-	-	2,055	2,190	2,315	2,005	1,706	24,0
26,0	-	-	-	-	-	1,720	1,840	1,540	1,255	26,0
28,0	-	-	-	-	-	1,320	1,440	1,150	0,870	28,0
30,0	-	-	-	-	-	-	1,100	0,815	0,530	30,0
32,0	-	-	-	-	-	-	0,805	0,520	-	32,0

80052138

# Load charts • Traglasten • Capacités de levage • Capacidades Caracità • Diagramas de carga • Таблицы грузоподъемности

Telescopic boom • Teleskopausleger • Flèche principale • Pluma telescópica • Braccio telescopico  
Lança telescópica • Телескопическая стрела



11,0 - 42,0 m



0 %



360°



6,5 t



EN 13000

m	11,0	14,9 - 15,0	18,7 - 18,8	22,6 - 22,7	26,5 - 26,6	30,4 - 30,5	34,2 - 34,4	38,1 - 38,2	42,0	m
3,0	34,725	29,525	-	-	-	-	-	-	-	3,0
3,5	28,050	24,125	22,625	-	-	-	-	-	-	3,5
4,0	23,250	21,850	20,425	-	-	-	-	-	-	4,0
4,5	19,650	18,800	17,725	16,725	-	-	-	-	-	4,5
5,0	16,850	16,375	15,575	14,800	13,425	-	-	-	-	5,0
6,0	12,850	12,750	12,375	11,875	11,375	10,925	-	-	-	6,0
7,0	10,075	10,200	10,075	9,770	9,435	9,110	8,770	-	-	7,0
8,0	7,815	8,315	8,305	8,170	7,935	7,705	7,455	-	-	8,0
9,0	6,090	6,750	6,935	6,890	6,755	6,585	6,395	5,685	-	9,0
10,0	-	5,415	5,835	5,850	5,795	5,675	5,530	4,870	4,310	10,0
12,0	-	3,510	3,980	4,275	4,290	4,270	4,195	3,605	3,110	12,0
14,0	-	-	2,660	3,040	3,200	3,225	3,205	2,670	2,215	14,0
16,0	-	-	1,710	2,095	2,380	2,425	2,435	1,940	1,525	16,0
18,0	-	-	-	1,380	1,740	1,800	1,825	1,350	0,960	18,0
20,0	-	-	-	0,820	1,195	1,295	1,330	0,870	-	20,0
22,0	-	-	-	-	0,745	0,860	0,925	-	-	22,0
24,0	-	-	-	-	-	-	0,585	-	-	24,0

80052389



85 %

m	11,0	14,9 - 15,0	18,7 - 18,8	22,6 - 22,7	26,5 - 26,6	30,4 - 30,5	34,2 - 34,4	38,1 - 38,2	42,0	m
3,0	39,850	34,750	-	-	-	-	-	-	-	3,0
3,5	31,575	27,825	25,000	-	-	-	-	-	-	3,5
4,0	25,850	22,975	22,625	-	-	-	-	-	-	4,0
4,5	21,625	21,000	20,125	18,825	-	-	-	-	-	4,5
5,0	18,425	18,150	17,525	16,850	13,425	-	-	-	-	5,0
6,0	13,575	14,000	13,725	13,350	12,925	11,700	-	-	-	6,0
7,0	10,150	10,900	11,075	10,850	10,600	10,325	9,945	-	-	7,0
8,0	7,815	8,505	9,070	9,020	8,855	8,675	8,470	-	-	8,0
9,0	6,090	6,750	7,285	7,595	7,495	7,375	7,225	6,545	-	9,0
10,0	-	5,415	5,925	6,275	6,405	6,330	6,225	5,590	5,050	10,0
12,0	-	3,510	3,980	4,350	4,690	4,755	4,705	4,130	3,655	12,0
14,0	-	-	2,660	3,040	3,395	3,520	3,605	3,075	2,635	14,0
16,0	-	-	1,710	2,095	2,455	2,575	2,685	2,270	1,860	16,0
18,0	-	-	-	1,380	1,745	1,865	1,970	1,620	1,240	18,0
20,0	-	-	-	0,820	1,195	1,310	1,415	1,095	0,730	20,0
22,0	-	-	-	-	0,745	0,860	0,965	0,665	-	22,0
24,0	-	-	-	-	-	-	0,595	-	-	24,0

80052139

# Load charts • Traglasten • Capacités de levage • Capacidades Capacità • Diagramas de carga • Таблицы грузоподъемности

Telescopic boom • Teleskopausleger • Flèche principale • Pluma telescópica • Braccio telescopico  
Lança telescópica • Телескопическая стрела



11,0 - 22,7 m



0 km/h



360°



6,5 t



EN 13000

m	11,1	15,0	18,8	22,7	m
3,0	22,600	16,325	-	-	3,0
3,5	20,250	15,150	14,725	-	3,5
4,0	16,975	14,175	14,225	-	4,0
4,5	14,450	13,300	13,200	-	4,5
5,0	11,925	12,175	11,650	11,050	5,0
6,0	8,425	9,000	9,280	8,920	6,0
7,0	6,135	6,780	7,355	7,330	7,0
8,0	4,525	5,215	5,755	5,985	8,0
9,0	3,325	4,060	4,565	4,805	9,0
10,0	-	3,165	3,645	3,865	10,0
12,0	-	1,875	2,320	2,515	12,0
14,0	-	-	1,410	1,590	14,0
16,0	-	-	0,750	0,910	16,0

80052397



85 %

m	11,1	15,0	18,8	22,7	m
3,0	22,600	16,325	-	-	3,0
3,5	21,175	15,150	14,725	-	3,5
4,0	18,900	14,175	14,225	-	4,0
4,5	16,300	13,300	13,500	-	4,5
5,0	13,900	12,850	13,050	12,625	5,0
6,0	9,955	10,550	11,125	11,400	6,0
7,0	7,370	8,045	8,625	8,860	7,0
8,0	5,555	6,280	6,855	7,070	8,0
9,0	4,200	4,970	5,510	5,740	9,0
10,0	-	3,960	4,470	4,700	10,0
12,0	-	2,505	2,975	3,175	12,0
14,0	-	-	1,950	2,125	14,0
16,0	-	-	1,200	1,365	16,0
18,0	-	-	-	0,780	18,0

80052147



# Load charts • Traglasten • Capacités de levage • Capacidades Caracità • Diagramas de carga • Таблицы грузоподъемности

Telescopic boom • Teleskopausleger • Flèche principale • Pluma telescópica • Braccio telescopico  
Lança telescópica • Телескопическая стрела



11,0 - 22,7 m



4 km/h



0°



6,5 t



EN 13000

m	11,1	15,0	18,8	22,7	m
3,0	24,850	16,050	-	-	3,0
3,5	23,175	16,050	10,675	-	3,5
4,0	21,150	16,050	10,675	-	4,0
4,5	19,025	16,050	10,675	-	4,5
5,0	17,250	15,675	10,675	8,635	5,0
6,0	14,375	14,825	10,675	8,635	6,0
7,0	11,575	12,475	10,675	8,635	7,0
8,0	8,905	9,780	10,200	8,635	8,0
9,0	6,980	7,830	8,350	8,485	9,0
10,0	-	6,370	6,920	7,090	10,0
12,0	-	4,320	4,900	5,115	12,0
14,0	-	-	3,555	3,770	14,0
16,0	-	-	2,595	2,810	16,0
18,0	-	-	-	2,090	18,0
20,0	-	-	-	1,530	20,0

80052398



85 %

m	11,1	15,0	18,8	22,7	m
3,0	24,850	16,050	-	-	3,0
3,5	23,175	16,050	10,675	-	3,5
4,0	21,150	16,050	10,675	-	4,0
4,5	19,025	16,050	10,675	-	4,5
5,0	17,250	15,675	10,675	8,635	5,0
6,0	14,375	14,825	10,675	8,635	6,0
7,0	12,225	12,825	10,675	8,635	7,0
8,0	10,350	11,100	10,450	8,635	8,0
9,0	8,815	9,585	9,905	8,635	9,0
10,0	-	8,340	8,890	8,455	10,0
12,0	-	5,040	6,600	6,850	12,0
14,0	-	-	4,215	4,435	14,0
16,0	-	-	3,275	3,510	16,0
18,0	-	-	-	2,755	18,0
20,0	-	-	-	2,140	20,0

80052148

# Load charts • Traglasten • Capacités de levage • Capacidades Capacità • Diagramas de carga • Таблицы грузоподъемности

Swingaway • Klappspitze • Extension treillis • Plumín • Falcone • Jib • Складной удлинитель стрелы



38,1 - 38,2 m



10,1 - 17,1 m



100%



360°



6,5 t



EN 13000

m	10,1 m			17,1 m			m
	0°	25°	45°	0°	25°	45°	
10,0	4,750	-	-	-	-	-	10,0
12,0	4,725	-	-	2,770	-	-	12,0
14,0	4,695	3,995	-	2,750	-	-	14,0
16,0	4,615	3,710	3,265	2,685	-	-	16,0
18,0	4,235	3,460	3,160	2,625	2,185	-	18,0
20,0	3,890	3,240	2,990	2,560	2,110	-	20,0
22,0	3,595	3,045	2,840	2,500	2,035	1,710	22,0
24,0	3,215	2,870	2,705	2,365	1,935	1,655	24,0
26,0	2,645	2,715	2,580	2,195	1,830	1,590	26,0
28,0	2,435	2,530	2,470	2,045	1,730	1,555	28,0
30,0	2,080	2,170	2,125	1,915	1,640	1,515	30,0
32,0	1,695	1,955	2,005	1,630	1,555	1,480	32,0
34,0	1,360	1,580	1,575	1,525	1,480	1,425	34,0
36,0	1,065	1,225	1,195	1,270	1,390	1,370	36,0
38,0	0,805	0,915	-	1,020	1,200	1,275	38,0
40,0	0,575	0,635	-	0,800	1,090	1,120	40,0
42,0	-	-	-	0,605	0,845	0,955	42,0
44,0	-	-	-	-	0,620	-	44,0

80052390 - 80052391



85 %

m	10,1 m			17,1 m			m
	0°	25°	45°	0°	25°	45°	
10,0	4,925	-	-	-	-	-	10,0
12,0	4,925	-	-	2,770	-	-	12,0
14,0	4,925	4,720	-	2,770	-	-	14,0
16,0	4,925	4,375	3,265	2,770	-	-	16,0
18,0	4,925	4,070	3,160	2,770	2,385	-	18,0
20,0	4,580	3,805	3,065	2,770	2,285	-	20,0
22,0	4,220	3,565	2,985	2,770	2,210	1,710	22,0
24,0	3,755	3,355	2,915	2,770	2,135	1,635	24,0
26,0	3,115	3,165	2,850	2,565	2,070	1,590	26,0
28,0	2,575	2,995	2,800	2,380	2,000	1,555	28,0
30,0	2,355	2,465	2,460	2,215	1,890	1,515	30,0
32,0	2,110	2,055	2,030	2,025	1,790	1,480	32,0
34,0	1,755	1,930	1,925	1,690	1,695	1,460	34,0
36,0	1,440	1,595	1,555	1,410	1,610	1,440	36,0
38,0	1,165	1,265	-	1,325	1,455	1,425	38,0
40,0	0,915	0,970	-	1,145	1,170	1,310	40,0
42,0	0,695	0,705	-	0,935	1,070	1,065	42,0
44,0	-	-	-	0,750	0,935	-	44,0
46,0	-	-	-	0,575	0,725	-	46,0
48,0	-	-	-	-	0,530	-	48,0

80052141 - 80052140

# Load charts • Traglasten • Capacités de levage • Capacidades Caracità • Diagramas de carga • Таблицы грузоподъемности

Swingaway • Klappspitze • Extension treillis • Plumín • Falcone • Jib • Складной удлинитель стрелы



42,0 m



10,1 - 17,1 m



6,1 m



100%



360°



6,5 t



EN 13000

m	10,1 m			17,1 m			17,1 m + 6,1 m insert			m
	0°	25°	45°	0°	25°	45°	0°	25°	45°	
12,0	3,700	-	-	-	-	-	-	-	-	12,0
14,0	3,700	-	-	2,280	-	-	1,300	-	-	14,0
16,0	3,700	3,375	-	2,280	-	-	1,300	-	-	16,0
18,0	3,675	3,260	2,965	2,280	-	-	1,300	-	-	18,0
20,0	3,450	3,005	2,840	2,280	2,040	-	1,300	-	-	20,0
22,0	3,225	2,830	2,690	2,280	1,975	-	1,300	1,455	-	22,0
24,0	2,980	2,640	2,530	2,250	1,860	1,685	1,300	1,455	-	24,0
26,0	2,640	2,475	2,390	2,045	1,755	1,630	1,300	1,405	1,205	26,0
28,0	2,190	2,335	2,265	1,910	1,660	1,560	1,300	1,310	1,175	28,0
30,0	1,765	2,060	2,135	1,785	1,550	1,485	1,300	1,210	1,155	30,0
32,0	1,390	1,635	1,725	1,565	1,465	1,400	1,220	1,115	1,095	32,0
34,0	1,060	1,265	1,300	1,260	1,375	1,325	1,120	1,050	1,020	34,0
36,0	0,775	0,945	0,930	0,985	1,305	1,255	0,940	0,975	0,950	36,0
38,0	0,520	0,655	0,600	0,735	1,110	1,190	0,720	0,885	0,885	38,0
40,0	-	-	-	0,515	0,860	1,020	0,505	0,825	0,815	40,0
42,0	-	-	-	-	0,625	0,750	-	0,645	0,765	42,0
44,0	-	-	-	-	-	0,505	-	-	0,600	44,0

80052392

80052396



85 %






m	10,1 m			17,1 m			17,1 m + 6,1 m insert			m
	0°	25°	45°	0°	25°	45°	0°	25°	45°	
12,0	3,875	-	-	-	-	-	-	-	-	12,0
14,0	3,875	-	-	2,280	-	-	1,605	-	-	14,0
16,0	3,875	3,375	-	2,280	-	-	1,605	-	-	16,0
18,0	3,780	3,260	2,965	2,280	-	-	1,605	-	-	18,0
20,0	3,450	3,005	2,840	2,280	2,040	-	1,605	-	-	20,0
22,0	3,225	2,830	2,690	2,280	2,035	-	1,605	1,540	-	22,0
24,0	2,980	2,640	2,530	2,250	1,900	1,685	1,605	1,535	-	24,0
26,0	2,770	2,475	2,390	2,045	1,780	1,630	1,560	1,435	1,205	26,0
28,0	2,590	2,335	2,265	1,910	1,670	1,570	1,465	1,315	1,175	28,0
30,0	2,210	2,205	2,135	1,785	1,550	1,490	1,330	1,210	1,155	30,0
32,0	1,810	2,045	2,045	1,650	1,465	1,400	1,220	1,115	1,095	32,0
34,0	1,460	1,665	1,685	1,555	1,375	1,325	1,120	1,050	1,020	34,0
36,0	1,155	1,315	1,295	1,375	1,305	1,255	1,030	0,975	0,950	36,0
38,0	0,885	1,015	0,950	1,120	1,230	1,190	0,955	0,885	0,885	38,0
40,0	0,645	0,745	-	0,885	1,165	1,135	0,885	0,825	0,815	40,0
42,0	-	0,505	-	0,675	0,955	1,080	0,740	0,770	0,765	42,0
44,0	-	-	-	-	0,730	0,825	0,575	0,705	0,705	44,0
46,0	-	-	-	-	0,525	-	-	0,595	0,655	46,0
48,0	-	-	-	-	-	-	-	-	0,520	48,0



80052142

80052146

# Load charts • Traglasten • Capacités de levage • Capacidades Capacità • Diagramas de carga • Таблицы грузоподъемности

Swingaway • Klappspitze • Extension treillis • Plumín • Falcone • Jib • Складной удлинитель стрелы

 38,1 - 38,2 m
  10,1 - 17,1 m
  50%
  360°
  6,5 t



EN 13000

m	10,1 m			17,1 m			m
	0°	25°	45°	0°	25°	45°	
10,0	4,750	-	-	-	-	-	10,0
12,0	4,725	-	-	2,770	-	-	12,0
14,0	4,695	3,995	-	2,750	-	-	14,0
16,0	4,115	3,710	3,265	2,685	-	-	16,0
18,0	3,670	3,460	3,160	2,625	2,185	-	18,0
20,0	2,990	3,150	2,990	2,560	2,110	-	20,0
22,0	2,435	2,810	2,835	2,360	2,035	1,710	22,0
24,0	1,965	2,360	2,515	2,050	1,935	1,655	24,0
26,0	1,565	1,915	2,115	1,660	1,830	1,590	26,0
28,0	1,225	1,530	1,700	1,320	1,615	1,555	28,0
30,0	0,905	1,185	1,340	1,030	1,525	1,515	30,0
32,0	0,625	0,875	1,010	0,770	1,220	1,385	32,0
34,0	-	0,605	0,715	0,545	0,945	1,180	34,0
36,0	-	-	-	-	0,700	0,895	36,0
38,0	-	-	-	-	-	0,640	38,0

80052394 - 80052393








85 %



m	10,1 m			17,1 m			m
	0°	25°	45°	0°	25°	45°	
10,0	4,925	-	-	-	-	-	10,0
12,0	4,925	-	-	2,770	-	-	12,0
14,0	4,925	4,720	-	2,770	-	-	14,0
16,0	4,620	4,375	3,265	2,770	-	-	16,0
18,0	3,765	4,070	3,160	2,770	2,385	-	18,0
20,0	3,280	3,525	3,065	2,770	2,285	-	20,0
22,0	2,610	2,815	2,985	2,490	2,210	1,710	22,0
24,0	2,065	2,470	2,520	2,215	2,135	1,655	24,0
26,0	1,615	1,970	2,190	1,805	2,070	1,590	26,0
28,0	1,230	1,545	1,735	1,420	1,750	1,555	28,0
30,0	0,905	1,185	1,350	1,095	1,555	1,515	30,0
32,0	0,625	0,875	1,010	0,810	1,265	1,385	32,0
34,0	-	0,605	0,715	0,565	0,975	1,205	34,0
36,0	-	-	-	-	0,715	0,910	36,0
38,0	-	-	-	-	-	0,645	38,0

80052144 - 80052143

# Load charts • Traglasten • Capacités de levage • Capacidades Caracità • Diagramas de carga • Таблицы грузоподъемности

Swingaway • Klappspitze • Extension treillis • Plumín • Falcone • Jib • Складной удлинитель стрелы

 42,0 m
  10,1 - 17,1 m
  50%
  360°
  6,5 t



EN 13000

m	10,1 m			17,1 m			m
	0°	25°	45°	0°	25°	45°	
12,0	3,700	-	-	-	-	-	12,0
14,0	3,700	-	-	2,280	-	-	14,0
16,0	3,700	3,375	-	2,280	-	-	16,0
18,0	3,190	3,260	2,965	2,280	-	-	18,0
20,0	2,535	3,005	2,840	2,280	2,040	-	20,0
22,0	1,995	2,490	2,690	2,085	1,975	-	22,0
24,0	1,540	1,980	2,250	1,640	1,860	1,685	24,0
26,0	1,155	1,545	1,780	1,260	1,755	1,630	26,0
28,0	0,820	1,170	1,370	0,930	1,550	1,560	28,0
30,0	0,530	0,845	1,010	0,645	1,205	1,485	30,0
32,0	-	0,555	0,695	-	0,900	1,215	32,0
34,0	-	-	-	-	0,630	0,900	34,0
36,0	-	-	-	-	-	0,620	36,0

80052395



85 %

m	10,1 m			17,1 m			m
	0°	25°	45°	0°	25°	45°	
12,0	3,875	-	-	-	-	-	12,0
14,0	3,875	-	-	2,280	-	-	14,0
16,0	3,875	3,375	-	2,280	-	-	16,0
18,0	3,635	3,260	2,965	2,280	-	-	18,0
20,0	2,900	3,005	2,840	2,280	2,040	-	20,0
22,0	2,300	2,820	2,690	2,280	2,035	-	22,0
24,0	1,760	2,215	2,485	1,925	1,900	1,685	24,0
26,0	1,315	1,720	1,950	1,495	1,780	1,630	26,0
28,0	0,940	1,300	1,495	1,110	1,670	1,570	28,0
30,0	0,620	0,940	1,110	0,785	1,360	1,490	30,0
32,0	-	0,630	0,770	0,505	1,025	1,335	32,0
34,0	-	-	-	-	0,730	1,000	34,0
36,0	-	-	-	-	-	0,705	36,0

80052145

# Load charts • Traglasten • Capacités de levage • Capacidades Capacità • Diagramas de carga • Таблицы грузоподъемности

## Notes • Hinweise • Notes • Notas • Note • Notas • Примечания

### The lifting capacities correspond to EN 13000:2010-10 and 85 %.

Warning: THIS CHART IS ONLY A GUIDE. The Notes below are for illustration only and should not be relied upon to operate the crane. The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

The lifting capacities likewise fulfil the requirements of ISO 4305 and DIN 15019, Part 2, with regard to stability, and DIN 15018, Part 3, and FEM 5004 with regard to strength.

85%: Capacities are in accordance with SAE J1063 and do not exceed 85% of the tipping load (SAE J1289 for outriggers 50% and 0% extended) as determined by SAE J765.

1. Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights MUST be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
2. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tyres to spread the load to a larger bearing surface.
3. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
4. For outrigger operation, ALL outriggers shall be fully extended with tyres raised free of ground before raising the boom or lifting loads.
5. Tyres shall be inflated to the recommended pressure before lifting on rubber.

### Die Tragfähigkeiten entsprechen EN 13000:2010-10 und 85 %.

WARNUNG: DIESE TABELLE IST LEDIGLICHE EINE RICHTLINIE. Die Hinweise dienen als Erklärung und sind für die Kranbedienung nicht maßgebend. Vor Inbetriebnahme des Kranes sind Traglasttabellen, Bedienungsanleitung und andere Vorschriften eingehend zu studieren.

Die Tragfähigkeitswerte erfüllen ebenfalls die Anforderungen von ISO 4305 und DIN 15019 Teil 2 bezüglich Standsicherheit sowie von DIN 15018 Teil 3 und FEM 5004 bezüglich Festigkeit.

85%: Tragkraftwerte entsprechen SAE J1063 und überschreiten nicht 85 % der Kipplast (SAE J1289 bei halb- bzw. ganz ausgefahrener Abstützung) gemäß Richtlinien SAE J765.

1. Das Gewicht der Hakenflaschen und aller Anschlagmittel muß zu der Last hinzugerechnet werden. Beim Einscheren mit erhöhten Werten ist das zusätzliche Seilgewicht als Teil der Last zu betrachten.

2. Alle Werte gelten für den Kran auf festem, ebenem Untergrund. Eventuell müssen die Stützteller oder Reifen unterlegt werden, um die Last über eine größere Abstützfläche zu verteilen.

3. Wenn Auslegerlänge oder Radius oder beide Werte zwischen den aufgeführten Werten liegen, ist die geringere der Traglasten zu wählen, die für den die nächstgrößere Ausladung oder die nächste bzw. anschließende Auslegerlänge genannt sind.

4. In abgestütztem Zustand müssen ALLE Stützen komplette ausgefahren sein. Die Reifen dürfen den Boden nicht berühren. Erst danach dürfen Lasten oder der Ausleger angehoben werden.

5. Bevor frei auf Rädern gearbeitet wird, müssen, die Reifen mit dem vorschrittsmäßigen Druck aufgefüllt werden.

### Les capacités de levage sont conformes à la norme EN 13000:2010-10 et 85 %.

ATTENTION: CE TABLEAU N'EST QU'UN GUIDE. Les notes ci-dessous sont données à titre d'exemple et ne devront pas être utilisées pour faire fonctionner la grue. Toute la documentation concernant chaque type de grue: tableau des charges, instructions de fonctionnement et toutes autres plaques d'instructions devront être lues et comprises avant de manoeuvrer la grue.

Les capacités de levage respectent également les exigences des normes ISO 4305 et DIN 15019, paragraphe 2, relatives à la stabilité, ainsi que celles des normes DIN 15018 paragraphe 3 et FEM 5004 relatives à la résistance.

85% : Les capacités de levage sont conformes à la norme SAE J1063 et ne dépassent pas 85% de la charge de basculement (SAE J1289 pour les poutres de calage déployées à 50% et 0%) tel que cela est prescrit par la norme SAE J765.

1. Les charges mentionnées dans les tableaux ne comprennent pas le poids des moufles, des élingues et autres accessoires de levage qui doit être additionné à celui de la charge levée. Lorsque le mouflage est supérieur au minimum requis le poids de l'excédent de câble doit être additionné à celui de la charge.
2. Les capacités sont données sur sol ferme et de niveau. Il peut être nécessaire d'utiliser des bastings ou des accessoires similaires afin de répartir la charge transmise au sol par les roues ou les patins de calage.
3. Lorsque la longueur de flèche ou la portée ne correspond pas aux valeurs mentionnées dans les tableaux, il convient de se référer à la valeur inférieure mentionnée pour la portée ou la longueur de flèche immédiatement supérieure.
4. Pour utilisation machine calée, les poutres de calage doivent être totalement télescopées et les roues décollées du sol avant de relever la flèche ou de lever des charges.
5. Les pneumatiques devront être gonflés aux pressions préconisées avant tout levage en libre.

### Las capacidades de carga corresponden a EN 13000:2010-10 y 85 %.

AVISO: ESTA TABLA ES SOLO UNA ORIENTACION. Las notas que aparecen al final de la misma solo sirven de ilustración y no deben ser tomadas como instrucciones para operar la grúa. La tabla de cargas, las instrucciones de operación y otras placas ilustrativas de cada grúa deben ser leídas y correctamente interpretadas antes de operar la grúa.

Asimismo los valores de carga cumplen las disposiciones de las normas ISO 4305 y DIN 15019, 2.ª parte, respecto a la estabilidad, y DIN 15018, 3.ª parte, y FEM 5004 respecto a la fuerza.

85%: La capacidad de sollevamento sono conformi alla norma SAE J1063 e non superano l'85% del carico di ribaltamento (SAE J1289 per gli stabilizzatori estesi al 50% e 0%) come prescritto dalla norma SAE J765.

1. Las cargas indicadas no incluyen el peso de los ganchos, eslingas, equipos auxiliares y aparejos de elevación. Sus pesos DEBEN ser añadidos al de la carga a elevar. Cuando se utilice un número de ramales de cable superior al necesario, el peso adicional del cable debe ser considerado como parte de la carga.
2. Todas las capacidades corresponden a la grúa situada sobre terreno firme nivelado y uniforme. La naturaleza del terreno puede hacer necesario colocar, bajo los apoyos de los estabilizadores o bajo los neumáticos, elementos estructurales que repartan la carga sobre una mayor superficie de apoyo.
3. Cuando se trabaje con longitudes de pluma o rádios, intermedios entre los valores reflejados en las tablas, se considerará la carga inmediata inferior indicada en el radio o longitud de pluma inmediato superior.
4. Para trabajos sobre estabilizadores, TODOS los estabilizadores estarán totalmente extendidos y los neumáticos sin tocar el suelo antes de elevar pluma o izar cargas.
5. Los neumáticos deberán estar inflados a la presión recomendada antes de elevar cargas sobre neumáticos.

### Le tabelle di portata sono conformi alle norme EN 13000:2010-10 e 85 %.

ATTENZIONE: QUESTA TABELLA E' SOLO UNA GUIDA. Le note qui sotto riportate sono date a titolo d'esempio e non devono essere utilizzate per far funzionare la gru.

La tabella di carico, le istruzioni d'uso ed ogni altro foglio illustrativo devono essere letti e compresi prima di manovrare la gru.

I valori delle tabelle di portata sono conformi anche ai requisiti delle norme ISO 4305 e DIN 15019, Parte 2, per quanto riguarda la stabilità, ed alle norme DIN 15018, Parte 3, e FEM 5004 per quanto riguarda il calcolo di resistenza della struttura.

85%: Capacidades de acuerdo con las Normas SAE J1063 y no exceden del 85% del momento de vuelco (Normas SAE J1289 para las cargas sobre estabilizadores extendidos al 50% o sin extender 0%) como fijan las normas SAE J765.

1. I carichi indicati nelle tavole non comprendono il peso dei ganci, dei tiranti, e di nessun altro accessorio di sollevamento che deve essere aggiunto a quello del carico sollevato. Quando il numero di funi è superiore al minimo richiesto il peso addizionale della fune deve essere aggiunto a quello del carico.
2. Tutte le capacità si intendono per la gru situata su un terreno compatto livellato e uniforme. Potrebbe rendersi necessario utilizzare dei supporti strutturali, sotto gli appoggi degli stabilizzatori o sotto i pneumatici, per ripartire il carico su una superficie di appoggio maggiore.
3. Quando la lunghezza del braccio o la portata non corrispondono ai valori riportati nelle tabelle, conviene considerare il valore inferiore riportato per il raggio di lavoro o la lunghezza del braccio immediatamente superiore.
4. Per lavoro su stabilizzatori, TUTTI gli stabilizzatori devono essere completamente estesi e i pneumatici staccati da terra prima di rialzare il braccio o di sollevare carichi.
5. I pneumatici devono essere gonfiati alla pressione raccomandata prima di sollevare carichi sopra i pneumatici.

### Capacidade de carga corresponde a EN 13000:2010-10 e 85 %.

Atenção: ESTE QUADRO SERVE APENAS DE GUIA. As notas abaixo são dadas a mero título exemplificativo e não deverão ser utilizadas para operar a grua. Toda a documentação e instruções relativas a cada tipo de grua, nas quais se incluem o diagrama de carga da grua, as respectivas instruções de operação e outras placas com instruções, têm de ser lidas e compreendidas antes de a grua ser operada.

Capacidade de elevação também satisfazer os requisitos da norma ISO 4305 e DIN 15019, Parte 2, a estabilidade relativa, bem como os da DIN 15018 3 e GEF 5004 no que diz respeito à sua resistência.

85%: As capacidades estão de acordo com a norma SAE J1063 e não excedem 85%, da carga de capotamento (SAE J1289 para os estabilizadores a 50% e a 0%) como determinado pela norma SAE J765.

1. As capacidades indicadas não incluem o peso de cadernais, eslingas, equipamento auxiliar de elevação e dispositivos de manuseamento de cargas. Os seus pesos TÊM de ser adicionados ao peso da carga a ser elevada. Sempre que for utilizada mais de que uma desmultiplicação de cabo, o peso adicional dos cabos deverá ser considerado parte da carga, devendo ser adicionado ao seu peso.
2. Todas as capacidades são indicadas para uma grua sobre uma superfície firme e nivelada. Pode ser necessário colocar suportes estruturais por baixo dos pneus ou das sapatas dos estabilizadores, para espalhar a carga por uma superfície de suporte maior.
3. Sempre que o comprimento da lança, o seu raio, ou ambos estiverem compreendidos entre os valores indicados, deve ser utilizada a carga mais baixa indicada para o raio ou para o comprimento de lança imediatamente superior.
4. Operação com estabilizadores: Antes de a lança ser erguida ou de serem elevadas cargas, TODOS os estabilizadores têm de estar totalmente estendidos, com os pneus erguidos de modo a não estarem em contacto com o solo.
5. Antes de serem elevadas cargas sobre os pneus, eles devem ser enchidos às pressões recomendadas.

### Грузоподъемность соответствует EN 13000:2010-10 и 85 %.

Внимание: ДАННАЯ СХЕМА ПРИВЕДЕНА ИСКЛЮЧИТЕЛЬНО В ОЗНАКОМИТЕЛЬНЫХ ЦЕЛЯХ. Нижеприведенные данные являются лишь пояснительными, на них не следует полагаться при работе с краном. Перед работой на кране следует прочесть и понять таблицы грузоподъемности, инструкцию по эксплуатации, а также инструктирующие таблички.

Кроме того, грузоподъемность удовлетворяет требованиям ISO 4305 и DIN 15019 (часть 2) в отношении устойчивости, и DIN 15018, (часть 3), и FEM 5004 в отношении прочности материала.

85%: Нагрузка соответствует стандарту SAE J1063 и не превышает 85% от удерживающего момента (SAE J1289 для выносных опор, выдвигаемых на 50% и на 0%) в соответствии с SAE J765.

1. Указанная нагрузка не учитывает вес крюковых блоков, канатов, вспомогательного подъемного оборудования и погрузочно/разгрузочных устройств. Их вес СЛЕДУЕТ прибавлять к массе груза. При превышении минимально необходимой запасаки канатаследует учитывать его дополнительный вес.
2. Все нагрузки указаны для крана, находящегося на прочной плоской поверхности. С целью распределения нагрузки, под выносные опоры или под колеса можно подложить поддерживающие конструкции для увеличения площади опоры.
3. Если длина стрелы, вылет (или и то и другое) находятся между указанными значениями в таблице, следует брать наименьшую нагрузку, указанную за следующим значением радиуса или длины стрелы.
4. Перед подъемом стрелы или грузов (при использовании выносных опор) следует выдвинуть ВСЕ выносные опоры на полную длину, чтобы колеса оказались над землей.
5. При подъеме с колес, шины должны быть накачаны до рекомендуемого давления.

## Superstructure



### Boom

11 m – 42 m, five-section, sequence synchronized, full-power boom with A and B mode. Maximum tip height: 44,6 m.

Boom nose: four nylatron sheaves mounted on heavy-duty tapered roller bearings with removable pin-type rope guards. Quick-reeve type boom nose.



### \*Fixed swingaway extension

10,1 m offsettable lattice swingaway extension. Offsettable 0°, 25° and 45°.

Stows alongside base boom section. Maximum tip height: 54,0 m.



### \*Bifold swingaway extension

10,1 m - 17,1 m bifold lattice swingaway extension. Offsettable at 0°, 25° and 45°.

Stows alongside base boom section. Maximum tip height: 61,1 m.



### \*Inserts

6,1 m lattice extension inserts. Installs between the boom nose and bifold extension, non-stowable. Maximum tip height: 73,6 m.



### Boom elevation

One double-acting hydraulic cylinder with integral holding valve provides elevation from -3° to +78°.



### Load moment and anti-two block system

Standard "Graphic Display" load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition. The standard Work Area Definition System allows the operator to pre-select and define safe working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding job-site obstructions.



### Cab

Full-vision, all-steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest-mounted hydraulic single-axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include: hot water heater, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe, fire extinguisher and seat belt, air conditioning.



### Slewing

Planetary swing drive with foot applied multi-disc brake. Spring applied, hydraulically released swing brake and plunger-type, one position mechanical house lock, operated from cab. \*Optional 360° mechanical swing lock. Maximum speed: 2,5 RPM.



### Counterweight

6 516 kg pinned to structure.



### Hydraulic system

Three main pumps with a combined capacity of 511 LPM.

Maximum operating pressure: 27,6 MPa.

Two individual post pressure compensated valve banks.

Return line type filter with full flow by-pass protection and service indicator.

Replaceable cartridge with micron filtration rating of 5/12/16.

640 L hyd. reservoir. Integral oil cooler. System pressure test ports.



### Hoist

Planetary reduction with automatic spring applied multi-disc wet brake.

Grooved drum. Electronic hoist drum rotation indicators, and hoist drum cable followers.

Maximum Single Line Pull: 8 363 kg.

Maximum Permissible Line Pull:

7 620 kg with standard 6X37 class rope.

7 620 kg. with optional 35X7 class rope.

Maximum Single Line Speed: 153 m/min.

Rope Construction: 6X37 EIPS IWRC,

\*35x7 Flex-X, Rotation Resistant

Rope Diameter: 19mm. Rope Length: Main Hoist: 183 m - Optional: 152 m.

Maximum Rope Stowage: 211 m.



### CraneSTAR

Crane asset management system.

## Carrier



### Carrier frame

Box section frame fabricated from high-strength, low alloy steel.

Integral outrigger housings and front/rear towing, lifting and tie down lugs.



### Outriggers

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position setting, 0%, 50% and fully extended. All steel fabricated, quick release type outrigger floats, 610 mm diameter. Maximum outrigger pad load: 41 731 kg. Controls and crane level indicator located in cab.



### Engine

**Engine (Tier III):** Cummins QSB 6.7 l diesel, six cylinders, turbocharged, 179 kW at 2500 rpm. Maximum torque: 987 Nm at 1500 rpm.

Note: Required for sale outside of North American and European Union countries

**Engine (Tier IV):** Cummins QSB 6.7 l diesel, six cylinders, turbocharged with Cummins Diesel Particulate Exhaust filter/muffler. Meets emissions per U.S.E.P.A. Tier IV and E.U. Stage III B. 179 kW at 2500 rpm. Maximum torque: 990 Nm at 1500 rpm. Fuel requirement: Maximum of 15 ppm sulphur content (Ultra Low Diesel Fuel). Note: Tier IV engine Required in North American and European Union countries.

Fuel tank capacity: 280 l.



### Transmission

Spicer powershift with 6 forward and 6 reverse speeds.

Front axle disconnect for 4 x 2 travel.



### Drive/Steer

4 x 4. Fully independent power steering:

Front: Full hydraulic steering wheel controlled.

Rear: Full hydraulic switch controlled.

Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated. Rear steer centered indicating light. 4 wheel turning radius: 7,1 m.



### Axles

Front: Drive/steer with differential and planetary reduction hubs rigid mounted to frame.

Rear: Drive/steer with differential and planetary reduction hubs pivot mounted to frame.

Automatic full hydraulic lockouts on rear axle permit 203 mm oscillation only with boom centered over the front.



### Tyres

Std. 29,5 x 25 - 28 bias ply.



### Lights

Full lighting including turn indicators, head, tail, brake and hazard warning lights.



### Maximum Speed

37 km/h.



### Gradeability (theoretical)

75% (Based on 43 830 kg GVW) 29,5 x 25 tires, pumps engaged, 42,0 m boom, bi-fold extension, aux. hoist and cable, and 59 t hookblock.



### Brakes

Full hydraulic split circuit operating on all wheels. Spring-applied, hydraulically released parking brake.



### Electrical system

Two 12 V - maintenance free batteries. 12 V starting and lighting.

Battery disconnect switch.

### \* Optional equipment

- Auxiliary Hoist Package (includes model GHP30A auxiliary hoist with electronic hoist drum rotation indicator, hoist drum cable follower, 152 m of 19 mm 35 x 7 class wire rope, auxiliary single sheave boom nose. • Auxiliary Light and Convenience Package: includes superstructure mounted amber flashing light, in-cab LMI light bar, and dual base boom mounted floodlights, rubber mat for stowage trough
- CE Mark Conformance • Cross axle differential locks (front and rear)
- Manual pump disconnect • Pintle hook - rear • 360° NYC style positive swinglock
- PAT event recorder • Hydraulic removable counterweight

# Technische Daten

## Kranoberwagen

### Ausleger

11 m – 42 m, fünfteiliger, synchronisierter und voll teleskopierbarer Ausleger im A und B Modus. Maximale Rollenhöhe: 44,6 m.

Auslegerkopf: vier Nylatron Seilscheiben sind mit abnehmbaren Bolzen-Seilsicherungen auf Hochlast-Kegelrollenlagern montiert. Auslegerklappspitze.

### \*Feststehender Klappspitzenausleger

Abwinkelbare Klappspitze in Gitterbauweise, 10,1 m Länge. Abwinkelung 0°, 25° und 45°. Seitlich am Ausleger montierbar. Maximale Arbeitshöhe : 54,0 m.

### \*Doppelklappspitze

Abwinkelbare Doppel-Klappspitze in Gitterbauweise, 10,1 - 17,1 m. Abwinkelbar 0°, 25°, 45°, an den Teleskop-Grundausleger anklappbar. Maximale Arbeitshöhe : 61,1 m.

### \*Teleskopklappspitze

Zwischenstücke in Gitterbauweise mit einer Länge von 6,1 m. Anbau zwischen Auslegerkopf und Doppel-Klappspitze, nicht am Kran verstaubar. Maximale Rollenhöhe: 73,6 m.

### Wippwerk

Ein doppelt wirkender Hydraulikzylinder mit integriertem Sicherheits-Rückschlagventil. Auslegerstellwinkel von -3° bis +78°.

### Lastmoment- und Hubendschalter-System

System für Lastmomentbegrenzung über Standard-„Grafikdisplay“ und Anti-Two Block System mit akustisch-optischer Warnung und Steuerhebelsperre. Diese Systeme bieten elektronische Anzeige von Auslegerwinkel, Auslegerlänge, Radius, Arbeitshöhe, relativem Lastmoment, maximal zulässiger Last, Hakenlast und Hubendschaltungs-Vorrichtung. Das zur Standardausrüstung gehörende System zur Arbeitsbereichsbegrenzung ermöglicht es dem Bediener, sichere Arbeitsbereiche vorzugeben und zu definieren. Nähert sich der Kran der Begrenzung des sicheren Arbeitsbereichs, wird der Bediener akustisch und optisch gewarnt, wodurch Kollisionen am Einsatzort vermieden werden.

### Kabine

Rundsichtkabine, in Stahlblech ausgeführt, mit Schalldämmung und getöntem Sicherheitsglas. Komfortsitz mit in den Armlehnen integrierten, einachsigen verstellbaren Steuerhebeln. Armaturenbrett mit Anzeigen für alle Motorfunktionen. Weitere Standardausrüstung: Heißwasserheizung, Umluftgebläse, Schiebefenster seitlich und hinten, Dachschiebefenster mit elektrischem Scheibenwischer und Sonnenschutz, elektrischer Frontscheibenwischer/Waschanlage, Feuerlöscher und Sicherheitsgurt, Klimaanlage.

### Schwenkwerk

Drehwerk mit Planetengetriebe mit per Fuß zu bedienender Mehrscheibenbremse. Federgetriebene, hydraulisch zu lösende Drehwerkbremse und Stoßelform. Gehäusefixierung, bedienbar von Kabine aus. \*Optionale mechanische 360° Schwenkwerkverriegelung. Max. Drehgeschwindigkeit: 2,5 RPM.

### Gegengewicht

6 516 kg, mit dem Oberwagen verbolzt.

### Hydrauliksystem

Drei Hauptpumpen mit einer Gesamtfördermenge von 511 l/Min. Maximaler Betriebsdruck: 27,6 MPa. Zwei einzelne druckkompensierte Ventilblöcke. Filter mit Vollstrom-Bypassschutz und Wartungsanzeige im Rücklauf. Wechselpatrone mit einer Filtrierleistung von 5/12/16 Mikron. Fassungsvermögen des Hydrauliköltanks: 640 Liter. Integrierter Ölkühler. Systemdruck-Prüfanschlüsse.

### Hubwerk

Planetengeräte mit automatischer Federspeicher-Mehrscheibenbremse im Ölbad. Gerillte Seiltrommel. Elektronischer Hubwerksumdrehungs-Melder sowie Seilführungsbügel.

Maximaler Seilzug mit einfachem Strang: • Erste Lage : 8 363 kg  
Maximal zulässiger Seilzug: 7 620 kg mit Seil Kategorie 6 x 37

7 620 kg mit Seil Kategorie 35x7

Maximale Seilgeschwindigkeit mit einfachem Strang: 153 m/Min.

Seilaufbau : 6X36 EIPS IWRC. \*35x7 Flex-X, drallfrei.

Seildurchmesser : 19 mm. Seillänge: Haupthubwerk : 183 m. Hilfshubwerk : 152 m.

Hubwinde für max. 211 m Seil ausgelegt.

### CraneSTAR

Flottenmanagementsystem.

## Kranunterwagen

### Rahmen

Kastenprofilrahmen aus hochfestem Feinkornstahl. Integrierte Auslegerbalkengehäuse und vordere/hintere Greifer zum Schleppen, Heben und Verzurren.

### Abstützung

Vier hydraulisch teleskopierbare, einteilige Kastenprofil-Abstützträger mit innen geführten Stützzyllindern und integrierten Halteventilen. Drei Stellungen: 0%, 50% und voll ausgefahren. Abstützteller mit Schnellverriegelung aus Stahl, Durchmesser 610 mm, maximaler Stützdruck per Teller 41 731 kg. Bedienelemente und Nivellierungsanzeige in der Kabine.

### Motor

**Motor (Tier III):** Cummins QSB 6,7 L Dieselmotor, sechs Zylinder, Turbolader, 179 kW bei 2500 U/min. Maximales Drehmoment: 987 Nm bei 1500 U/min. Hinweis: Zum Verkauf außerhalb Europas und Nordamerikas bestimmt.

**Motor (Tier IV):** Cummins QSB 6,7 L Dieselmotor, sechs Zylinder, mit Turbolader und Cummins-Dieselschmutzpartikelfilter/-dämpfer. Entspricht Emissionsvorgaben nach U.S.E.P.A. Tier IV und E.U. Stage III B. 179 kW bei 2500 U/min. Maximales Drehmoment: 990 Nm bei 1500 U/min. Treibstoffanforderung: Maximal 15 ppm Schwefelanteil (besonders schwefelarmer Dieseldieselkraftstoff). Hinweis: Diese Motoren sind zum Verkauf in Nordamerika und der Europäischen Union bestimmt.

Kraftstoffbehälter: 280 l

### Getriebe

Spicer Powershiftdieselgetriebe, 6 Vorwärtsgänge und 6 Rückwärtsgänge. Abkoppelung der Vorderachse für Fahrtrieb 4 x 2.

### Antrieb/Lenkung

4 x 4. Separate Servolenkung :

Vorne : Vollhydraulisch, über Lenkrad betätigt.

Hinten : Vollhydraulisch, über Schalter betätigt.

Stellt vier stufenlos veränderliche Lenkanten bereit : Nur vorne, nur hinten, Hundegang und koordiniert. Kontrollleuchte für Mittelstellung Hinterachslenkung. 4 Rad-Wenderadius: 7,1 m.

### Achslinien

Vorne: Antrieb/Lenkung über Differenzial und Planetenuntersetzungsgetriebe, fest mit dem Rahmen verbunden.

Hinten: Antrieb/Lenkung über Differenzial und Planetenuntersetzungsgetriebe, pendelnd mit dem Rahmen verbunden.

Die automatische und vollhydraulische Hinterachssperre ermöglicht eine 203 mm Schwenkung mit dem Ausleger vorne in der Mitte.

### Bereifung

29,5 x 25 – 28-lagig, Diagonalreifen.

### Beleuchtung

Volle Beleuchtungsanlage mit Blinkleuchten, Scheinwerfern, Schluss- und Bremsleuchten und Warnblinkanlage.

### Höchstgeschwindigkeit

37 km/h.

### Steigvermögen (theoretisch)

75 % (basierend auf: Bruttogewicht des Fahrzeugs 43.830 kg, Reifengröße 29,5 x 25, Pumpen aktiviert, Ausleger 42,0 m, Doppelklappspitze, Hilfshubwerk mit Seil und 59 t Hakenflasche).

### Bremsen

Vollhydraulische Bremsen mit geteilten Bremskreisen, auf alle Räder wirkend. Hydraulisch lösbare Federspeicher-Feststellbremse, auf die Vorderachse wirkend.

### Elektrische Anlage

Zwei wartungsfreie 12-Volt-Batterien. 12-Volt-Starter und Beleuchtungsanlage. Batterie-Trennschalter.

### \* Zusatzausrüstung

• Zusätzliche Gewindeausrüstung: inkl. GHP30A Hilfswinde mit elektronischer Gewindetrommelrotationsanzeige, Windetrommelnachlaufregler, 152 m langem Drahtseil (19 mm) Klasse 35 x 7, Hilfsauslegerkopf mit Einzel-Seilscheibe • Zusatzausrüstung für Beleuchtung: inkl. an Oberbau befestigte Blinkleuchte (Farbe: orange) kabineninterne LMI-Lichtbalken und zwei am Ausleger-Grundstück montierte Flutlichter, Gummimatte für Stauraum • CE-zertifiziert • Querdifferenzialsperren (vorne und hinten) • Handpumpe Trennung • Fanghaken - hinten • Schwenkwerksverriegelung, 360 Grad, Typ NYC • PAT Ereignisspeicher • Hydraulisch entfernbares Gegengewicht

\*Weitere Zusatzausrüstungen auf Anfrage.



## Superstructure



### Flèche

Flèche à télescopage entièrement hydraulique de 11 m - 42 m, à cinq sections, synchronisée et séquencée, avec modes A et B. Hauteur maximum de la tête de flèche : 44,6 m.

Tête de flèche : quatre poulies Nylatron montées sur des roulements à rouleaux coniques à haute résistance avec anti-dérailleurs amovibles. Tête de flèche à mouflage rapide.



### \*Extension treillis fixe

Extension treillis à repliage latéral de 10,1 m avec possibilité de déport à 0°, 25° et 45°. Repliage le long de l'élément de flèche de base.

Hauteur max. de tête d'extension : 54,0 m.



### \*Extension treillis à double repliage

Extension treillis à double repliage latéral de 10,1 à 17,1 m avec possibilité de déport à 0°, 25° et 45°. Repliage le long de l'élément de flèche de base.

Hauteur max. de tête d'extension : 61,1 m.



### \*Éléments intermédiaires pour extension de treillis

Éléments intermédiaires de 6,1 m pour extension treillis installés entre la tête de flèche principale et l'extension treillis double (éléments transportés séparément).

Hauteur maximum d'extension treillis : 73,6 m



### Relevage

Un vérin hydraulique double effet avec clapet anti-retour intégré.

Angles de relevage - 3° à + 78°.



### Contrôleur d'état de charge et dispositif de fin de course haute crochet indépendant

En standard, contrôleur d'état de charge à affichage graphique et dispositif de course haute avec alarmes sonores et visuelles et dispositif de coupure des mouvements.

Ces dispositifs donnent un affichage graphique de l'angle et de la longueur de flèche, de la portée, de la hauteur de tête de flèche, du moment relatif, de la charge maximum autorisée, de la charge levée et de sécurité de fin de course haute crochet. Le dispositif standard de limitation du domaine d'évolution (Work Area Definition System) permet à l'utilisateur de pré-définir et limiter le domaine de travail autorisé.



### Cabine

Cabine panoramique tout acier avec isolation sonore et vitrages de sécurité teintés. Siège ergonomique équipé de manipulateurs multidirectionnels électriques doubles-axes intégrés aux accoudoirs. Tableau de bord équipé de tous les instruments nécessaires à la surveillance du moteur. Autres équipements montés en standard : colonne de direction réglable en inclinaison, chauffage de cabine à eau chaude, ventilateur, vitrages coulissants latéraux et arrière, vitre de toit coulissante équipée d'un essuie-glace et d'un rideau pare-soleil, essuie-glace et lave-glace de pare-brise, extincteur et ceinture de sécurité, air conditionné.



### Orientation

Orientation à planétaires et frein multi-disques à commande au pied. Frein à serrage par ressorts et desserrage hydraulique, verrouillage mécanique sur une position, à poussoir, actionné depuis la cabine. \*Orientation mécanique à 360° optionnelle.

Vitesse maximale : 2,5 tpm.



### Contrepoids

6 516 kg broché à la structure.



### Système hydraulique

Trois pompes principales offrant une capacité combinée de 511 l/min. Pression maximum de service : 27,6 MPa. Deux distributeurs hydrauliques indépendants avec compensateurs de pression. Filtre hydraulique sur circuit de retour avec protection par dérivation plein débit et indicateur de colmatage. Cartouche amovible avec classe de filtration micrométrique 5/12/16. Réservoir hydraulique de 640 litres. Prises de pressions rapides.



### Treuil

Entraînement par réducteur à planétaires et frein multi-disques immergés. Tambour rainuré. Indicateurs électroniques de rotation du treuil et dispositif presse-câble.

Efforts max. sur brin simple : 8 363 kg

Effort max. autorisé sur brin simple : 7 620 kg avec câble standard 6x37

7 620 kg avec câble optionnel 35x7

Vitesse max. de déroulement : 153 m/min.

Câble type 6 x 37 EIPS IWRC ou \*35x7 Flex-X, antigiratoires. Diamètre : 19 mm.

Longueur de câble : Treuil principal : 183 m. Treuil auxiliaire : 152 m

Capacité maximum de câble : 211 m



### CraneSTAR

Système de gestion de parc de grues.

## Châssis



### Châssis

Châssis caissonné mécanosoudé en acier à haute limite élastique. Carters intégrés pour les dispositifs de calage et anneaux avant/arrière pour remorquage, levage et fixation.



### Dispositif de calage

Quatre poutres de calage hydrauliques télescopiques avec vérins inversés et clapets anti-retour intégrés. Calage autorisé en trois positions : 0 - 50% et 100%. Patins d'appui carrés (610 mm de diamètre) en acier avec dispositifs de fixation rapide.

Charge maximum sur appui : 47 731 kg. Commandes de calage et indicateur de niveau dans la cabine.



### Moteur

**Moteur (Tier III)** : Cummins QSB 6,7 L diesel, six cylindres, à turbocompresseur, 179 kW à 2500 tr/min. Couple maximal : 987 Nm à 1500 tr/min. Note : Requis pour les ventes hors des pays d'Amérique du Nord et de l'Union européenne.

**Moteur (Tier IV)** : Cummins QSB 6,7 L diesel, six cylindres, à turbocompresseur, avec filtre/silencieux d'échappement à particules Cummins Diesel. Respecte les exigences en matière d'émissions selon l'U.S.E.P.A. Tier IV et U.E. Phase III B. 179 kW à 2500 tr/min. Couple maximal : 990 Nm à 1500 tr/min. Exigences relatives au carburant : Maximum de 15 ppm de teneur en soufre (carburant diesel à très faible teneur). Note : Moteur Tier IV requis dans les pays d'Amérique du Nord et de l'Union européenne.

Capacité du réservoir : env. 280 l.



### Boîte de vitesses

Boîte de vitesses Spicer à 6 rapports avant et 6 rapports arrière. Débrayage de pont avant pour déplacement en 4 x 2.



### Direction/Transmission

4 x 4. Direction hydraulique indépendante :

Avant : Direction hydraulique indépendante actionnée par volant.

Arrière : Direction hydraulique indépendante commandée par interrupteur au tableau de bord.

Combinaisons infinies des quatre modes de direction : avant uniquement, arrière uniquement, marche en crabe et mode coordonné. Indicateur de direction arrière centrée. Rayon de braquage des 4 roues : 7,1 m.



### Ponts

Avant : Pont moto-directeur avec différentiel et réductions à planétaires dans les moyeux fixé de manière rigide au châssis.

Arrière : Pont moto-directeur avec différentiel et réductions à planétaires dans les moyeux articulé au châssis

Verrouillage automatique hydraulique sur l'essieu arrière permettant une oscillation de 203 mm quand la flèche est centrée au-dessus de l'avant.



### Pneumatiques

29,5 x 25 à carcasse conventionnelle 28 plis.



### Eclairage

Eclairage complet incluant les clignotants, ainsi que les feux avant, arrière, de freinage et de détresse.



### Vitesse maximum

37 km/h.



### Aptitude (théorique) en pente

75 % pour un véhicule d'un poids total de 43 830 kg, équipé de pneus 29,5 x 25, pompes enclenchées, d'une flèche de 42,0 m, d'une extension treillis double, d'un treuil auxiliaire, de câbles et d'un moufle de 59 t.



### Freins

Freinage sur toutes les roues avec circuit scindé. Frein de stationnement à serrage par ressorts et desserrage hydraulique sur l'essieu avant.



### Installation électrique

Deux batteries sans entretien de 12 Volts pour l'éclairage et le démarrage.

Coupe circuit. Interrupteur coupe-circuit.

### \* Equipements optionnels

- Treuil auxiliaire (modèle GHP30A) avec indicateur électronique de rotation du tambour, dispositif presse-câble sur le tambour, 152 m de câble métallique de 19 mm de classe 35 x 7, une tête de flèche auxiliaire à réa simple.
- Ensemble d'éclairage auxiliaire et d'accessoires : gyrophare orange sur la superstructure, barrette d'affichage CEC en cabine, deux projecteurs installés sur la flèche de base, tapis de caoutchouc pour le coffre de stockage.
- Conformité CE
- Différentiels inter-roues (avant et arrière)
- Débrayage manuel de pompe
- Crochet de remorquage arrière
- Verrouillage mécanique d'orientation 360° (type Ville de New York)
- Enregistreur d'événement PAT
- Contrepoids à retrait hydraulique

\* Autres équipements optionnels sur demande.

# Características técnicas

## Superestructura



### Pluma

Pluma totalmente hidráulica con modo A y B, con secuencia sincronizada, de 11 m a 42 m y cinco secciones. Altura máxima en punta: 44,6 m.  
Punta de la pluma: cuatro poleas de nylon montadas sobre rodamientos de rodillos cónicos de alta resistencia con protecciones de cable extraíbles con pasador. Punta de pluma de paso rápido.



### \*Plumín fijo abatible

Plumín de celosía de 10,1 m. Angulable 0°, 25° y 45°. Abatible en el lateral de la pluma. Altura máxima en punta al suelo: 54,0 m.



### \*Plumín articulado abatible

Plumín articulado de celosía plegable en dos secciones de 10,1 m - 17,1 m. Angulable 0°, 25° y 45°. Abatible en el lateral de la pluma. Altura máxima de la punta al suelo: 61,1 m.



### \*Extensión de pluma

Secciones de intermedias de 6,1 m. Se colocan entre la cabeza de la pluma y el plumín articulado en dos secciones. No pueden abatirse en el lateral de la pluma. Altura máxima en punta al suelo: 73,6 m.



### Elevación de pluma

Un cilindro hidráulico de doble efecto con válvula de retención integrada logrando elevación entre -3° y +78°.



### Sistema indicador del momento de carga y de final de carrera del gancho

Momento de carga estándar con indicador gráfico y sistema antibloqueo doble con señal de aviso sonora y visual y bloqueo de la palanca de control. Estos sistemas proporcionan la visualización en una pantalla electrónica del ángulo, longitud, radio, altura de la punta al suelo, momento de carga relativo, carga máxima admisible, indicación de carga y aviso del estado del bloqueo de final de carrera del gancho. El sistema de definición del área de trabajo estándar permite al operario preseleccionar y definir zonas de trabajo seguras. Si la grúa se acerca a los límites predefinidos, una señal de aviso sonora y visual ayuda al operario a evitar obstrucciones en el lugar de la obra.



### Cabina

Cabina de visión panorámica, toda ella fabricada en acero con revestimiento acústico y cristal de seguridad tintado por completo. Asiento de lujo que incorpora los controles eléctricos de operación montados en reposabrazos. El panel de instrumentos incorpora indicadores para todas las funciones del motor. Forman parte del equipo de serie: volante regulable en altura, calefacción de agua, ventilador para la cabina, ventanillas laterales y traseras deslizantes, ventana superior abatible con limpia-parabrisas eléctrico y parasol, extintor y cinturón de seguridad, aire acondicionado.



### Rotación

Giro deslizante mediante planetarios con freno de discos múltiples accionado por pedal. Freno de giro de desconexión hidráulica, accionado mediante resorte. Bloqueo interno mecánico de una única posición accionado desde la cabina. \*Rotación mecánica de 360° opcional. Velocidad máxima: 2,5 rpm.



### Contrapeso

Sujeto a la estructura mediante bulones. 6 516 kg. de peso.



### Sistema hidráulico

Tres bombas principales con una capacidad combinada de 511 lmp. Presión de funcionamiento máxima: 27,6 MPa. Dos bancos de válvulas de presión compensada individuales. Filtro con línea de retorno con protección total ante derivaciones de flujo e indicador de mantenimiento. Cartucho reemplazable con una tasa de micro-filtrado de 5/12/16. Depósito hidráulico de 640 L. Refrigerador de aceite integrado. Puertos de prueba de presión del sistema.



### Mecanismo de elevación principal y auxiliar

Reducción planetaria con freno automático de discos múltiples aplicado mediante resorte. Tambor acanalado con indicadores electrónicos de rotación del tambor. Tensión máxima de un solo ramal de cable: 8 363 kg  
Tracción máxima admisible del cable: 7 620 kg con cable de clase 6x37.  
7 620 kg con cable 35 x 7.

Velocidad máxima de un solo cable: 153 m/min  
Cable : 6x36 EIPS IWRC, flexible especial o \*35x7 Flex-X, antirotación.  
Diámetro del cable : 19 mm. Longitud del cable : Cabrestante principal: 183 m.  
Auxiliar: 152 m. Capacidad máxima de cable en el tambor : 211 m.



### CraneSTAR

Sistema de gestión de flotas de grúas

## Chasis



### Bastidor

Estructura tipo cajón fabricada en acero de alta resistencia y baja aleación. Encajaduras de estabilizadores integradas y orejetas de elevación y amarre y tracción delantera/trasera.



### Estabilizadores

Cuatro estabilizadores hidráulicos telescópicos de doble viga con gatos invertidos y válvulas de retención integradas. Tres ajustes de posición: 0%, 50% y totalmente extendidos. Base de los estabilizadores de montaje rápido, fabricadas completamente en acero de 610 mm. de diámetro. Carga máxima sobre cada placa de apoyo: 41 731 kg. Controles e indicador del nivel de la grúa situados en la cabina.



### Motor

**Motor (Tier III):** Cummins QSB 6,7 L diésel, seis cilindros, turboalimentado, 179 kW a 2500 rpm. Par máximo: 987 Nm a 1500 rpm. Nota: Requerido en ventas fuera de los países norteamericanos y de la Unión Europea.

**Motor (Tier IV):** Cummins QSB 6,7 L diésel, seis cilindros, turboalimentado con silenciador/filtro de partículas diesel Cummins. Cumple los estándares de emisiones Tier IV de la U.S.E.P.A. y Fase IIIB de la U.E. 179 kW a 2500 rpm. Par máximo: 990 Nm a 1500 rpm. Exigencias de combustible: máximo de 15 ppm de contenido de azufre (diésel de muy bajo contenido en azufre). Nota: motor Tier IV requerido en los países norteamericanos y de la Unión Europea.

Capacidad del depósito de combustible: 280 litros



### Transmisión

Spicer powershift con 6 marchas de avance y otras 6 de marcha atrás. Desconexión del eje frontal para un desplazamiento 4 x 2.



### Tracción/Dirección

4 x 4.

Dirección totalmente asistida independiente entre ejes :  
Delantera : Totalmente hidráulica, controlada por volante.  
Trasera : Totalmente hidráulica, controlada por interruptor.  
Infinitamente variable en los 4 modos de dirección principales : sólo delantera, sólo trasera, control de giro (tipo cangrejo) y coordinada. Piloto indicador centrado de la dirección trasera. Radio de giro de las 4 ruedas: 7,1 m.



### Ejes

Delantero : Tracción/dirección con reducción planetaria y diferencial, montaje rígido en la estructura.

Trasero : Tracción/dirección con reducción planetaria y diferencial, montaje pivotante en la estructura.

Los bloqueos automáticos totalmente hidráulicos del eje trasero permiten una oscilación de 203 mm solo cuando la pluma está centrada en la parte frontal.



### Neumáticos

29,5 x 25 – 28 lonas.



### Luces

Iluminación completa que incluye intermitentes, indicadores superiores, traseros, de freno y de peligro.



### Velocidad máxima

37 km/h.



### Inclinación (teórica)

75 % basado en peso bruto del vehículo de 43 830 kg, neumáticos de 29,5 x 25, bombas dedicadas, pluma de 42,0 m, extensión articulada, cable y cabrestante aux. y gancho de 59 t.



### Frenos

Circuito de frenos totalmente hidráulico operando sobre todas las ruedas.

Freno de estacionamiento montado sobre el eje delantero que se acciona mediante resorte y se libera hidráulicamente.



### Sistema eléctrico

Dos baterías de 12 V sin mantenimiento. Arranque e iluminación de 12V. Desconexión de la batería

### \*Equipamiento Opcional

- Paquete de cabrestante auxiliar (incluye cabrestante auxiliar modelo GHP30A con indicador electrónico de rotación del tambor del cabrestante, guía del cable del tambor del cabrestante, cable de acero de clase 35 x 7 de 19 mm de 152 m, punta de pluma auxiliar de una sola polea.
- Paquete iluminación auxiliar y de conveniencia: incluye luz ámbar intermitente montada en la superestructura, barra de iluminación del indicador de momento de carga dentro de la cabina, dos focos montados en el tramo base de la pluma, alfombrilla de goma para el hueco de almacenaje
- Conformidad con el marcado CE
- Bloqueos diferenciales de eje cruzado (delantero y trasero)
- Desconexión manual de la bomba
- Gancho de remolque - trasero
- Bloqueo de giro en 360° Tipo NYC
- Registro de eventos PAT
- Contrapeso de extracción hidráulica

\* Indica equipo opcional. Otros equipos opcionales bajo demanda.

## Sovrastruttura



### Braccio

Braccio full power a cinque sezioni sincronizzate con due modalità di estensione A e B, lunghezza 11 m – 42 m. Altezza massima in punta: 44,6 m.  
 Testa braccio: quattro pulegge in nylatron montate su robusti cuscinetti a rulli conici per impieghi pesanti con perni di protezione delle funi rimovibili.  
 Testa braccio con allestimento rapido della fune.



### \*Jib ripiegabile

Jib tralicciato inclinabile da 10,1 m. Inclinabile a 0°, 25° e 45°.  
 Alloggiabile e trasportabile lungo la sezione di base del braccio telescopico  
 Altezza massima in punta: 54,0 m.



### \*Jib doppio ripiegabile

Jib tralicciato ripieghevole inclinabile da 10,1 - 17,1 m. Inclinabile a 0°, 25° e 45°.  
 Alloggiabile e trasportabile lungo la sezione di base del braccio telescopico  
 Altezza massima in punta: 61,1 m.



### \*Sezioni intermedie

Sezioni intermedie tralicciate da 6,1 m. Installabili tra la punta del braccio ed il falcone, non alloggiabili lungo il braccio. Altezza massima in punta: 73,6 m.



### Sollevamento braccio

Un cilindro idraulico a doppia azione con valvola di blocco integrale fornisce il sollevamento braccio con angolo da -3° a +78°.



### Limitatore di carico e finecorsa

Momento di carico standard con display grafico, sistema anti-doppio bloccaggio con allarme e bloccaggio dei movimenti.  
 Visualizzazione grafica dell'angolo del braccio, lunghezza, raggio, altezza in punta, indicazione del carico e del carico ammissibile massimo. Il sistema standard di definizione dell'area di lavoro permette all'operatore di preselezionare e definire le aree di lavoro sicure. Se l'autogru si avvicina ai limiti preimpostati, degli allarmi acustici e visivi aiutano l'operatore ad evitare gli ostacoli sul posto di lavoro.



### Cabina

Ottima visibilità, costruita completamente in acciaio, insonorizzata. Il sedile ergonomico è dotato di comandi elettrici a doppio asse integrati nei braccioli. Il cruscotto incorpora la strumentazione per tutte le funzioni del motore. Altre caratteristiche standard comprendono: volante inclinabile, riscaldamento ad acqua, ventola per la circolazione dell'aria nella cabina, finestrini scorrevoli, lava/tergicristallo elettrico, estintore e cintura di sicurezza, aria condizionata.



### Rotazione

Comando di rotazione planetario con freno a disco multiplo azionato a pedale. Frenorotante azionato a molla, rilasciato idraulicamente e arresto meccanico a una posizione azionato dalla cabina. \*Rotazione meccanica opzionale a 360°. Velocità massima: 2,5 giri/minuto.



### Contrappeso

6 516 kg, fissato mediante perni alla torretta.



### Impianto idraulico

Tre pompe principali con capacità totale di 511 l/min. Pressione operativa massima: 27,6 Mpa. Valvola di controllo principale a due sezioni a pressione compensata. Filtro sulla linea di ritorno non bypassabile e indicatore di manutenzione. Cartuccia sostituibile con valore di filtraggio micronico di 5/12/16. Capacità del serbatoio idraulico 640 l. Scambiatore di calore per raffreddamento olio idraulico. Prese per la misura della pressione del sistema.



### Specifiche dell'organo principale e ausiliario

Riduttore planetario e freno negativo multidischi ad azionamento automatico. Tamburo scanalato. Indicatore elettronico di rotazione del tamburo sul joystick e guide per cavo tamburo argano.

Tiro massimo con singola fune : 8 363 kg  
 Tiro massimo permesso sulla fune : 7 620 kg con fune di classe 6X37.  
 7 620 kg con fune di classe 35X7.

Velocità massima con singola fune : 153 m/min.

Costituzione della fune: 6 x 37 EIPS IWRC,  
 \*35x7 Flex-X, antigiro.

Diametro fune : 19 mm.

Lunghezza della fune argano principale: 183 m - optional 152 m  
 Massima capacità di avvolgimento della fune sul tamburo: 211 m.



### CraneSTAR

Sistema di gestione della flotta gru.

## Carro



### Telaio

Costruzione in sezioni scatolate realizzate in acciaio ad alta resistenza. Casse stabilizzatori integrate e agganci anteriori/posteriori per traino, sollevamento e fissaggio.



### Stabilizzatori

Quattro stabilizzatori a sfilo singolo ed azionamento idraulico; cilindri verticali a stelo rovesciato con valvole di blocco integrali. Tre configurazioni di lavoro: 0%, 50% e completamente estesi. Completamente realizzati in acciaio ad alta resistenza, piatti stabilizzatori diametro 610 mm a sgancio rapido. Carico massimo su piatti stabilizzatori: 41 731 kg.

Comandi e indicatore di livellamento della gru situati all'interno della cabina.



### Motore

**Motore (Tier III / Euromot 3A):** Cummins QSB 6.7 L diesel, sei cilindri, sovralimentato con turbocompressore, 179 kW a 2500 giri/min. Coppia massima: 987 Nm a 1500 giri/min. Nota: richiesto per vendita al di fuori dei paesi del Nord America e dell'Unione Europea.

**Motore (Tier IV / Euromot 3B):** Cummins QSB 6.7 L diesel, sei cilindri, sovralimentato con turbocompressore, con sistema di post-trattamento costituito dal filtro antiparticolato Cummins DPF, 179 kW a 2500 giri/min. Coppia massima: 990 Nm a 1500 giri/min. Conforme ai requisiti richiesti per le emissioni secondo E.P.A. (United States) Tier IV e EUROMOT (Comunità Europea) Stadio 3B. Carburante richiesto: diesel con contenuto massimo di zolfo 15 ppm (Ultra Low Diesel Fuel). Nota: il motore Tier IV / Euromot 3B è richiesto nei paesi del Nord America e dell'Unione Europea.

Capacità serbatoio: 280 l



### Cambio

Cambio a 6 rapporti (3 marce x 2 velocità sia in avanti che in retromarcia). Possibilità di esclusione assale anteriore per marcia 4 x 2.



### Trazione/Sterzo

4 x 4. Idroguida completamente indipendente:

Anteriore: completamente idraulico azionato tramite il volante.

Posteriore: completamente idraulico azionato con pulsante.

4 modalità di sterzata: solo anteriore, solo posteriore, a granchio e combinata.

Indicatore di sterzata posteriore centrata. Raggio di sterzata delle 4 ruote: 7,1 m.



### Assali

Anteriore : Montato rigido sul telaio, trazione con differenziale e mozzi di riduzione planetaria.

Posteriore : Su culla oscillante, trazione con differenziale e mozzi di riduzione planetaria montati.

Blocchi idraulici totali automatici sull'assale posteriore per un'oscillazione di mm. 203 solo con il braccio centrato sulla parte anteriore.



### Pneumatici

29,5 x 25 - 28 strati trasversali.



### Luci

Illuminazione completa compresi indicatori di direzione, luci anteriori, posteriori, freno e luci di segnalazione pericolo.



### Velocità massima

37 km/h.



### Pendenza (teorica)

75 % calcolato su peso lordo di 43 830 kg, pneumatici 29,5 x 25, pompe innescate, braccio da 42,0 m, falcone ripiegabile, argano e cavi ausiliari, bozzello da 59 t.



### Freni

Doppio circuito completamente idraulico agente su tutte le ruote.

Freno di stazionamento negativo ad azionamento idraulico agente sull'asse anteriore.



### Impianto elettrico

2 batterie da 12 V. Avviamento e illuminazione a 12 V. Interruttore di disconnessione batteria.

### \* Equipaggiamenti opzionali

- Pacchetto ausiliario di sollevamento (comprende l'argano ausiliario GHP30A con indicatore elettronico di rotazione del tamburo, con cedente cavo tamburo di sollevamento, 152 m di fune metallica da 19 mm classe 35 x 7, testa braccio ausiliaria ad una puleggia)
- Pacchetto luci ausiliario: comprende luce gialla lampeggiante montata in sovrastruttura, barra luminosa LMI in cabina e riflettori doppi montati sul braccio di base, tappetino in gomma per vano di stivaggio
- Marchio CE di conformità
- Blocchi differenziale asse trasversale (anteriore e posteriore)
- Disconnessione manuale della pompa
- Gancio di rimorchio posteriore
- Blocco della rotazione a 360° tipo NYC
- Registratore eventi PAT
- Rimozione idraulica del contrappeso

\* Altri a richiesta.

# Características

## Superestrutura

### Lança

Lança de potência completa de 11 m – 42 m, cinco secções, sequência sincronizada, com modo A e B. Altura máxima da ponta: 44,6 m.

Cabeça da lança: quatro roldanas nylatron em rolamentos de esferas reforçados para trabalhos pesados com proteções de cordas amovíveis tipo pino. Nariz de lança tipo Quick-reeve.

### \*Extensão swingaway fixa

Extensão swingaway treliçada com angulação de 10,1 m. Angulações: 0°, 25° e 45°. Pode ser arrumada ao longo da secção de base da lança. Altura máx. da cabeça da extensão: 54,0 m.

### \*Extensão swingaway de dobragem dupla

Extensão swingaway de 10,1 a 17,1 m da estrutura oscilante bipartida. Angulações de 0°, 25° e 45°. Acondiciona-se ao longo da secção da lança base. Altura máx. da cabeça da extensão: 61,1 m.

### \*Extensões de lança

Extensões de lança treliçada de 6,1 m. Instalação entre a cabeça da lança e a extensão de dobragem dupla, não pode ser arrumada. Altura máxima da ponta da lança: 73,6 m.

### Elevação da lança

Um cilindro hidráulico de acção dupla com válvula anti-retorno integral assegura a elevação de -3° a +78°.

### Sistema de momento de carga e fim de curso do cadernal

“Indicador gráfico” standard do momento de carga e do sistema de fim de curso do cadernal com sistema audiovisual de sinalização e dispositivo de bloqueio automático das alavancas de comando. Estes sistemas fornecem informações, apresentadas em visor electrónico, do ângulo da lança, do comprimento, do raio, da altura da ponta da lança, do momento de carga relativo, da carga máxima admitida, da indicação de carga e aviso sobre o fim de curso do cadernal. O Sistema de Definição da Área de Trabalho standard permite ao operador seleccionar previamente e definir áreas de trabalho. Se a grua se estiver a aproximar dos limites previamente definidos, avisos audiovisuais ajudam o operador a evitar obstruções no local da obra.

### Cabine

Cabine panorâmica, integralmente feita de aço, com isolamento sonoro e vidro de segurança colorido a toda a volta. O assento Deluxe integra controladores de eixo duplo, eléctricos, instalados no apoio para os braços. O painel de controlo está equipado com manómetros para todas as funções do motor. Entre as demais funcionalidades standard incluem-se: Volante inclinável, aquecedor da cabine de água quente, ventoinha de circulação do ar na cabine, janelas lateral e traseira deslizantes, vidro de tejadilho deslizante com limpa-vidros eléctrico e pala para o sol, lava e limpa pára-brisas eléctricos, extintor de incêndios e cinto de segurança, ar condicionado.

### Rotação

Unidade de oscilação planetária com travão multi-discos accionado por pedal. Aplicação de mola, travão de oscilação hidráulicamente solto do tipo pistão, uma posição de bloqueio para estacionamento mecânico, operada da cabina. \*Oscilação mecânica opcional a 360°. Velocidade máxima : 2,5 rpm.

### Contrapeso

6 516 kg fixo à superestrutura.

### Sistema hidráulico

Três bombas principais com uma capacidade combinada de 511 LPM. Pressão de serviço máxima: 27,6 MPa. Dois conjuntos individuais de válvulas de pressão compensada. Filtro no circuito de retorno com protecção por derivação de débito total e indicador de manutenção. Cartucho substituível com classe de filtragem micrométrica de 5/12/16. Depósito de 640 L Radiador de óleo integral. Tomadas para teste de pressão do sistema.

### Guincho

Redutor de planetários com travão em banho de óleo multidiscos de mola, automático. Tambor ranhurado. Indicadores electrónicos da rotação do tambor de elevação e acamador de cabo no tambor de elevação.

Esforço máximo no cabo simples : 8 363 kg

Esforço máximo no cabo simples: 7 620 kg com cabo da classe 6x37.

7 620 kg com cabo da classe 35x7

Velocidade máxima do cabo simples : 153 m/min.

Tipo de Cabo: 6x37 EIPS IWRC. \*35x7 Flex-X resistente à rotação.

Diâmetro do Cabo: 19 mm. Comprimento do cabo: Guincho principal: 183 m e auxiliar: 152 m. Capacidade Máxima do Cabo : 211 m.

### CraneSTAR

Sistema de gestão de frotas de gruas.

## Chassis

### Chassis

Chassis de caixa em aço de alta resistência. Receptáculos integrais dos estabilizadores, reboque dianteiro e traseiro e olhais para elevação.

### Estabilizadores

Quatro vigas de estabilização hidráulicas e telescópicas, de caixa dupla, de secção simples, com macacos invertidos e válvulas anti-retorno integrais. Três posições : 0%, 50% e totalmente estendidas. Sapatas de apoio, integralmente feitas de aço, de libertação rápida, diâmetro 610 mm. Carga máxima nas sapatas : 41 731 kg. Comandos de estabilização e indicador de nível instalados no interior da cabine.

### Motor

**Motor(Tier III):** Cummins QSB 6.7 L diesel, seis cilindros, turboalimentado, 179 KW a 2.500 rpm. Binário máximo: 987 Nm a 1500 rpm. Nota: Necessário para nos países fora da América do Norte e da União Europeia.

**Motor(Tier IV):** Cummins QSB 6,7 L diesel, seis cilindros, turboalimentado, com silenciador/filtro de partículas diesel Cummins. Respeita os níveis de emissões de acordo com Tier IV da U.S.E.P.A. e classe IIIB da U.E.. 179 KW a 2.500 rpm. Binário máximo: 990 Nm a 1500 rpm. Requisitos relativos ao combustível: máximo de 15 ppm de teor de enxofre (diesel de muito baixo teor em enxofre). Nota: o motor Tier IV é necessário nos países da América do Norte e da União Europeia.

Depósito de 280 l.

### Transmissão

Transmissão Spicer Powershift com 6 velocidades de marcha á frente e 6 velocidades de marcha-atrás. Desembraiagem do eixo frontal para deslocação 4 x 2.

### Tracção/direcção

4 x 4.

Direcção assistida de comando independente:

À frente : totalmente hidráulica, comandada pelo volante.

Atrás : totalmente hidráulica, comandada por interruptor.

Disponibiliza um número infinito de variações dos 4 principais modos de direcção: só dianteira, só traseira, direcção tipo caranguejo e direcção coordenada. Luz indicadora de orientação na centragem traseira. Raio giratório de 4 rodas: 7,1 m.

### Eixos

Dianteiros : Eixo de tracção/direcção com cubos do redutor de planetários e diferencial rigidamente montados no chassis.

Traseiros : Eixo de tracção/direcção com cubos do redutor de planetários e diferencial montados no chassis de forma articulada (pivôs).

Bloqueios hidráulicos completos e automáticos no eixo traseiro que permitem uma oscilação de 203 mm apenas com a lança centrada na frente.

### Pneus

29,5 x 25 - 28 telas.

### Iluminação

Conjunto completo, incluindo luzes de sinalização de mudança de direcção, faróis dianteiros, faróis traseiros, luzes de travagem e luzes de sinalização de perigo.

### Velocidade máxima

37 km/h.

### Declive (teórica)

75 % baseado em PB 43 830 kg, pneus 29,5 x 25, bombas engatadas, lança 42,0 m, extensão bi-fold, elevação e cabo auxiliar, e bloco de gancho 59 t.

### Travões

Travões de circuito dividido, totalmente hidráulicos, que actuam sobre todas as rodas.

Travão de estacionamento de mola e de libertação hidráulica, montada no eixo dianteiro.

### Sistema eléctrico

Duas baterias de 12 V que dispensam manutenção. Arranque e luzes de 12 V. Interruptor de desconexão da bateria.

### \* Equipamento opcional

• Pacote de guincho auxiliar(inclui guincho auxiliar GHP30A com indicador electrónico de rotação do tambor do guincho, guia do cabo do tambor do guincho, cabo de aço classe 35x8 de 19 mm de 152 m, cabeça da lança auxiliar de uma única roldana. • Pacote de iluminação auxiliar e de conveniência: inclui pirlampo rotativo montado na superestrutura, barra de iluminação do LMI(Indicador de momento de carga) no interior da cabina, dois focos montados no tramo base da lança e protecção em borracha da zona de armazenagem. • Conformidade com a marca CE. • Bloqueios diferenciais do eixo cruzado (dianteiro e traseiro) • Desconexão manual da bomba • Gancho de reboque traseiro • Bloqueio da rotação a 360° tipo NYC • Registo de dados PAT • Contrapeso removível hidráulicamente

\* Assinala o equipamento opcional. Outros opcionais sob pedido

## Крановая установка



### Стрела

11 м – 42 м, пяти-секционная, с синхронизированной последовательностью, полномошная стрела с режимами А и В. Максимальная высота головки: 44,6 м. Наконечник стрелы: четыре пилатроновых шкива, установленных на усиленных конических роликоподшипниках со съёмными экранами троса шпилечного типа. Наконечник стрелы с быстрым заводом троса (тип Quick-reeve).



### \*Удлинитель стрелы

Двойной решетчатый удлинитель стрелы на 10,1 м. Возможность установки под углом в 0°, 25° или 45°. Складывается вдоль секции основной стрелы. Максимальная высота оголовка удлинителя: 54,0 м.



### \*Фиксированный удлинитель стрелы

складной решетчатый удлинитель стрелы 10,1 - 17,1 м. Возможность установки под углом в 0°, 20° или 40°. Складывается вдоль секции основной стрелы. Максимальная высота оголовка удлинителя: 61,1 м.



### \*Вставки

Решетчатые удлинительные вставки длиной 6,1 м. Устанавливаются между оголовком стрелы и удлинителем. Не складываются. Максимальная высота подъема : 73,6 м.



### Угол наклона стрелы

Один гидравлический цилиндр двойного действия со встроенным обратным клапаном обеспечивает подъем от -3° до +78°.



### Ограничитель грузового момента и ограничитель высоты подъема крана

Стандартный ограничитель грузового момента с графическим дисплеем и система блокировки при переподъеме с звуковой и визуальной сигнализацией и блокировкой органов управления. Эти системы выводят на электронный дисплей угол наклона стрелы, длину, радиус, высоту оголовка стрелы, относительный грузовой момент, максимально допустимую нагрузку, текущую нагрузку и предупреждение о возможности перегруза. Стандартная система ограничения рабочей зоны позволяет оператору заранее выбрать и определить безопасные рабочие зоны. При приближении крана к установленным границам срабатывает звуковая и визуальная сигнализация предупреждения оператора.



### Кабина

Полностью стальная кабина с круговым обзором, звукоизоляцией и тонированными небьющимися стеклами по всему периметру. Высококачественное сиденье оборудовано встроенными в подлокотники органами управления с одноосевым перемещением. Контрольные приборы для всех рабочих функций выведены на приборную панель. Остальные опции, включенные в стандартную поставку: обогреватель на горячей воде, вентилятор, раздвижные боковые и задние стекла, раздвижная застекленная крыша с электрическим стеклоочистителем и солнцезащитным экраном, электроомыватель и очиститель лобового стекла, огнетушитель и ремень безопасности, воздушный кондиционер.



### Поворот

Планетарный поворотный привод со стояночным мультидисковым тормозом. Пружинный, гидравлически высвобождаемый плунжерный тормоз механизма поворота крана, однопозиционный механический центральный замок, управляемый из кабины. \* Механический поворот на 360° - по запросу. Максимальная скорость: 2,5 об./мин.



### Противовес

6 516 кг, закрепленных на поворотной платформе.



### Гидравлическая система

3 главных насоса общей производительностью 511 л/мин. Максимальное рабочее давление: 276 бар. Две независимых группы разгруженных клапанов. Фильтр возвратной магистрали с полнопоточной обходной защитой и индикатором обслуживания. Сменная кассета с минимальным размером частиц, удаляемых фильтром, 5/12/16. Гидробак на 640 л. Встроенный маслоохладитель. Контрольные отверстия для проверки давления системы.



### Лебедка подъема

Планетарный редуктор с автоматическим пружинным многодисковым жидкоохлаждаемым тормозом. Желобчатый барабан. Электронные индикаторы вращения подъемного барабана и кабельные держатели. Максимальное натяжение каната при однократной запуске: 8 363 кг. Максимально допустимое натяжение каната: 7620 кг с канатом класса 6X37. 7620 кг с устойчивым к скручиванию канатом 35X7. Максимальная скорость каната при однострунной оснастке: 153 м/мин. Конструкция каната: 6X37 с сердечником из высокопрочной стали для подъемных канатов особой гибкости, высокого качества. \*35x7 Flex-X, устойчивый к скручиванию. Диаметр каната: 19 мм. Длина каната: Лебедка основного подъема: 183 м - Лебедка вспомогательного подъема: 152 м. Максимальная длина укладки каната: 211 м.



### CraneSTAR

Система управления ресурсом крана.

## Тягач



### Шасси

Коробчатая рама выполнена из высокопрочной низколегированной стали. Интегрированные гнезда домкратов и фронтальные/задние уши для буксировки, подъема и крепления.



### Выносные опоры

Четыре гидравлические телескопические одноступенчатые двухмуфтовые балочные выносные опоры с перевернутыми цилиндрами и встроенными блокирующими клапанами. 3 позиции выдвижения: 0%, 50% и на полную длину. Стальные, легко доступные опоры диаметром 610 мм. Максимальная нагрузка на подушку выносной опоры: 41 731 кг. Органы управления и указатель уровня крана расположены в кабине.



### Двигатель

Двигатель (Tier III): Дизельный Cummins QSB 6,7 л, 6-цилиндровый, с турбонагнетателем, мощностью 179 кВт и 2500 оборотов/мин. Максимальный крутящий момент: 987 Н\*м при 1500 оборотах/мин. Примечание: Tier III - нормативное требование для продаж вне Европейского Союза и Северной Америки.

Двигатель (Tier IV): Дизельный Cummins QSB 6,7 л, 6-цилиндровый, с турбонагнетателем и выхлопным фильтром/шумоглушителем Cummins Diesel Particulate. Соответствует требованиям U.S.E.P.A. Tier IV и E.U. Stage III B, мощность 179 кВт при 2500 оборотов/мин. Максимальный крутящий момент: 990 Н\*м при 1500 оборотах/мин. Требования для горючего: максимальное содержание серы 15 частей на миллион (дизельное топливо с ультранизким содержанием серы) Примечание: двигатель Tier IV - нормативное требование для продаж в Европейском Союзе и Северной Америке.

Емкость топливного бака: 280 л.



### Трансмиссия

Коробка переключения передач Spicer с 6 передними и 6 задними скоростями. Отключение переднего моста для передвижения в режиме 4 x 2.



### Ведущие / Управляемые оси

4 x 4. Полностью независимое рулевое управление с усилителем. Передние: С полным гидравлическим усилением. Управление от рулевого колеса. Задние: С полным гидравлическим усилением. Ручное управление с помощью переключателей. Возможны многократные варианты 4 основных режимов рулевого управления: только передние, только задние, кротовый ход и согласованный режим. Центральный световой сигнализатор задней колесной пары. Четырехколесный радиус поворота: 7,1 м.



### Оси

Передняя: Ведущая с управляемыми колесами, с дифференциальными и планетарными колесными редукторами, жестко смонтированными на раму. Задняя: Ведущая с управляемыми колесами, с дифференциальными и планетарными колесными редукторами, шарнирно закрепленными на раму. Автоматические гидравлические блокираторы полного срабатывания на задней оси обеспечивают уровень колебаний 203 мм при стреле, отцентрованной по фронтальной части.



### Шины

29,5 x 25 - 28 с диагональным кордом.



### Фары

Полное освещение, включая индикаторы поворота, передние, задние, тормозные фонари и лампы аварийной сигнализации.



### Максимальная скорость

37 км/ч.



### Преодолеваемый уклон (теор.)

75 % на базе 43 830 кг (полная масса), шины 29,5 x 25, с использованием насосов, стрела 42,0 м, двойной складной гусек, лебедка вспомогат. подъема с кабелем и крюковый блок 59 т.



### Тормоза

Полностью гидравлические, разделенные на все колеса. Пружинный, гидравлически отпускаемый парковочный тормоз, закрепленный на передней оси.

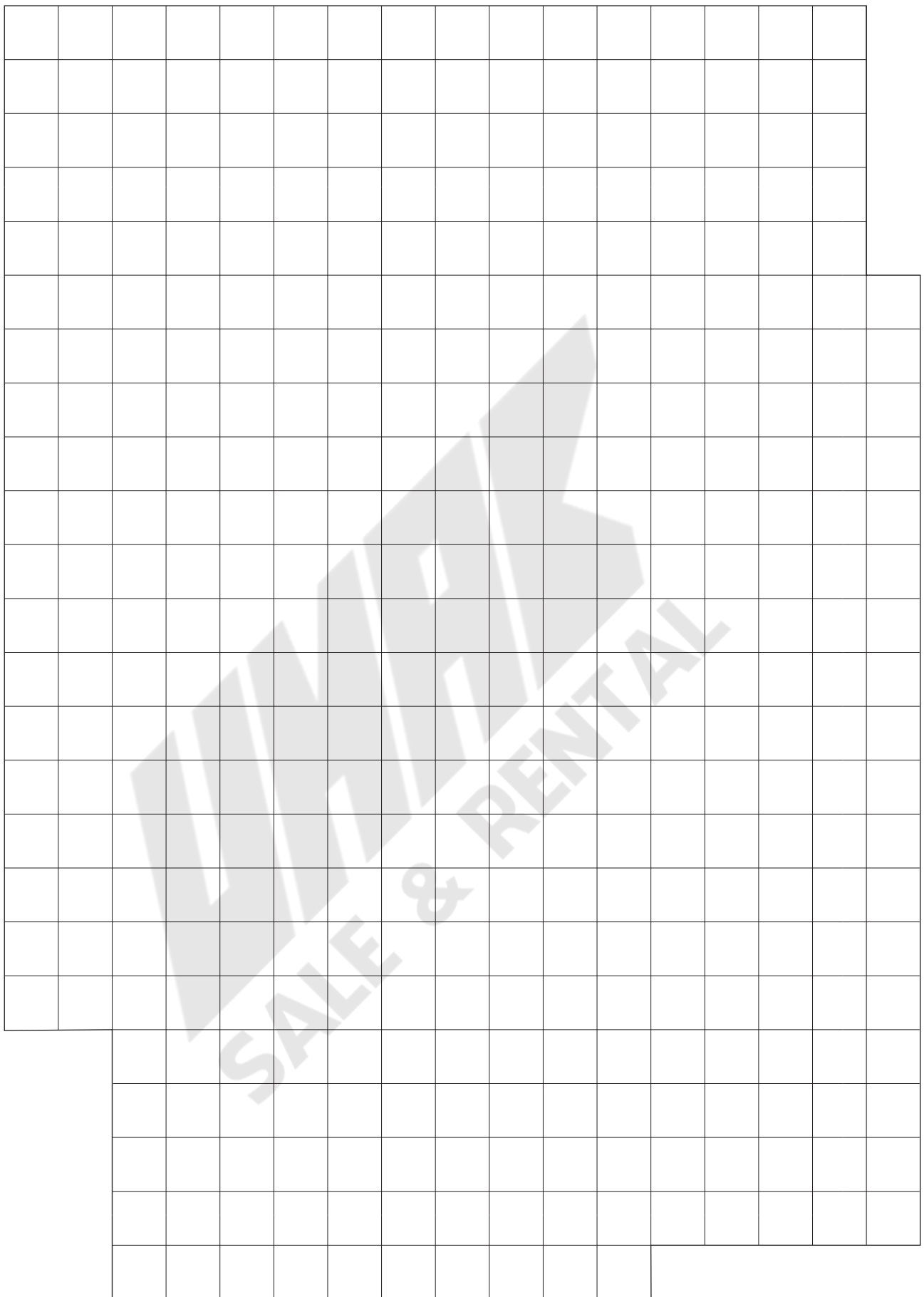


### Электросистема

Две, не требующие обслуживания, батареи на 12 В. Напряжение запуска и освещения - 12 В. Отключение батарей. Выключатель батарей.

































### \* Дополнительное оборудование (по выбору)

- Вспомогательный подъемный механизм (GNP30A) вспомогательный подъемник с электронным индикатором барабана подъемной машины, следящим элементом барабана подъемной машины, 152 м 19 мм стального троса класса 35x7, вспомогательного одиночного шкива наконечника стрелы крана.
- Вспомогательный пакет для освещения и комфорта: состоит из установленного на надстройке осветительного фонаря ночного освещения, лампочек панели в кабине, смонтированных в стрелу осветительных прожекторов на двойной основе, а также резиновых ковриков.
- Отметка соответствия стандарту CE
- Замки межколесного дифференциала (передний и задний)
- Ручное отключение насоса
- Сцепной крюк - задний
- 360° фиксатор поворота (по ч/с) типа NYC
- Регистратор
- Гидравлический съёмный противовес



# Notes • Hinweise • Notes • Notas • Note • Примечания

## Symbols • Symbolerklärung • Glossaire des symboles • Glosario de simbolos • Glossario dei simboli • Simbolos • Символы

	Axles Achsen Ponts Ejes Assali Eixos Оси		Crane functions Kranbewegungen Mouvements de la grue Funciones de la grúa Funzioni della gru Funções da grua Функции крана		Hookblock / Capacity Hakenflasche / Traglast Moufle / Force de levage Gancho / Capacidad Gancio / Capacità Gancho / Capacidade Крюковой блок / Грузоподъемность		Speed Geschwindigkeit Vitesse Velocidad Velocità Velocidade Скорость
	Axle load Achslast Charge à l'essieu Carga por eje Carico sugli assi Carga por eixo Нагрузка на ось		Crane travel Fahrstellung Déplacement de la grue Grúa en traslado Traslazione gru Deslocação da grua Перемещение крана		Hydraulic system Hydrauliksystem Circuit hydraulique Sistema hidráulico Impianto idraulico Sistema hidráulico Гидравлическая система		Suspension Federung Suspension Suspensión Suspensio Suspensão Подвеска
	Boom Ausleger Flèche Pluma Braccio Lança Стрела		Drive/Steer Antrieb/Lenkung Direction/Déplacement Tracción/Dirección Trazione/Sterzo Tração / Direção Ведущие/Управляемые оси		Lattice extension Gitterspitze Extension treillis Extensión de celosia Falcone tralicciato Extensão treliçada Гусек		Transmission / Gear Getriebe / Gang Boîte de vitesses / Rapport Transmisión / Cambio Cambio Transmissão / Mudança Трансмиссия / передача
	Boom elevation Wippwerk Relevage Elevacion de pluma Elevazione braccio Elevação da lança Подъем стрелы		Electrical system Elektrische Anlage Circuit électrique Sistema eléctrico Impianto elettrico Sistema eléctrico Электросистема		Lattice extension (luffing) Gitterspitze (wippbar) Extension treillis (volée variable) Extensión de celosia (angulable hidráulicamente) Falcone tralicciato (inclinabile) Extensão treliçada (angulação hidráulica) Гусек (с изменением вылета)		Travel speed Fahrgeschwindigkeit Vitesse de déplacement Velocidad de desplazamiento Velocità di traslazione Velocidade de translação Скорость движения
	Boom telescoping Teleskopieren Télescopage de flèche Telescopaje de pluma Lunghezza braccio Telescopagem da lança Выдвижение стрелы		Engine Motor Moteur Motor Motore Motor Двигатель		Luffing Jib Wippspitzenausleger Volée variable Plumín angulable Falcone a volata variabile Jib angulável Маневровый гусек		Tyres Bereifung Pneumatiques Neumáticos Pneumatici Pneus Шины
	Brakes Bremsen Freins Frenos Freni Travões Тормоза		Free on wheels Freistehend Sur pneus Sobre neumáticos Su gomme - Sobre pneus Свободные внутренние колеса		Low range Kriechgang Gamme basse Marchas cortas Fuoristrada Marcha lenta Низкий диапазон		
	Cab Kabine Cabine Cabina Cabina Cabine Кабина		Gradeability Steigfähigkeit Aptitude en pente Superacion de pendientes Pendenza superabile Declive Преодолеваемый уклон		Outriggers Abstützung Calage Estabilizadores Stabilizzatori Estabilizadores Выносные опоры		
	Carrier frame Chassis-Rahmen Châssis porteur Bastidor Telaio Chassis Рама тягача		Main hoist Haupthubwerk Treuil principal Cabrestante principal Argano principale Guincho principal Лебедка основного подъема		Radius Ausladung Portée Radio Raggio Raio Вылет		
	Counterweight Gegengewicht Contrepoids Contrapeso Contrappeso - Contrapeso Противовес		Auxiliary hoist - Hilfshubwerk Treuil auxiliaire Cabrestante auxiliar Argano secondario Guincho auxiliar Лебедка вспомогательного подъема		Slewing/Working range Drehwerk/Arbeitsbereich Orientation/Rayon d'opération Giro/Gama de trabajo Rotazione/Area di lavoro - Giratória / Gama de trabalho Поворот/ Рабочий диапазон		

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# Grove RT770E

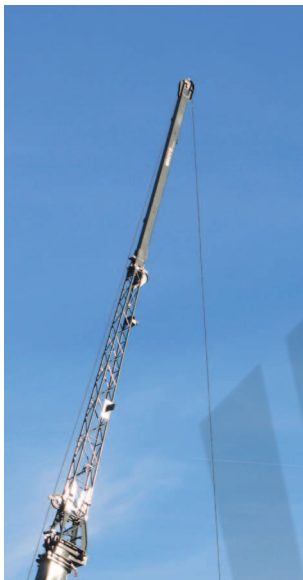
## Product Guide



### Features

- 65 t (70 USt) capacity
- 11 m – 42 m (36 ft – 138 ft) five-section full power boom
- 10,1 m - 17,1 m (33 ft - 56 ft) offsettable bi-fold lattice swingaway extension
- 6,1 m (20 ft) extension insert
- 6516 kg (14,365 lb) counterweight pinned to superstructure

# Features



## Extensions

An optional bi-fold swingaway lattice extension easily stows on the side of the base boom for easy transport while providing on-board extension from 10,1 m - 17,1 m (33 ft - 56 ft) for a maximum tip height of 61,6 m (202 ft). By adding the 6,1 m (20 ft) insert, the maximum tip height can be extended to 67,3 m (221 ft).



## MEGAFORM™ boom

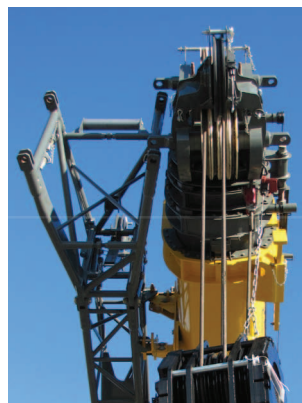
The superstructure features a full-power five-section MEGAFORM™ boom that can reach to a maximum tip height of 44,6 m (146 ft). The sequence synchronized extension features telescopic boom sections via a single lever joystick controller.

## 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.

## Smooth operation

The RT770E has a quick-reeve boom nose and swingaway alignment device to help operators set up smoothly.



# Contents

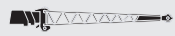
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# Specifications

## Superstructure

### Boom

11 m - 42 m (36 ft - 138 ft) five-section, sequence synchronized, full-power boom with A&B mode.



### \*Optional fixed swingaway extension

10,1 m (33 ft) offsettable lattice swingaway extension. Offsettable at 0°, 25° and 45°. Stows alongside base boom section.



### \*Optional bi-fold swingaway extension

10,1 m - 17,1 m (33 ft - 56 ft) bi-fold lattice swingaway extension. Offsettable at 0°, 25° and 45°. Stows alongside base boom section.



### \*Optional 6,1 m (20 ft) insert

Installs between boom nose and bi-fold extension, non-stowable.



### Boom nose

Four nylatron sheaves mounted on heavy-duty tapered roller bearings with removable pin-type rope guards. Quick-reeve type boom nose.

\*Optional removable auxiliary boom nose with removable pin type rope guard.



### Boom elevation

One double-acting hydraulic cylinder with integral holding valve provides elevation from -3° to 78°.



### Load moment and anti-two block system

Standard "Graphic Display" load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition. The standard Work Area Definition System allows the operator to pre-select and define safe working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding job-site obstructions.



## Cab

Full-vision, all-steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest-mounted hydraulic single-axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include: hot water heater, air-conditioning, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe, fire extinguisher and seat belt.



## Swing

Planetary swing with foot-applied multi-disc brake. Spring applied, hydraulically-released swing brake and plunger-type, one position, mechanical house lock operated from cab. \*Optional 360° mechanical swing lock. Maximum speed: 2.5 rpm.



## Counterweight

6516 kg (14,365 lb) pinned to superstructure.



## Hydraulic system

Three main gear pumps with a combined capacity of 391 LPM (103 GPM), 511 LPM (135 GPM) with optional air conditioning.

Maximum operating pressure: 27,6 MPa (4000 psi). Two individual post pressure compensated valve banks.

Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16. 640 L (169 gal) reservoir. Integral oil cooler. System pressure test ports.



## Hoist specifications (GHP30A) main and auxiliary hoist

Main and auxiliary hoist: Model GHP30A

Planetary reduction with automatic spring applied multi-disc brake. Grooved drum. Electronic hoist drum rotation indicator and hoist drum cable followers.

Maximum hoist single line pull: 8363 kg (18,436 lb)

Maximum single line speed: 153 m/min (502 fpm)

Maximum permissible line pull:

7620 kg (16,800 lb) with standard 6 x 37 class rope

7620 kg (16,800 lb) with optional 35 x 7 class rope

# Specifications

## Superstructure continued

Rope diameter: 19 mm (3/4 in)

Rope length: 183 m (650 ft)

Rope type: 6 x 37 class EIPS IWRC

\*Optional 35 x 7 class rotation resistant

Maximum rope stowage: 211 m (695 ft).

## Carrier



### Chassis

Box section frame fabricated from high-strength, low alloy steel. Integral outrigger housings and front/rear towing, lifting, and tie down lugs.



### Outrigger system

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position settings, 100%, 50% and fully retracted. All steel fabricated, quick-release type round outrigger floats, 610 mm (24 in) diameter. Outrigger Monitoring System comes standard (required for North America and Canada).

Maximum outrigger pad load: 41 731 kg (92,000 lb)



### Outrigger controls

Controls and crane level indicator located in cab.



### Fuel tank capacity

280 L (74 gal)



### Transmission

Powershift with 6 forward and 6 reverse speeds (3 speeds high and 3 speeds low). Front axle disconnect for 4 x 2 travel.



### Electrical system

Three 12-volt maintenance free batteries. 12-volt starting and lighting, circuit breakers, battery disconnect switch.

## I-O-I Drive

4 x 4



### Steering

Fully independent power steering:

Front: Full hydraulic, steering wheel controlled.

Rear: Full hydraulic, switch controlled.

Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated.

Rear steer centered indicating light.

4 wheel turning radius - 7,1 m (23 ft 4 in).



### Engine (Tier IV)

Cummins QSB 6.7 L diesel, six cylinders, turbocharged with Cummins Diesel Particulate Exhaust filter/muffler. Meets emissions per U.S.E.P.A. Tier IV and E.U. Stage III B. 179 kW (240 bhp) at 2500 rpm. Maximum torque: 990 N-m (730 ft lb) at 1500 rpm.

Fuel requirement: Maximum of 15 ppm sulphur content (Ultra Low Diesel Fuel).

**Note:** Tier IV engine Required in North American and European Union countries.



### Engine (Tier III)

Cummins QSB 6.7 L diesel, six cylinders, turbocharged, 179 kW (240 bhp) (Gross) at 2500 rpm. Maximum torque: 987 N-m (728 ft lb) at 1500 rpm.

**Note:** Required for sale outside of North American and European Union countries



### Axles

**Front:** Drive/steer with differential and planetary reduction hubs rigid-mounted to frame.

**Rear:** Drive/steer with differential and planetary reduction hubs pivot-mounted to frame.

Automatic full hydraulic lockouts on rear axle permit 203 mm (8 in) oscillation only with boom centered over the front.

# Specifications

## Carrier continued

### Brakes

Full hydraulic split circuit brakes operating on all wheels. Spring-applied, hydraulically released axle-mounted parking brake.

### Tires

29.5 x 25 - 28PR bias earthmover type.

### Lights

Full lighting package including turn indicators, head, tail, brake and hazard warning lights.

### Maximum speed

37 km/h (23 mph) (no load).

### Gradeability (theoretical)

75% (based on 43 830 kg [96,628 lb] GVW). 29.5 x 25 tires, pumps engaged, 42 m (138 ft) boom, bi-fold extension, aux. hoist and cable, and 65 USt hookblock.

## Miscellaneous standard equipment

Full width steel fenders, full length steel decking, dual rear view mirrors, hook block tiedown, electronic back-up alarm, light package, front stowage well, tachometer, rear wheel position indicator, 36,000 BTU hot water heater, air conditioning package with 28,500 BTU hydraulic driven air conditioning, hoist mirrors, engine distress A/V warning system. Auxiliary hoist control valve arrangement (less hoist). Cold start aid and immersion type engine block heater, 120V 750 watt. Hoist access platform. Crane Star asset management system

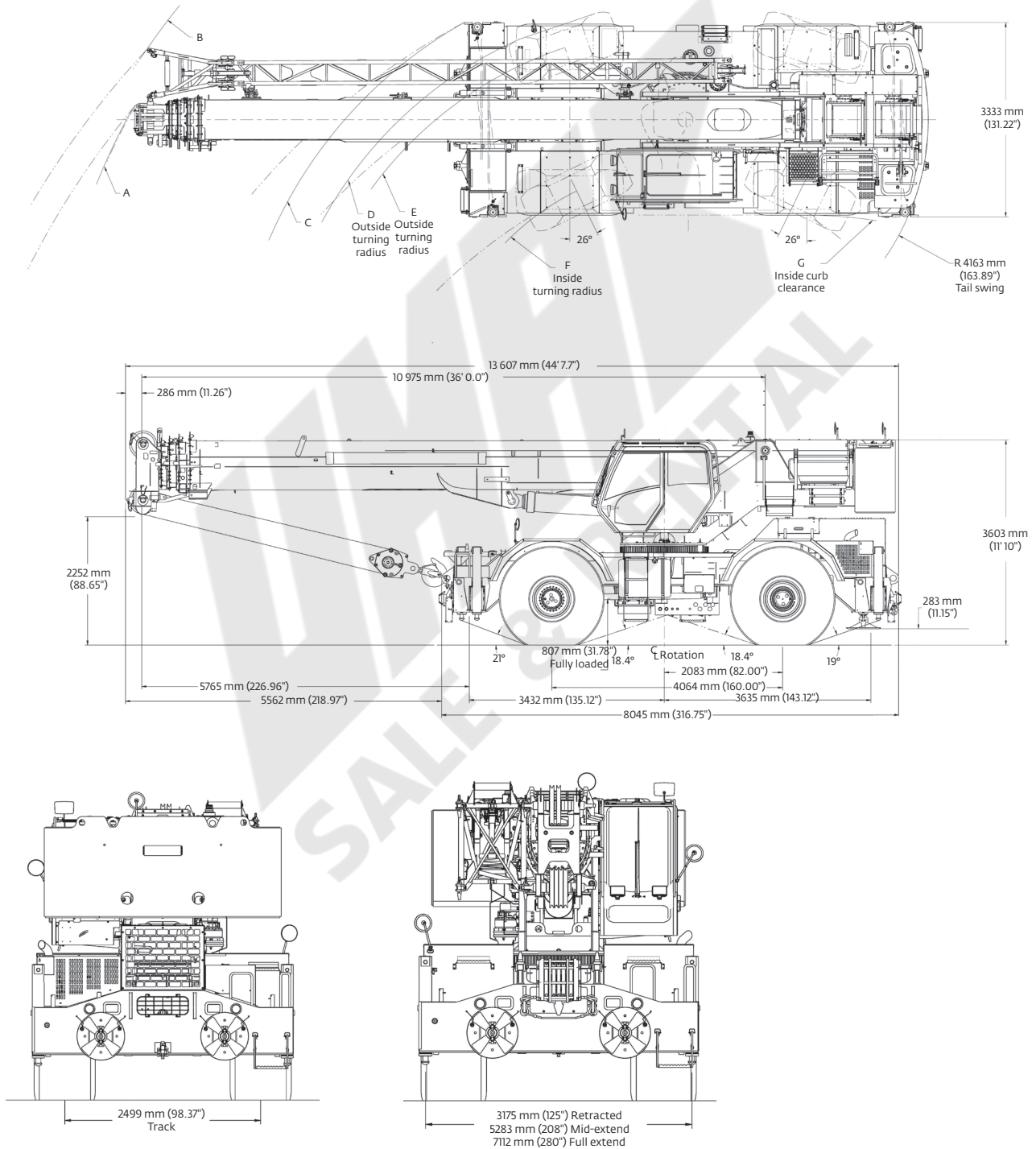
## \*Optional equipment

- ▶ Auxiliary Hoist Package (includes Model GHP30A auxiliary hoist with electronic hoist drum rotation indicator, hoist drum cable follower, 152 m (500 ft) of 19 mm (3/4 in) 35 X 7 class wire rope, auxiliary single sheave boom nose.
- ▶ Auxiliary Light and Convenience Package: includes cab mounted amber flashing light, in-cab LMI light bar, and dual base boom mounted floodlights, rubber mat for stowage trough
- ▶ "CE" Mark Conformance (sound abatement foam kits, 3rd wrap indicator, emergency auxiliary steering, dual axis joystick controllers)
- ▶ Cross axle differential locks (front and rear)
- ▶ Manual pump disconnect
- ▶ Pintle hook - rear
- ▶ 360° NYC style positive swinglock
- ▶ PAT event recorder
- ▶ Hydraulic removable counterweight

# Dimensions and weights

Dimensions														
	A	B	C	D	E	F	G	A	B	C	D	E	F	G
Tire Size 29.5 x 25	14 961 (589)	15 494 (610)	12 460 (491)	11 732 (462)	11 342 (446)	9004 (355)	7662 (302)	10 922 (430)	11 153 (439)	7830 (308)	7099 (280)	6744 (266)	4368 (172)	3496 (138)
	Two-wheel steer							Four-wheel steer						

Dimensions are shown in mm (in).



# Weights

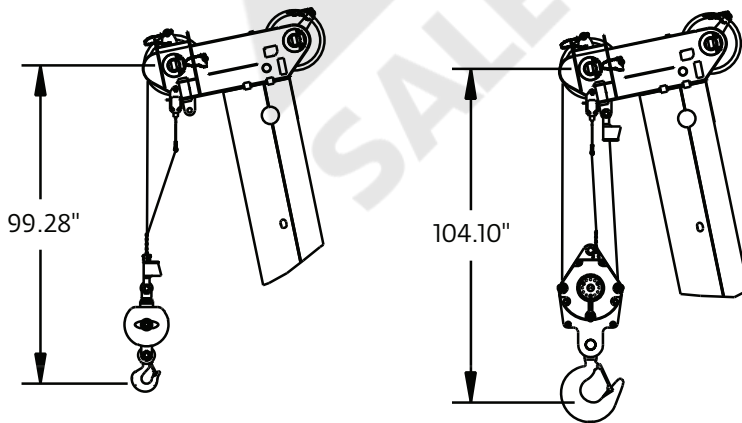
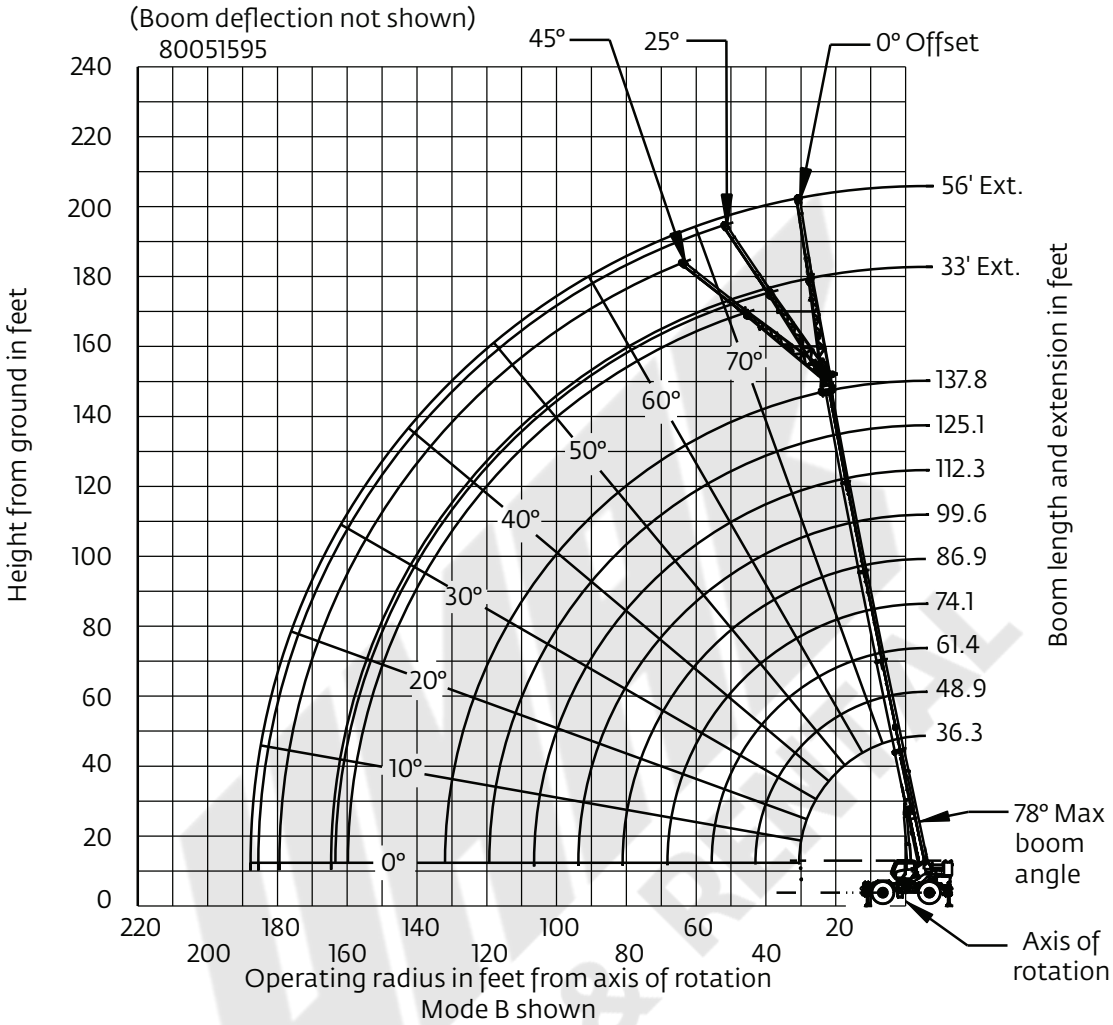
Weights-PROVISIONAL						
	GVW		Front		Rear	
	kg	lb	kg	lb	kg	lb
<b>Basic Machine:</b> Including 42,0 m (138 ft) main boom, main hoist with 198 m (650 ft) of wire rope, auxiliary hoist with 198 m (650 ft) of wire rope, full pinned counterweight, full decking, A/C, and hoist access platform, Tier IV engine.	41 794	92,139	20 024	44,145	21 770	47,994
<b>Add:</b> 33 ft -56 ft bi-fold swingaway + extension carrier brackets + aux. boom nose	1295	2854	2175	4796	-880	-1942
<b>crane weight</b>	43 089	94,993	22 220	48,941	20 889	46,052
<b>Add:</b> 60 t (65 USt) 5-sheave hook block stowed in trough	581	1280	581	1280	0	0
<b>crane weight</b>	43 669	96,273	22 780	50,221	20 889	46,052
<b>Add:</b> 7,5 t (8.3USt) headache ball tied to O/R cable	161	355	262	578	-101	-223
<b>crane weight</b>	43 830	96,628	23 042	50,799	20 788	45,829





# Working range (Mode B)

42 m (138 ft) main boom and 10,1 m - 17,1 m (33 ft - 56 ft) bi-fold swingaway



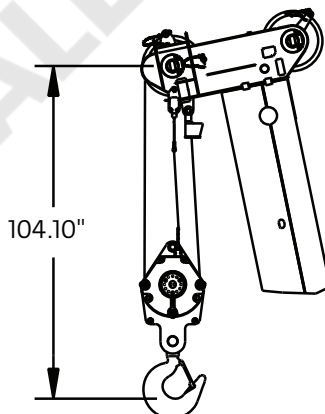
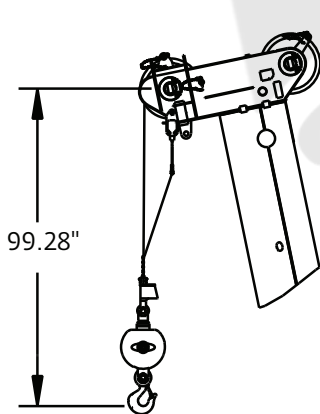
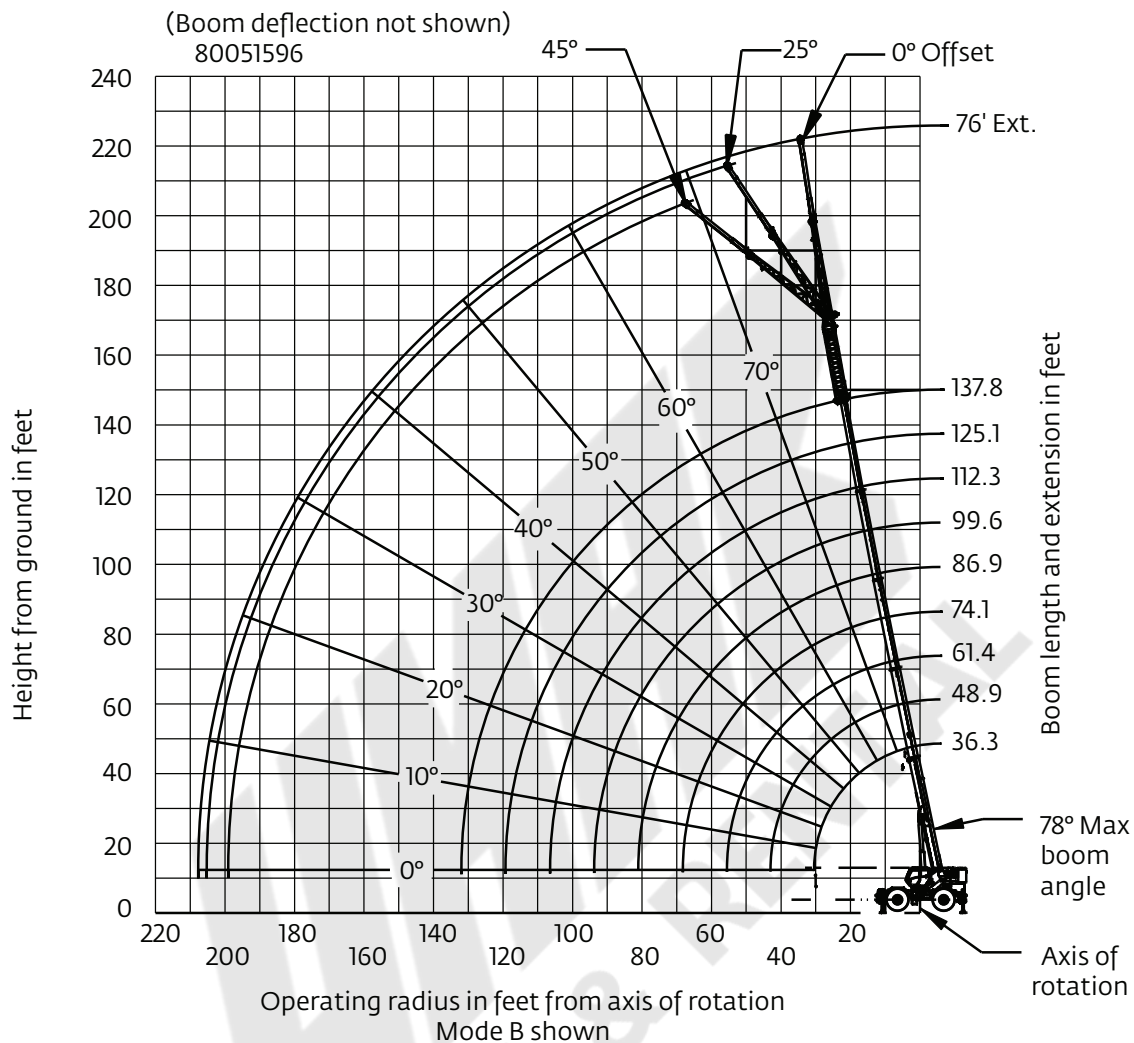
Dimensions are for largest Grove furnished hook block and headache ball, with anti-two block activated.

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

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


# Working range (Mode B)


42 m (138 ft) main boom, 10,1 m - 17,1 m (33 ft - 56 ft) bi-fold swingaway and 6,1 m (20 ft) extension insert





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

# Load chart


**11 m - 42 m**  
**(36 ft - 138 ft)**


**6516 kg**  
**(14,365 lb)**


**23 ft 4 in**  
**100%**


**360°**

Radius in feet	Main boom length in feet - LMI code #0001															
	36.3	48.9	49.1	61.4	61.8	74.1	74.5	86.9	87.3	99.6	100.0	112.3	112.7	125.1	125.3	137.8
Tele 1	0%	50%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%	0%	100%
Tele 2	0%	0%	17%	0%	33%	17%	50%	33%	67%	50%	83%	67%	100%	83%	100%	100%
Tele 3	0%	0%	17%	0%	33%	17%	50%	33%	67%	50%	83%	67%	100%	83%	100%	100%
Tele 4	0%	0%	17%	0%	33%	17%	50%	33%	67%	50%	83%	67%	100%	83%	100%	100%
Mode	A, B	B	A	B	A	B	A	B	A	B	A	B	A	B	A	A, B
9	140,000 (71)															
10	130,000 (69.5)	91,650 (75.5)	50,000 (75)		*49,900 (78)											
12	112,500 (66)	91,650 (73)	50,000 (73)	72,350 (78)	49,900 (76.5)											
15	93,250 (60.5)	91,100 (69)	50,000 (69)	72,350 (73.5)	49,900 (74)	*50,000 (78)	41,650 (78)									
20	71,550 (50)	69,500 (62.5)	50,000 (62.5)	66,300 (69)	49,900 (68.5)	50,000 (73)	41,650 (73)	49,850 (78)	29,750 (75.5)	*39,250 (78)	*25,800 (78)					
25	56,650 (37.5)	54,900 (55.5)	50,000 (55.5)	54,350 (63.5)	49,750 (63.5)	50,000 (69)	41,650 (68.5)	44,250 (72.5)	29,750 (72.5)	39,250 (75.5)	25,800 (75)	*29,550 (78)	*21,900 (78)	*22,600 (78)		
30	43,700 (16)	42,650 (47.5)	45,550 (47.5)	41,900 (58)	44,950 (58)	43,300 (64.5)	36,550 (64.5)	38,100 (69)	28,050 (68.5)	34,400 (72.5)	24,850 (72)	29,550 (75)	21,900 (74.5)	22,600 (77)	*21,750 (78)	*18,600 (78)
35		33,700 (38)	36,600 (38)	32,250 (52)	37,800 (52)	33,700 (60)	32,450 (60)	33,150 (65.5)	24,950 (65)	30,050 (69)	22,150 (69)	27,600 (72.5)	19,950 (71.5)	22,600 (74.5)	20,900 (74)	18,600 (76)
40		26,050 (25)	28,700 (25.5)	24,950 (45.5)	29,750 (46)	26,250 (55.5)	29,150 (55.5)	27,200 (61.5)	22,450 (61.5)	26,450 (66)	19,900 (65.5)	24,400 (69.5)	17,950 (69)	22,350 (72)	19,000 (71.5)	18,300 (74)
45				19,650 (38)	24,050 (38.5)	20,750 (50.5)	24,900 (50.5)	21,850 (58)	20,350 (57.5)	22,800 (63)	18,050 (62.5)	21,700 (66.5)	16,300 (66)	20,300 (69.5)	17,350 (69)	18,050 (72)
50				15,500 (28.5)	19,800 (29)	16,700 (45)	20,700 (45)	17,900 (53.5)	18,500 (53.5)	18,750 (59.5)	16,350 (59)	19,400 (64)	14,800 (63.5)	18,200 (67)	15,950 (66.5)	16,700 (69.5)
55				12,200 (12)	16,450 (14)	13,600 (38.5)	17,400 (39)	14,850 (49.5)	16,800 (49.5)	15,600 (56)	14,800 (55.5)	16,300 (61)	13,350 (60.5)	16,350 (64.5)	14,650 (64)	15,500 (67.5)
60						11,100 (31)	14,800 (31.5)	12,450 (44.5)	15,350 (45)	13,100 (52)	13,450 (52)	13,750 (57.5)	12,150 (57.5)	14,200 (62)	13,400 (61.5)	14,000 (65)
65						9070 (21)	12,650 (22)	10,500 (39)	13,550 (39.5)	11,050 (48.5)	12,300 (48.5)	11,650 (54.5)	11,050 (54.5)	12,150 (59)	12,250 (59)	12,600 (62.5)
70								8870 (33)	11,750 (33.5)	9420 (44)	11,300 (44.5)	9950 (51)	10,100 (51)	10,400 (56.5)	11,250 (56)	10,850 (60.5)
75								7450 (25.5)	10,250 (26)	8010 (39.5)	10,350 (40)	8500 (47.5)	9270 (48)	8940 (53.5)	10,000 (53.5)	9390 (58)
80								6190 (13)	8950 (14.5)	6800 (34)	9130 (34.5)	7250 (44)	8530 (44)	7690 (50.5)	8760 (50.5)	8130 (55.5)
85										5720 (28)	8050 (28.5)	6180 (39.5)	7860 (40)	6610 (47)	7690 (47)	7050 (52.5)
90										4760 (19.5)	7100 (20.5)	5240 (35)	7250 (35.5)	5670 (44)	6750 (44)	6100 (50)
95												4400 (30)	6530 (30.5)	4840 (40)	5930 (40.5)	5270 (47)
100												3640 (23.5)	5820 (24)	4110 (36)	5200 (36)	4530 (43.5)
105												2970 (13)	5160 (14.5)	3440 (31.5)	4530 (31.5)	3870 (40.5)
110														2830 (26)	3920 (26.5)	3250 (36.5)
115														2280 (19)	3370 (19)	2690 (32.5)
120																2170 (28)
125																1700 (22)
130																1270 (13.5)
Minimum boom angle (°) for indicated length (no load)																0
Maximum boom length (ft) at 0° boom angle (no load) - Mode A																137.8
Maximum boom length (ft) at 0° boom angle (no load) - Mode B																137.8

NOTE: ( ) Boom angles are in degrees.  
 \*This capacity is based on maximum boom angle  
 #LMI operating code. Refer to LMI manual for operating instructions.

Boom angle	Lifting capacities at 0° boom angle															
	36.3	48.9	49.1	61.4	61.8	74.1	74.5	86.9	87.3	99.6	100.0	112.3	112.7	125.1	125.3	137.8
0°	30,400 (30.5)	18,500 (43.1)	20,600 (43.2)	11,850 (55.6)	15,450 (56)	7890 (68.3)	11,300 (68.7)	5950 (81)	8610 (81.4)	4110 (93.8)	6390 (94.2)	2780 (106.5)	4920 (106.9)	1850 (119.2)	2920 (119.4)	1110 (132)

NOTE: ( ) Reference radii in feet.

80051692


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

# Load chart

 38.1 m (125.1 ft)
  10,1 m - 17,1 m (33 ft - 56 ft)
  6516 kg (14,365 lb)
  23 ft 4 in 100%
  360°

MODE B						
Radius in feet	33 ft LENGTH			56 ft LENGTH		
	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
30	10,850 (78)					
35	10,850 (77.5)					
40	10,850 (76)			6130 (78)		
45	10,850 (74.5)	10,500 (78)		6130 (77)		
50	10,850 (72.5)	9920 (77)	7290 (78)	6130 (75.5)		
55	10,850 (71)	9380 (75)	7090 (77)	6130 (74)		
60	10,850 (69)	8890 (73)	6930 (75)	6130 (72.5)	5200 (78)	
65	10,150 (67)	8440 (71)	6780 (73)	6130 (70.5)	5060 (77.5)	
70	9560 (65)	8030 (69)	6650 (71)	6130 (69)	4930 (75.5)	3810 (78)
75	9000 (63)	7660 (67)	6500 (69)	6130 (67.5)	4800 (74)	3720 (77.5)
80	7990 (60.5)	7310 (64.5)	6390 (67)	6020 (66)	4680 (72)	3620 (75.5)
85	6930 (58.5)	7000 (62.5)	6290 (64.5)	5670 (64)	4560 (70)	3520 (74)
90	6000 (56)	6710 (60)	6200 (62)	5360 (62.5)	4460 (68.5)	3440 (71.5)
95	5180 (53.5)	6020 (57.5)	5980 (60)	5070 (60.5)	4290 (66.5)	3400 (69.5)
100	4460 (51)	5180 (55)	5180 (57.5)	4800 (59)	4110 (64.5)	3310 (67.5)
105	3810 (48.5)	4430 (52.5)	4480 (54.5)	4460 (57)	3940 (62.5)	3270 (65)
110	3230 (46)	3760 (50)	3840 (52)	3890 (55)	3780 (60.5)	3230 (63)
115	2700 (43.5)	3150 (47)	3260 (49)	3370 (52.5)	3640 (58.5)	3190 (60.5)
120	2230 (40.5)	2600 (44)		2900 (50.5)	3500 (56)	3160 (58)
125	1790 (37.5)	2100 (41)		2470 (48)	3170 (53.5)	3140 (55.5)
130	1390 (34)	1630 (37.5)		2070 (45.5)	2690 (51)	3020 (53)
135	1030 (30)	1210 (33.5)		1710 (43)	2240 (48.5)	2520 (50)
140				1380 (40.5)	1830 (45.5)	
145				1070 (37.5)	1450 (42.5)	
150					1100 (39.5)	
Min. boom angle for indicated length (no load)	29°	32°	48°	36°	38°	49°
Max. boom length at 0° boom angle (no load) Mode B	99.6 ft			86.9 ft		

NOTE: ( ) Boom angles are in degrees. 80051695  
 #LMI operating code. Refer to LMI manual for operating instructions.  
 \*This capacity is based on maximum obtainable boom angle.







 38.2 m (125.3 ft)
  10,1 m - 17,1 m (33 ft - 56 ft)
  6516 kg (14,365 lb)
  23 ft 4 in 100%
  360°

MODE A						
Radius in feet	33 ft LENGTH			56 ft LENGTH		
	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
35	10,200 (78)					
40	10,200 (76)			5750 (78)		
45	10,200 (74.5)	8060 (78)		5750 (77)		
50	9490 (72.5)	8050 (76.5)	6950 (78)	5750 (75.5)		
55	8770 (70.5)	7520 (74.5)	6950 (77.5)	5750 (73.5)		
60	8300 (68.5)	7060 (72.5)	6660 (75.5)	5750 (72)	4820 (78)	
65	7740 (66.5)	6750 (70.5)	6320 (73.5)	5750 (70.5)	4820 (77)	
70	7250 (64.5)	6370 (68.5)	6020 (71)	5480 (68.5)	4640 (75.5)	
75	6820 (62.5)	6040 (66.5)	5740 (69)	5160 (67)	4340 (73.5)	3720 (78)
80	6440 (60.5)	5750 (64.5)	5500 (67)	4790 (65.5)	4140 (72)	3620 (76)
85	6020 (58.5)	5420 (62)	5220 (64.5)	4550 (63.5)	3890 (70)	3520 (74)
90	5710 (56)	5190 (60)	5020 (62)	4250 (62)	3720 (68)	3440 (72)
95	5370 (54)	4980 (57.5)	4800 (59.5)	3990 (60)	3520 (66)	3350 (70)
100	5130 (51.5)	4740 (55)	4640 (57)	3810 (58)	3330 (64)	3190 (68)
105	4650 (49.5)	4530 (52.5)	4460 (54)	3600 (56.5)	3210 (62)	3060 (65.5)
110	4040 (46.5)	4330 (50)	4280 (51.5)	3400 (54.5)	3050 (60)	2930 (63)
115	3490 (44)	3890 (47)	3830 (48.5)	3230 (52.5)	2910 (58)	2810 (60.5)
120	2990 (41)	3300 (44)		3070 (50.5)	2760 (56)	2690 (58.5)
125	2540 (37.5)	2750 (41)		2890 (48.5)	2640 (54)	2590 (55.5)
130	2120 (34)	2250 (37.5)		2620 (46)	2540 (51.5)	2490 (53)
135	1740 (30.5)	1790 (33.5)		2260 (43)	2430 (49)	2390 (50)
140	1380 (26)	1370 (29)		1920 (40.5)	2320 (46)	
145	1060 (21)			1610 (37.5)	2020 (43)	
150				1320 (34.5)	1660 (40)	
155				1050 (31)	1330 (36.5)	
160					1020 (32.5)	
Min. boom angle for indicated length (no load)	20°	28°	47°	30°	31°	49°
Max. boom length at 0° boom angle (no load) Mode A	112.7 ft			112.7 ft		

NOTE: ( ) Boom angles are in degrees. 80051696  
 #LMI operating code. Refer to LMI manual for operating instructions.  
 \*This capacity is based on maximum obtainable boom angle.

# Load chart

 42 m (138 ft)
  10,1 m - 17,1 m (33 ft - 56 ft)
  6516 kg (14,365 lb)
  23 ft 4 in 100%
  360°

 42 m (138 ft)
  10,1 m - 17,1 m (33 ft - 56 ft)
  6,1 m (20 ft)
  6516 kg (14,365 lb)
  23 ft 4 in 100%
  360°

MODE A and B						
Radius in feet	33 ft LENGTH			56 ft LENGTH		
	0° OFFSET	25° OFFSET	45° OFFSET	0° OFFSET	25° OFFSET	45° OFFSET
	#0021	#0022	#0023	#0041	#0042	#0043
35	<sup>°</sup> 8640 (78)					
40	8640 (77.5)					
45	8640 (76)			<sup>°</sup> 5030 (78)		
50	8640 (74.5)	<sup>°</sup> 7450 (78)		5030 (77)		
55	8640 (72.5)	7430 (76.5)	<sup>°</sup> 6530 (78)	5030 (75.5)		
60	8180 (71)	7070 (74.5)	6530 (77.5)	5030 (74)		
65	7740 (69)	6730 (73)	6340 (75.5)	5030 (72.5)	<sup>°</sup> 4500 (78)	
70	7230 (67.5)	6340 (71)	6010 (73.5)	5030 (70.5)	4500 (77)	
75	6880 (65.5)	6070 (69)	5790 (71.5)	5030 (69)	4340 (75)	<sup>°</sup> 3760 (78)
80	6470 (63.5)	5750 (67)	5510 (69.5)	4860 (67.5)	4120 (73.5)	3690 (77.5)
85	6110 (61.5)	5460 (65)	5270 (67.5)	4600 (66)	3920 (72)	3600 (76)
90	5790 (59.5)	5200 (63)	5050 (65.5)	4280 (64.5)	3740 (70)	3500 (74)
95	5370 (57.5)	5030 (61)	4850 (63)	4070 (63)	3570 (68.5)	3370 (72)
100	4640 (55.5)	4810 (59)	4670 (61)	3870 (61.5)	3370 (66.5)	3240 (70.5)
105	3980 (53)	4510 (57)	4510 (58.5)	3640 (60)	3230 (65)	3090 (68.5)
110	3390 (51)	3840 (55)	3930 (56)	3480 (58)	3110 (63)	2980 (66.5)
115	2850 (48.5)	3240 (52.5)	3250 (53.5)	3290 (56.5)	2950 (61.5)	2850 (64.5)
120	2370 (46)	2700 (50)	2620 (51)	2860 (54.5)	2810 (59.5)	2730 (62.5)
125	1920 (43.5)	2200 (47)		2440 (52)	2710 (57.5)	2630 (60)
130	1520 (40.5)	1750 (44.5)		2040 (50)	2590 (55.5)	2530 (58)
135	1150 (38)	1330 (41.5)		1680 (47.5)	2340 (53.5)	2440 (55.5)
140				1350 (45.5)	1940 (51)	2190 (53)
145				1040 (43)	1570 (48.5)	1770 (50.5)
150					1220 (46)	
Min. boom angle for indicated length (no load)	37°	38°	50°	42°	44°	49°
Max. boom length at 0° boom angle (no load) Mode B	99.6 ft			86.9 ft		
Max. boom length at 0° boom angle (no load) Mode A	112.7 ft			112.7 ft		

MODE A and B			
Radius in feet	76 ft LENGTH (56' ext + 20' insert)		
	0° OFFSET	25° OFFSET	45° OFFSET
	#0084	#0085	#0086
50	<sup>°</sup> 3550 (78)		
55	3550 (77)		
60	3550 (76)		
65	3550 (74.5)		
70	3550 (73)		
75	3550 (72)	<sup>°</sup> 3390 (78)	
80	3550 (70.5)	3380 (77)	
85	3440 (69)	3160 (75.5)	<sup>°</sup> 2660 (78)
90	3280 (68)	2960 (74)	2610 (77)
95	3060 (66.5)	2780 (72.5)	2580 (75.5)
100	2870 (65)	2610 (71)	2540 (73.5)
105	2690 (63.5)	2460 (69.5)	2410 (72)
110	2520 (62)	2320 (67.5)	2290 (70.5)
115	2370 (60.5)	2190 (66)	2170 (68.5)
120	2230 (59)	2070 (64.5)	2060 (67)
125	2100 (57.5)	1960 (62.5)	1960 (65)
130	1950 (56)	1850 (61)	1830 (63)
135	1800 (54)	1760 (59)	1740 (61)
140	1510 (52.5)	1640 (57.5)	1640 (59.5)
145	1240 (50.5)	1560 (55.5)	1540 (57)
150		1360 (53.5)	1470 (55)
155		1080 (51.5)	1310 (53)
160			1000 (50.5)
Min. boom angle for indicated length (no load)	49°	50°	49°
Max. boom length at 0° boom angle (no load) Mode B	74.1 ft		
Max. boom length at 0° boom angle (no load) Mode A	100.0 ft		

NOTE: ( ) Boom angles are in degrees.  
 #LMI operating code. Refer to LMI manual for operating instructions.  
<sup>°</sup>This capacity is based on maximum obtainable boom angle.

80051697

NOTE: ( ) Boom angles are in degrees.  
 #LMI operating code. Refer to LMI manual for operating instructions.  
<sup>°</sup>This capacity is based on maximum obtainable boom angle.

80051701

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

# Load chart





  
 11 m - 42 m (36 ft - 138 ft)    6516 kg (14,365 lb)    Stationary    360°





Radius in feet	Main boom length in feet - LMI code #9005			
	36.3	49.1	61.8	74.5
Tele 1	0%	0%	0%	0%
Tele 2	0%	17%	33%	50%
Tele 3	0%	17%	33%	50%
Tele 4	0%	17%	33%	50%
Mode	A, B	A	A	A
10	49,800 (69.5)	36,000 (75)		
12	45,650 (66)	32,550 (72.5)	32,500 (76.5)	
15	31,750 (60.5)	29,050 (68.5)	29,550 (73.5)	<sup>*</sup> 27,850 (78)
20	18,750 (50)	19,950 (62)	21,050 (68.5)	21,600 (72.5)
25	12,000 (37.5)	13,350 (55)	14,500 (63.5)	14,900 (68.5)
30	7840 (16)	9350 (47.5)	10,400 (58)	10,850 (64.5)
35		6620 (38)	7590 (52)	8010 (60)
40		4650 (25.5)	5560 (46)	5950 (55.5)
45			4030 (38.5)	4390 (50.5)
50			2840 (29.5)	3160 (45)
55			1870 (14.5)	2180 (39)
60				1380 (31.5)
Minimum boom angle (°) for indicated length (no load)				30
Maximum boom length (ft) at 0° boom angle (no load)				61.8

NOTE: ( ) Boom angles are in degrees.  
<sup>\*</sup>This capacity is based on maximum boom angle #LMI operating code. Refer to LMI manual for operating instructions.

Boom angle	Lifting capacities at 0° boom angle		
	36.3	49.1	61.8
0°	7490 (30.5)	3630 (43.2)	1520 (56)

NOTE: ( ) Reference radii in feet.

80051702





  
 11 m - 42 m (36 ft - 138 ft)    6516 kg (14,365 lb)    Pick and carry up to 2.5 mph over 29.5 x 25 tires front

Radius in feet	Main boom length in feet - LMI code #9006			
	36.3	49.1	61.8	74.5
Tele 1	0%	0%	0%	0%
Tele 2	0%	17%	33%	50%
Tele 3	0%	17%	33%	50%
Tele 4	0%	17%	33%	50%
Mode	A, B	A	A	A
10	54,800 (69.5)	35,400 (75)		
12	49,800 (66)	35,400 (72.5)	23,550 (76.5)	
15	41,300 (60.5)	35,400 (68.5)	23,550 (73.5)	<sup>*</sup> 19,000 (78)
20	31,200 (50)	32,500 (62)	23,550 (68.5)	19,000 (72.5)
25	24,100 (37.5)	25,700 (55)	23,550 (63.5)	19,000 (68.5)
30	17,550 (16)	19,550 (47.5)	20,750 (58)	19,000 (64.5)
35		14,550 (38)	15,900 (52)	16,300 (60)
40		10,300 (25.5)	12,450 (46)	12,950 (55.5)
45			9600 (38.5)	10,050 (50.5)
50			7920 (29.5)	8430 (45)
55			6380 (14.5)	6880 (39)
60				5610 (31.5)
65				4560 (22)
Minimum boom angle (°) for indicated length (no load)				0
Maximum boom length (ft) at 0° boom angle (no load)				74.5

NOTE: ( ) Boom angles are in degrees.  
<sup>\*</sup>This capacity is based on maximum boom angle #LMI operating code. Refer to LMI manual for operating instructions.

Boom angle	Lifting capacities at 0° boom angle			
	36.3	49.1	61.8	74.5
0°	16,950 (30.5)	8870 (43.2)	6110 (56)	3890 (68.7)

NOTE: ( ) Reference radii in feet.

80051703

## NOTES TO ALL RUBBER CAPACITY CHARTS:

- Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- Capacities are applicable to machines equipped with 29.5 x 25 (28 or 34) bias ply tires at, 65 psi cold inflation pressure.
- Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- Capacities are applicable only with machine on firm level surface.
- On rubber lifting with boom extensions not permitted.

6. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging.

7. Axle lockouts must be functioning when lifting on rubber.

8. All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity chart for tire used. Damaged tires are hazardous to safe operation of crane.

9. Creep - not over 200 ft of movement in any 30 minute period and not exceeding 1 mph.

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

# Rigging chart

## RIGGING CHART

INSTALLATION AND REMOVAL OF  
HYDRAULIC REMOVABLE CWT

ON O/R'S FULLY EXTENDED - 360°

Radius in feet	#0801	
	Main boom length in feet	
	*36.3	49.1
Tele 1	0%	0%
Tele 2	0%	17%
Tele 3	0%	17%
Tele 4	0%	17%
Mode	A, B	A
10	20,500 (69.5)	20,500 (75)
12	20,500 (66)	20,500 (73)
15	20,500 (60.5)	20,500 (69)
20	20,500 (50)	20,500 (62.5)
25	20,500 (37.5)	20,500 (55.5)
30	20,500 (16)	20,500 (47.5)
35		20,500 (38)

NOTE: ( ) Boom angles are in degrees.

#LMI operating code. Refer to LMI manual for operating instructions.

Boom angle	Main boom length in feet	
	*36.3	
0°	20,500 (30.5)	

80051952

NOTE: ( ) Reference radii in feet.

\*Boom must be fully retracted.

# Load handling

Weight reductions for load handling devices		
33 ft - 56 ft : Folding boom extension:		
	Without block or ball	With 355 lb overhaul ball
*33 ft extension (erected)	4230 lb	5940 lb
*56 ft extension (erected)	9280 lb	12,100 lb
Folding extension with 20 ft insert:		
*56 ft extension (erected)	10,170 lb	12,260 lb
*Reduction of main boom capacities (no deduct required for stowed boom extension).		
Auxiliary boom nose:		
	130 lb	
Hookblocks and headache balls:		
65 USt, 5-sheave	1280 lb +	
8.3 USt, overhaul ball	355 lb +	

+Refer to rating plate for actual weight

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

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

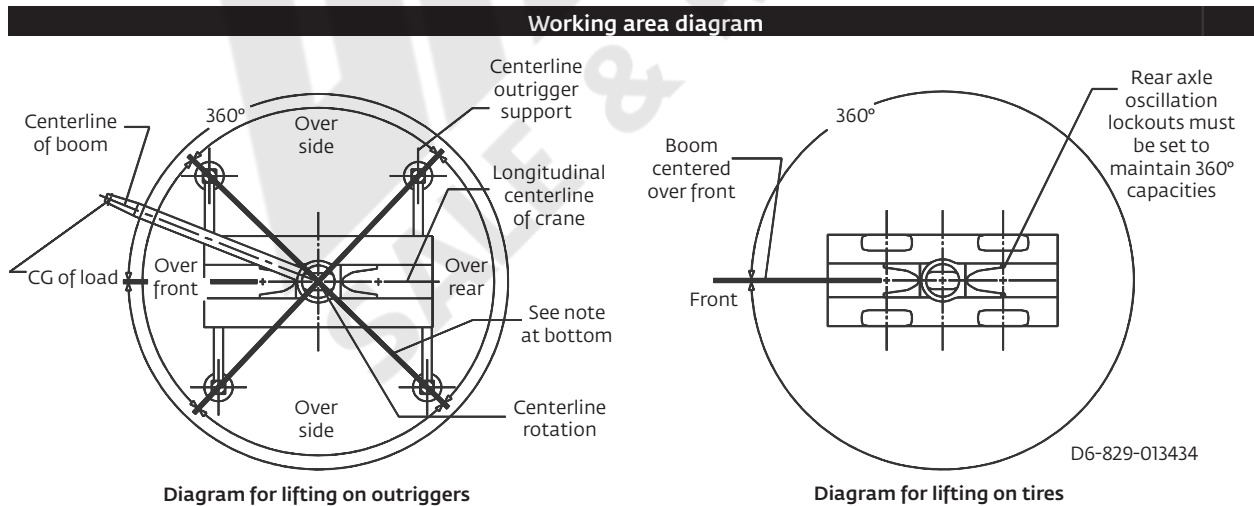
Line pulls and reeving information			
Hoists	Cable specs	Permissible line pulls	Nominal cable length
Main	19 mm (3/4 in) 6 x 37 class, EIPS, IWRC Special Flexible Min. breaking strength 58,800 lb	16,800 lb	650 ft
Main and auxiliary	19 mm (3/4 in) 35x7 Class Rotation Resistant (non-rotating) Min. breaking strength 85,800 lb	16,800 lb	653 ft

The approximate weight of 3/4 in wire rope is 1.5 lb/ft.

Hoist performance				
Wire rope layer	Hoist line pulls two-speed hoist		Drum rope capacity (ft)	
	Low available lb*	High available lb*	Layer	Total
1	18,134	9067	101	101
2	16,668	8334	110	211
3	15,420	7710	120	331
4	14,347	7174	129	460
5	13,413	6707	139	599
6	12,594	6297	149	748

\*Max lifting capacity: 6x37 and 35x7 class = 16,800 lb




































Tire inflation - PSI (BAR)		
Size (Front and Rear)	TRA Code	Lifting service, general travel and extended travel
29.5 x 25 (28 or 34) General/Titan, Denman Broadway/Rock Plus	E-3	65 (4.5) See operator's manual for extended roading.



Bold lines determine the limiting position of any load for operation withing working areas indicated.



# Symbols glossary

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





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