

Absolutely The Best Crane Mats In The World.

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#### Features

- 45 t (50 USt) capacity
- 9,4 m 30,4 m (30 ft 10 in 99 ft 9 in) four-section full power boom
- 13 m (42 ft 8 in) offsettable boom extension
- 100% pick and carry load charts
- Cummins QSB 4.5L Tier 4 final compliant engine



#### Absolutely The Best Crane Mais in The World.

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## **GROVE GHC50**

A compact powerhouse, the GHC50 transports to the jobsite on one truck, with low gross vehicle weight and ground-bearing pressure and a boom measuring 9,4 m - 30,4 m (30 ft 10 in - 99 ft 9 in).

### **Features**

#### Comfort redefined

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

#### > Travel made easy

Transportation to the jobsite can easily be accomplished in one load. Once on the jobsite, the GHC50's narrow dimensions provide excellent maneuverability in confined areas. The strong undercarriage provides 100 percent pick and carry capability and work up to 4° of inclination. The hydraulically extendable tracks allow for three working gauges for maximum flexibility on the job.

#### Strong telescopic boom

The GHC50 comes equipped with a robust fullpower four-section boom that allows for telescoping under load. The main boom offers 9,4 m - 30,4 m(30 ft 10 in – 99 ft 9 in) of reach. This paired with the standard 6,5 m (21 ft 4 in) offsettable swingaway extension provides a maximum tip height of 39,3 m (129 ft).

## CraneST R

#### CraneSTAR is an exclusive and innovative crane asset management system

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







## **GHC50** benefits

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

The GHC50 delivers unsurpassed maneuverability and versatility.

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

#### Rugged durability to tackle all terrain

The GHC50 comes equipped with a durable, powerful crawler system.

- Hydraulically extendable and retractable crawlers
- Heavy-duty, 900 mm (36 in) triple bar, maintenance-free track shoes
- Cummins QSB Tier 3 or Tier 4 final diesel engines power through terrain challenges

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

The GHC50 helps you spend less time on the truck and more time on the job.

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





#### Manitowoc Crane Care when you need it.

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



Manitowoc Finance helps you get right to work generating profits for your business. Financial tools that help you capitalize on opportunity with solutions that fit your needs.

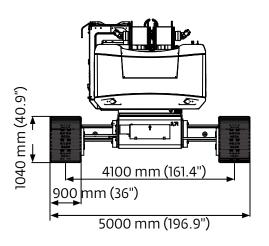
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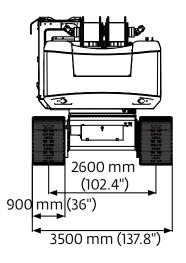
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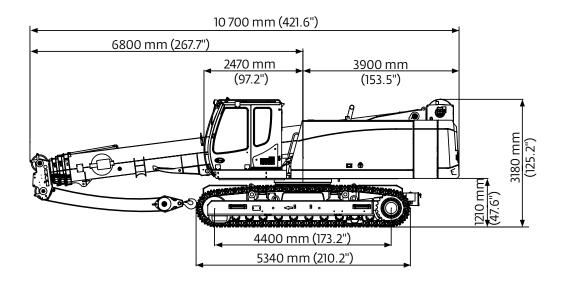
## Dimensions

#### Transport dimensions and weights

Operating / Transport weight: Approximately 45 770 kg (100,905 lb) with 6,5 m (21 ft 4 in) boom extension, two hoists, 900 mm (36 in) triple bar shoes and 8900 kg (19,621 lb) counterweight.

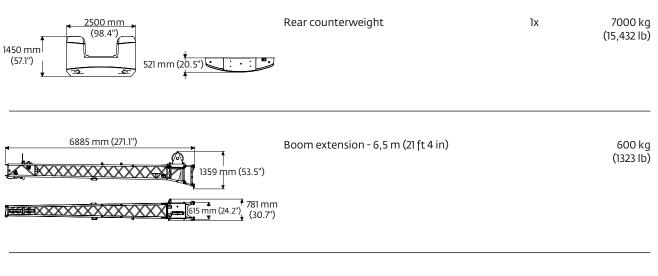


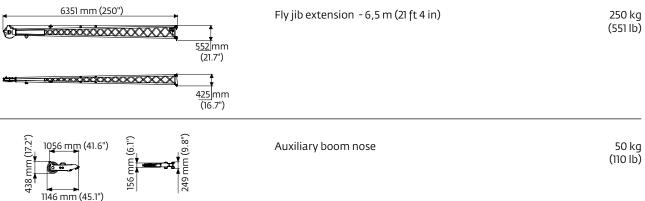




## Dimensions

Transport dimensions and weights





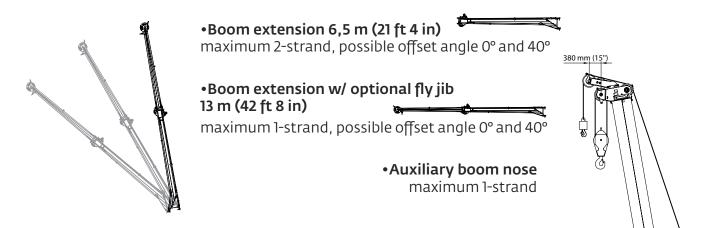
## Load programs

Working load pi	rograms											
	Main boom		Main boom Auxiliary t		ary boom	n nose	Boom extension 6,5 m (21 ft 4 in)		Boom extension with optional fly jib 13 m (42 ft 8 in)			
Counterweight				¢ J		١						
Undercarriage track width (centerline to centerline of crawlers)	4,1 m (13' 6")	3,3 m (10' 10")	2,6 m (8' 6")	4,1 m (13' 6")	3,3 m (10' 10")	2,6 m (8' 6")	4,1 m (13' 6")	3,3 m (10' 10")	2,6 m (8' 6")	4,1 m (13' 6")	3,3 m (10' 10")	2,6 m (8' 6")
8,9 t (19,621 lb)	360°	360°	360°	360°	360°	360°	360°	_		360°	_	_

#### Note:

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

Boom extension options



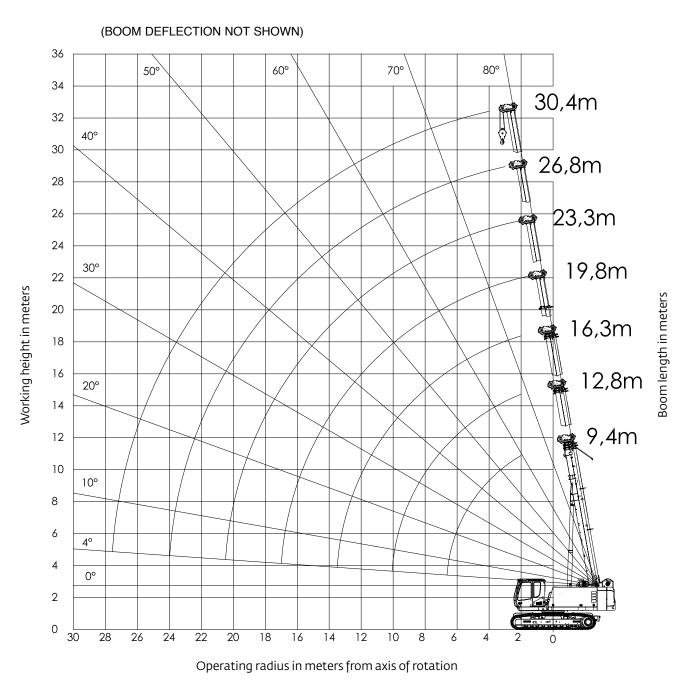
Capacity	Weight	Cable reeving and maximum safe working load									
	10	9	8	7	6	5	4	3	2	1	
5 t (5.5 USt)	80 kg (176 lb)	_	_	_	_	_	_	_	_	_	5000 kg (11,000 lb)
35 t (38.5 USt) 3-sheave	270 kg (595 lb)	_	_	_	35 000 kg (77,000 lb)	30 000 kg (66,000 lb)	25 000 kg (55,000 lb)	20 000 kg (44,000 lb)	15 000 kg (33,000 lb)	10 000 kg (22,000 lb)	5000 kg (11,000 lb)
60 t (66.1 USt) 6-sheave *optional	850 kg (1874 lb)	50 000 kg (110,000 lb)	45 000 kg (99,000 lb)	40 000 kg (88,000 lb)	35 000 kg (77,000 lb)	30 000 kg (66,000 lb)	25 000 kg (55,000 lb)	20 000 kg (44,000 lb)	15 000 kg (33,000 lb)	10 000 kg (22,000 lb)	5000 kg (11,000 lb)

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

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

## Working range Main boom – metric 75%

#### Main boom



Load chart Main boom – metric 75%





8,9 t



100%

30,4 m

360°

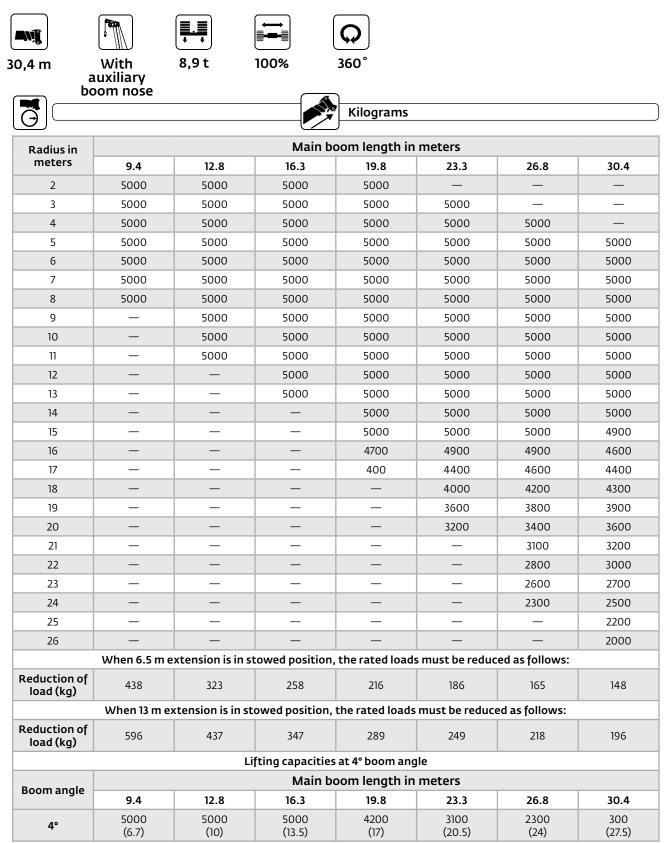


				Kilograms			
Radius in meters				oom length in			
	9.4	12.8	16.3	19.8	23.3	26.8	30.4
2	45 000	31 0 0 0	28 000	15 600	14 500	_	_
3	45 000	31 000	25 000	15 600	14 500	12 700	_
4	38 000	31 000	22 000	15 600	14 500	12 600	9200
5	30 000	28 000	19 300	15 600	14 200	12 400	9200
6	22 000	22 500	16 900	14 900	13 600	11 900	9200
7	—	17 500	15 000	13 600	12 500	11 100	9100
8	—	14 200	13 500	12 200	11 200	10 300	8700
9	_	11 700	11 700	11 100	10 200	9400	8200
10	_	—	9900	10100	9300	8600	7800
11	—	—	8500	8900	8500	8000	7300
12	—	—	7400	7700	7900	7300	6800
13	—	—	6400	6800	7100	6800	6400
14	—	—	—	6000	6200	6300	5900
15	—	_	—	5400	5600	5800	5600
16	—	—	—	4800	5000	5200	5200
17	—	—	—	—	4500	4700	4900
18	—	—	—	—	4100	4300	4400
19	—	—	—	—	3700	3900	4100
20	—	—	—	—	3300	3600	3700
21	—	—	—	—	—	3300	3400
22	—	—	—	—	—	3000	3100
23	—		_		—	2700	2900
24	—	_	—	_	—	_	2600
25	—		_		_	_	2400
26	—	_	—		—	—	2200
	When 6.5 m ex	tension is in st	owed position,	the rated loads	s must be reduc	ed as follows:	
Reduction of load (kg)	438	323	258	216	186	165	148
	When 13 m ex	tension is in sto	owed position, t	the rated loads	must be reduce	ed as follows:	
Reduction of load (kg)	596	437	347	289	249	218	196
		Lif	ting capacities	at 4° boom ang	le		
Deemer			Main bo	om length in	meters		
Boom angle	9.4	12.8	16.3	19.8	23.3	26.8	30.4
4°	18 900 (6.7)	9900 (10)	6200 (13.5)	4500 (17)	3300 (20.5)	2600 (24)	300 (27.5)

NOTE: () reference radii in meters.

## Load chart

Auxiliary boom nose – metric 75%



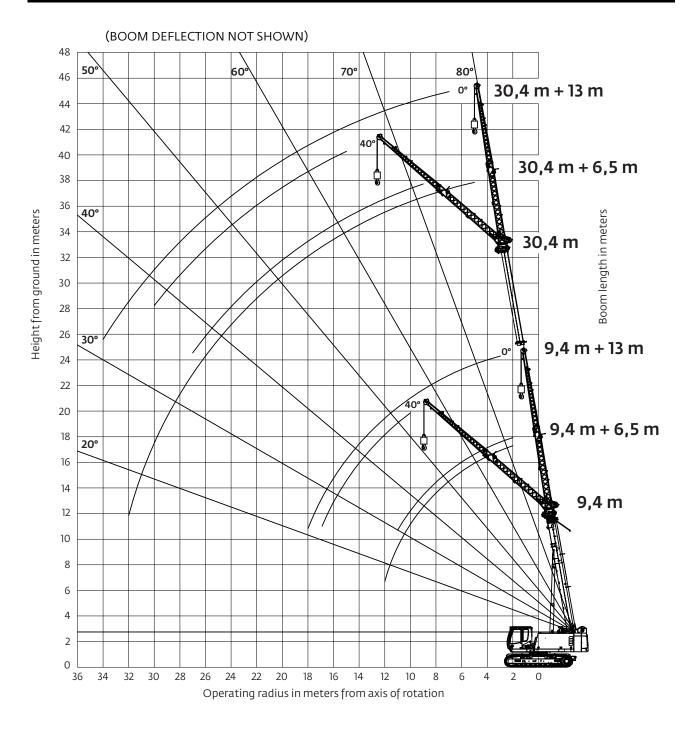
NOTE: () reference radii in meters.

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.

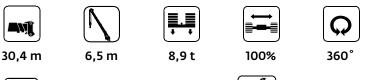
Working range Extensions – metric 75%

#### Main boom with extensions



## Load chart

Extensions – metric 75%



 $\left[ \begin{array}{c} \bullet \\ \bullet \end{array} \right]$ 

	Main boom length in meters										
Radius in meters	9	,4	16	,3	23	3,3	30	,4			
	0°	40°	0°	40°	0°	40°	0°	40°			
2	10 000	_	_	_	-	-	_	_			
3	9900	_	10 000	_	9900	-	_	—			
4	8600	_	9900	_	9400	-	-	—			
5	7700	4600	9400		9000	_	4900	_			
6	6900	4400	8700	4600	8500	-	4800	_			
7	6300	4200	8000	4500	8000	4400	4800	—			
8	5700	4000	7400	4300	7600	4300	4700	—			
9	5200	3900	6900	4200	7200	4200	4700	4000			
10	4800	3800	6400	4100	6800	4100	4700	4000			
11	4500	3700	6000	4000	6500	4000	4700	3900			
12	4100	-	5700	3900	6200	3900	4700	3800			
13	—	-	5300	3800	5900	3900	4600	3800			
14	—	-	5000	3800	5700	3800	4400	3700			
15	—	-	4800	3700	5400	3700	4200	3700			
16	—	-	4600	3700	5000	3700	4000	3600			
17	—	-	4200	—	4600	3600	3800	3500			
18	—	-	4000	_	4200	3600	3700	3400			
19	—	—	—	—	3700	3600	3500	3300			
20	—	-	—	_	3500	3500	3400	3200			
21	—	-	—	—	3200	3300	3200	3100			
22	—	-	—	_	2900	-	3000	3000			
23	—	-	—	—	2600	-	2700	2800			
24	—	-	—	-	2400	-	2400	2600			
25	—	-	—	—	-	-	2200	2400			
26	—	-	—	_	-	-	2000	2200			
27	—	-	-	-	-	-	1800	2000			
28	_	-	_	_	-	-	1700	_			
29	—	-	—	—	-	-	1500	-			
30	—	-	_	-	-	-	1400	_			
31	—	-	-	—	-	-	1200	-			
32	—	-	_	_	-	-	1100	—			

Kilograms

**Load chart** Extensions – metric 75%







8,9 t

100%



Kilograms

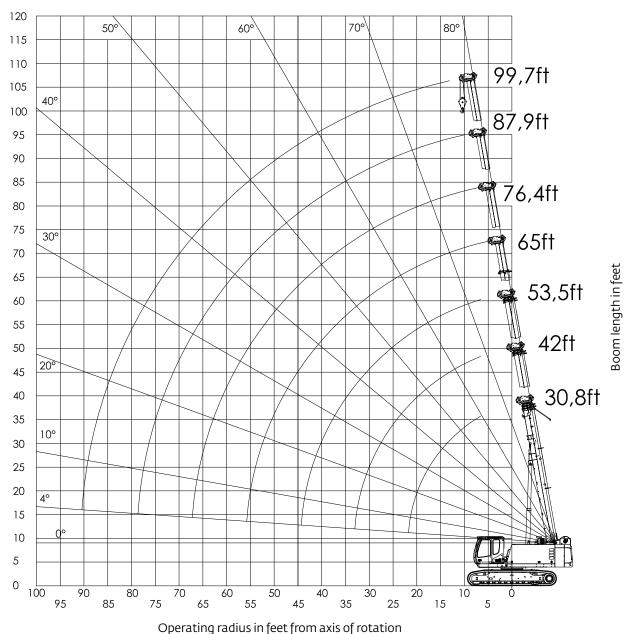
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5     4000      4400      3800          6     3700      4100      3700          7     3400      3800      3600      2100        8     3100      3600      3400      2100        9     2900      3400      3300      2100        10     2700     1800     3200      3000      2100        11     2500     1700     3000      3000      2100        12     2300     1700     2600     1700     2000     1600     2100        13     2200     1500     2100     1600     2100     1500     2100     1500       16     1800     150     2100     1600     2100     1500	3	4600	-	-	-	-	-	-	_
6     3700      4100      3700         7     3400      3800      3600      2100        8     3100      3600      3400      2100        9     2900      3400      3300      2100        10     2700     1800     3200      3000      2100        11     2500     1700     2800     1700     2900      2100        13     2200     1700     2600     1700     2000     1600        14     2000     1600     2400     1600     2100     1500     2100     1500       16     1800     1500     2300     1600     2100     1500     2100     1500     2100     1500       17     1700     1500     2100     1500     2100     1500 </td <td>4</td> <td>4400</td> <td>-</td> <td>4600</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>—</td>	4	4400	-	4600	-	-	-	-	—
7     3400      3800      3600      2100        8     3100      3600      3400      2100        9     2900      3400      3300      2100        10     2700     1800     3200      3000      2100        11     2500     1700     3000      3000      2100        12     2300     1700     2600     1700     2500     1700     2100        14     2000     1600     2500     1700     2500     1600     2100     1500       16     1800     1500     2300     1600     2100     1500     2100     1500       17     1700     1500     2100     1500     2100     1500     2100     1500       18     1600      2000     1500     2100     1	5	4000	-	4400	-	3800	-	-	-
8     3100     -     3600     -     3400     -     2100     -       9     2900     -     3400     -     3300     -     2100     -       10     2700     1800     3200     -     3100     -     2100     -       11     2500     1700     3000     -     3000     -     2100     -       12     2300     1700     2800     1700     2900     -     2100     -       13     2200     1700     2600     1700     2900     -     2100     -       14     2000     1600     2500     1700     2600     1600     2100     1500       15     1900     1600     2400     1600     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1600     1600     1600     1600     1600     1600     1600     1600     1600     1600     1600	6	3700	-	4100	_	3700	_	-	_
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10     2700     1800     3200      3100      2100        11     2500     1700     3000      3000      2100        12     2300     1700     2800     1700     2900      2100        13     2200     1700     2600     1700     2600     1600     2100        14     2000     1600     2500     1700     2600     1600     2100        15     1900     1600     2400     1600     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     14	8	3100	-	3600	_	3400	_	2100	_
11     2500     1700     3000      3000      2100        12     2300     1700     2800     1700     2900      2100        13     2200     1700     2600     1700     2700     1700     2100        14     2000     1600     2500     1700     2600     1600     2100        15     1900     1600     2400     1600     2500     1600     2100     1500       16     1800     1500     2300     1600     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1500     2100     1400     1400     1400     1400     1400     1400     1400     1400     1400     1400     1400     1400     1400     1400	9	2900	-	3400	-	3300	-	2100	-
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## Working range Main boom – imperial 75%

#### Main boom

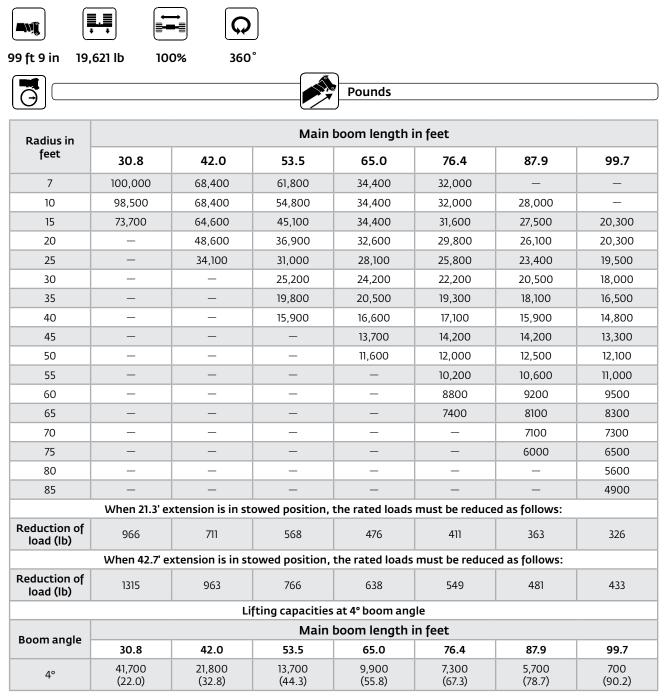
Working height in feet



(BOOM DEFLECTION NOT SHOWN)

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

#### Load chart Main boom – imperial 75%



NOTE: () reference radii in feet.

## Load chart

Auxiliary boom nose – imperial 75%



55 [0 5 11

boom nose

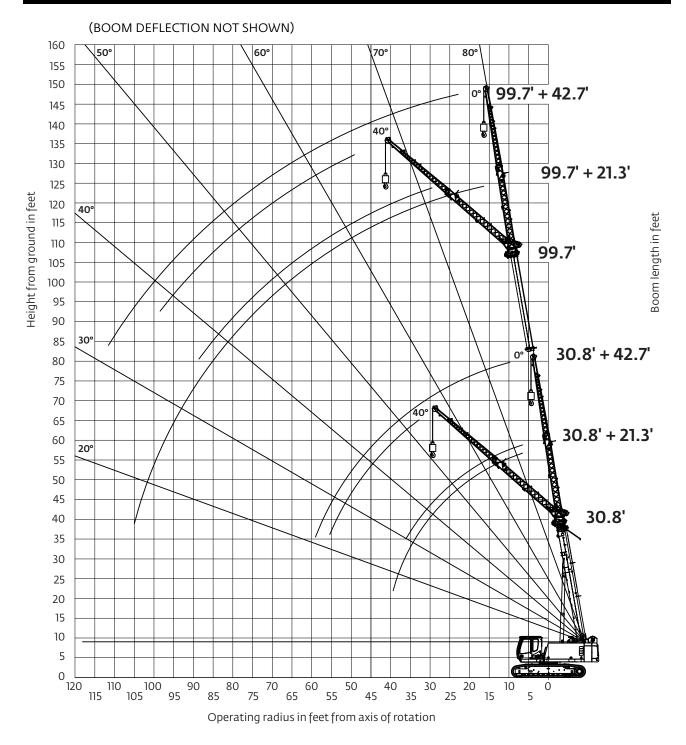


Radius in	Main boom length in feet									
feet	30.8	42.0	53.5	65.0	76.4	87.9	99.7			
7	11,000	11,000	11,000	11,000	_	_	—			
10	11,000	11,000	11,000	11,000	11,000	—	_			
15	11,000	11,000	11,000	11,000	11,000	11,000	_			
20	11,000	11,000	11,000	11,000	11,000	11,000	11,000			
25	11,000	11,000	11,000	11,000	11,000	11,000	11,000			
30	_	11,000	11,000	11,000	11,000	11,000	11,000			
35	—	11,000	11,000	11,000	11,000	11,000	11,000			
40	—	—	11,000	11,000	11,000	11,000	11,000			
45	—	—	—	11,000	11,000	11,000	11,000			
50	—	—	—	10,900	11,000	11,000	10,700			
55	_	_	_	9500	10,000	10,300	9800			
60	_	—	_	_	8600	9000	9200			
65	—	—	—	—	7200	7700	8100			
70	—	—	—	_	—	6600	6900			
75	—	—	—	—	—	5800	6000			
80	—	—	—	_	—	—	5300			
85	—	—	—	—	—	—	4500			
	When 21.3' ex	ctension is in st	owed position,	the rated loads	must be reduce	d as follows:				
Reduction of load (lb)	966	711	568	476	411	363	326			
	When 42.7' ex	ctension is in st	owed position,	the rated loads	must be reduce	d as follows:				
Reduction of load (Ib)	1315	963	766	638	549	481	433			
		Li	fting capacities	at 4° boom an <u>c</u>	jle					
Boom angle			Mair	boom length ir	n feet					
200m ungic	30.8	42.0	53.5	65.0	76.4	87.9	99.7			
4°	11,000 (22.0)	11,000 (32.8)	11,000 (44.3)	9,300 (55.8)	6,800 (67.3)	5,100 (78.7)	700 (90.2)			

NOTE: ( ) reference radii in feet.

Working range Extensions – imperial 75%

#### Main boom with extensions



## **Load chart** Extensions – imperial 75%









Pounds

	Main boom length in feet								
Radius in feet	30	.8	53	.5	76	.4	99	99.7	
	0°	40°	0°	40°	0°	40°	0°	40°	
7	22,100	—	_	_	—	—	—	_	
10	21,700	—	22,000	—	21,800	—	—	—	
15	17,900	—	21,100	_	20,200	—	—	_	
20	15,100	9700	19,100	10,100	18,700	—	10,700	—	
25	13,000	9100	16,800	9700	17,100	9600	10,500	—	
30	11,400	8600	15,000	9200	15,700	9300	10,400	8800	
35	10,200	8300	13,600	8900	14,600	9000	10,400	8700	
40	—	—	12,300	8600	13,500	8700	10,300	8400	
45	—	—	11,300	8300	12,700	8400	9800	8200	
50	-	—	10,400	8200	11,800	8200	9100	8000	
55	—	—	9500	_	10,400	8100	8500	7700	
60	—	—	—	—	8900	7900	8000	7400	
65	—	—	—	—	7800	7800	7500	7100	
70	—	—	—	—	6800	—	7000	6800	
75	-	_	_	_	5800	—	6000	6200	
80	_	_	_	-	-	—	5100	5600	
85	_	—	_	_	-	_	4500	4900	
90	-	_	_	_	-	_	3900	_	
95	-	—	_	-	-	—	3300	_	
100	-	_	-	_	_	_	2900	-	

**Load chart** Extensions – imperial 75%





Main boom length in feet Radius 30.8 53.5 76.4 99.7 in feet 0° 0° 40° **0°** 40° **0°** 40° 40° 10 10,200 \_ \_ \_ \_ \_ 15 9100 9900 \_ \_ \_ \_ \_ \_ 20 8000 9000 8100 \_ \_ \_ \_ 25 7100 8100 7700 4600 \_ \_ \_ \_ 7200 30 6300 \_ 7400 \_ 4600 \_ \_ 5600 6700 35 3900 6700 4600 \_ \_ \_ 40 5000 3700 6100 3800 6200 4600 \_ \_ 5800 45 4600 3600 5600 3700 3600 4600 \_ 50 4200 3400 5200 3500 5500 3500 4600 3300 3400 5100 55 3800 3300 4800 3400 4600 3300 4400 3300 4800 4600 3200 60 \_ \_ 3300 65 4100 3200 4600 3200 4400 3100 \_ \_ 70 3900 3100 4300 3200 4200 3100 \_ \_ 75 4100 3100 4000 3100 3600 \_ \_ \_ 3900 3000 3900 2900 80 \_ \_ \_ \_ 85 3800 3000 3800 2900 \_ \_ \_ \_ 90 3400 3500 2900 \_ \_ \_ \_ \_ 95 3200 \_ 3400 2900 \_ \_ \_ \_ 100 3300 2900 \_ \_ \_ \_ \_ \_ 105 3100 \_ \_ \_ \_ \_ \_ \_ 110 \_ 2800 \_ \_ \_ \_ \_ \_ 115 \_ \_ \_ \_ \_ 2400 \_ \_ 120 2100 \_ \_ \_ \_ \_ \_ \_ 125 1900 \_

Pounds

## Load handling

#### Weight reductions for load handling devices

6,5 m - 13,0 m (21.3 ft -	42 7 ft) Boom ovt	ancion:					
0,5 III - 13,0 III (21.5 JL -	Without block or ball						
*6,5 m (21.3 ft) extension (erected)	800 kg (1764 lb)	942 kg (2077 lb)					
*13,0 m (42.7 ft) extension (erected)	1532 kg (3377 lb)						
Hook blocks and Headach	ne ball:						
60 t (66 USt), 6-sheave	850 kg+ (1875 lb+)						
35 t (38.5 USt), 3-sheave	270 kg+ (595 lb+)						
5 t (5.5 USt), headache ball	80 kg+ (176 lb+)						

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

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

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

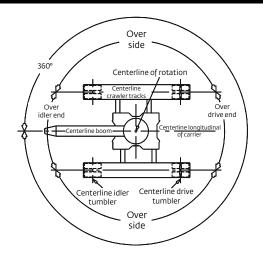
Line pulls and reeving information							
Hoists	Cable specs	Permissible line pulls	Nominal cable length				
Main and auxiliary	16 mm (5/8") Verotop Rotation Resistant (non-rotating) Min. breaking strength 24 900 kg (54,895 lb)	5000 kg (11,000 lb*)	170 m (557 ft)				
Main and auxiliary	16 mm (5/8") 35x7 Class Rotation Resistant (non-rotating) Min. breaking strength 27760 kg (61,200 lb)	5000 kg (11,000 lb*)	170 m (557 ft)				

The approximate weight of Verotop 16 mm (5/8") wire rope is 1,25 kg/m (0.84 lb/ft). The approximate weight of 35x7 class 16 mm (5/8") wire rope is 1,5 kg/m (1.0 lb/ft).

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

Hoist performance							
Wire rope layer		ne pulls eed hoist	Drum rope capacity				
	Low available*	High available*	Layer	Total			
1	6455 kg	3742 kg	26,5 m	26,5 m			
	(14,230 lb)	(8250 lb)	(86.8 ft)	(86.8 ft)			
2	6056 kg	3511 kg	28,2 m	54,7 m			
	(13,352 lb)	(7741 lb)	(92.5 ft)	(179.3 ft)			
3	5704 kg	3307 kg	29,9 m	84,6 m			
	(12,575 lb)	(7291 lb)	(98.2 ft)	(277.5 ft)			
4	5390 kg	3125 kg	31,7 m	116,3 m			
	(11,884 lb)	(6890 lb)	(103.9 ft)	(381.4 ft)			
5	5109 kg	2962 kg	33,4 m	149,7 m			
	(11,264 lb)	(6531 lb)	(109.7 ft)	(491.1 ft)			
6	4857 kg	2815 kg	35,1 m	184,8 m			
	(10,707 lb)	(6207 lb)	(115.3 ft)	(606.4 ft)			
7	4627 kg	2683 kg	36,9 m	221,7 m			
	(10,201 lb)	(5915 lb)	(121.1 ft)	(727.5 ft)			

Working area diagram



## Specifications

#### Upper carriage

#### Standard boom

9,4 m – 30,4 m (30 ft 10 in – 99 ft 9 in) Four-section, full power, sequenced-synchronized telescopic boom. Maximum tip height: 32,6 m (107 ft)

#### Soom extension

6,5 m (21 ft 4 in) offsettable, lattice, one piece swingaway extension. Extension can be offset at  $0^{\circ}$  and  $40^{\circ}$ . Maximum tip height: 39,3 m (129 ft)

#### ▶ \*Optional boom extension

6,5 m (21 ft 4 in) offsettable, lattice, bi-fold swingaway extension that must be used in conjunction with standard 6,5 (21 ft 4 in) boom extension. This provides a total of 13 m (42 ft 8 in) of additional reach. Maximum tip height: 45,4 m (149 ft) Boom extension can be offset 0° and 40°

#### 🗓 Boom nose

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

#### Boom elevation

One double-acting hydraulic cylinder with integral holding valves.

Elevation: -6° to 80°

Rated capacity limiter and anti-two block system

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

#### 📕 Counterweight

8900 kg (19,621 lb) total (2 pieces)

#### 🕒 Cab

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

#### **t** Swing

Two-speed, compact planetary gears with slant axis hydraulic motor and integrated brake valves. Sealed, externally geared slewing ring that allows for  $360^{\circ}$  of continuous rotation. Electronically applied service brake operated via foot pedal. Spring applied, hydraulically released parking brake. One position, manually pinned house lock. Swing speed: 0 - 2 rpm, variable

## Hydraulic system

Load sensing / LUDV hydraulic system with hydraulic and pilot controlled work functions, and load limit sensing control. Single variable-displacement piston pump with a two-section gear pump.

Maximum output: 315 lpm (83.2 gpm)

Maximum operating pressure: 330 bar (4,786 psi) 510 L (134 gal) steel hydraulic reservoir with sight level gauge. High performance, 3 micron filtration system with water absorption contamination indicator for higher oil purity and extended oil service life.

#### Hoist specifications (main and auxiliary) Two-speed hoists driven via an axial piston hydraulic motor

with compact planetary gear. Spring-loaded disc brake. Grooved drum with drum rotation indicator for both hoists that is located in the joystick controls.

Maximum hoist pull (first layer): 6455 kg (14,230 lb) Maximum permissible single line pull: 4990 kg (11,000 lb) Maximum single line speed: 122 m/min (400 ft/min) Rope construction: 35 X 7 Rotation Resistant Rope diameter: 16 mm (5/8 in) Rope length: 170 m (557 ft)

#### Engine (Tier 4)

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

#### Engine (Tier 3)

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

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

## Specifications

#### **Upper carriage** cont'd

#### 🗲 Electrical system

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

#### 🕑 Lights

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

#### Lower carriage

#### **D** Frame

Durable all steel welded construction with extendable cross members.



#### Side frames

Four steel side frame beams that can be hydraulically extended or retracted via controls in the cab. 900 mm (36 in) triple bar maintenance free track shoes.

Retracted gauge: 2,60 m (8 ft 6 in)

Intermediate gauge: 3,30 m (10 ft 10 in)

Extended gauge: 4,10 m (13 ft 6 in)

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

### V Travel

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

Travel Speed: Max Low Range – 1,37 kmh (0.85 mph) Max High Range – 2,49 kmh (1.55 mph)

Gradeability (theoretical): 70%

#### Operating weight

45 770 kg (100,905 lb) base machine configuration that includes 30,4 m (99 ft 9 in) boom, 6,5 m (21 ft 4 in) extension, 35 t (38.5 USt) hook block, 900 mm (36 in) triple bar shoes, main and auxiliary hoist, and 8900 kg (19,621 lb) counterweight.

Ground bearing pressure (no load): 0,53 kg/cm<sup>2</sup> (7.47 psi)

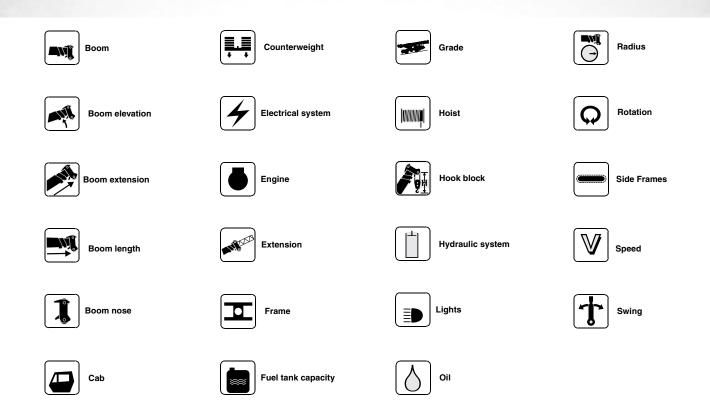
#### Miscellaneous standard equipment

- Central, easily accessible lubricating strip for slewing ring.
- Foldable grated platforms on the side of cab and both sides of the upper carriage.
- Storage box attached to the rear frame.
- Service friendly engine and hydraulic compartments with decoupled engine suspension, sound proofing and lighting.
- 35 t (38.5 USt) three-sheave, quick reeve hook block.
- External RCL light bar.
- CraneStar asset management system.

#### \*Optional equipment

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

## Symbols glossary





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