

# GHC75

## Preliminary Product Guide

ASME B30.5  
Metric 75% and Imperial 75%



### Features

- 70 t (75 USt) capacity
- 11 m - 36 m (36 ft - 118 ft 1 in) four-section full power boom
- 15 m (49 ft 3 in) offsettable boom extension
- 100% pick and carry load charts
- Cummins QSB 6.7L Tier 4 final compliant engine

# GROVE GHC75

The mid-range GHC75 delivers powerful agility and boom length of 11 m - 36 m (36 ft – 118 ft 1 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 20° providing the operator additional comfort when working at long boom and extension lengths.



### > Travel made easy

Transportation to the job site can easily be accomplished in one to two loads. Set up time is minimal thanks to the GHC75's quick self-assembly system and hydraulically installed counterweights. When set up the strong undercarriage provides 100% pick and carry capability and work up to 4° of inclination. The hydraulically extendable tracks allow for maximum flexibility on the job site.



### > Strong telescopic boom

The GHC75 comes equipped with a robust full-power four-section boom that allows for telescoping under load. The main boom offers 11 m – 36 m (36 ft – 118 ft 1 in) of reach. This paired with the standard 8m (26 ft 3 in) offsettable swing away extension provides a max tip height of 46 m (151 ft).



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## Job site benefits

### More productive in more places on the job site

The GHC75 delivers unsurpassed maneuverability and versatility.

- Telescoping boom, plus heavy-duty crawler tracks for all-terrain productivity
- Superior gradeability
- High visibility cabs with up to 20° 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 GHC75 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 job site and quick assembly

The GHC75 helps you spend less time on the truck and more time on the job.

- Transports to the job site in one to two loads
- Retracted gauge for transport width
- Self-assembly counterweight
- Excellent serviceability keeps you up and running



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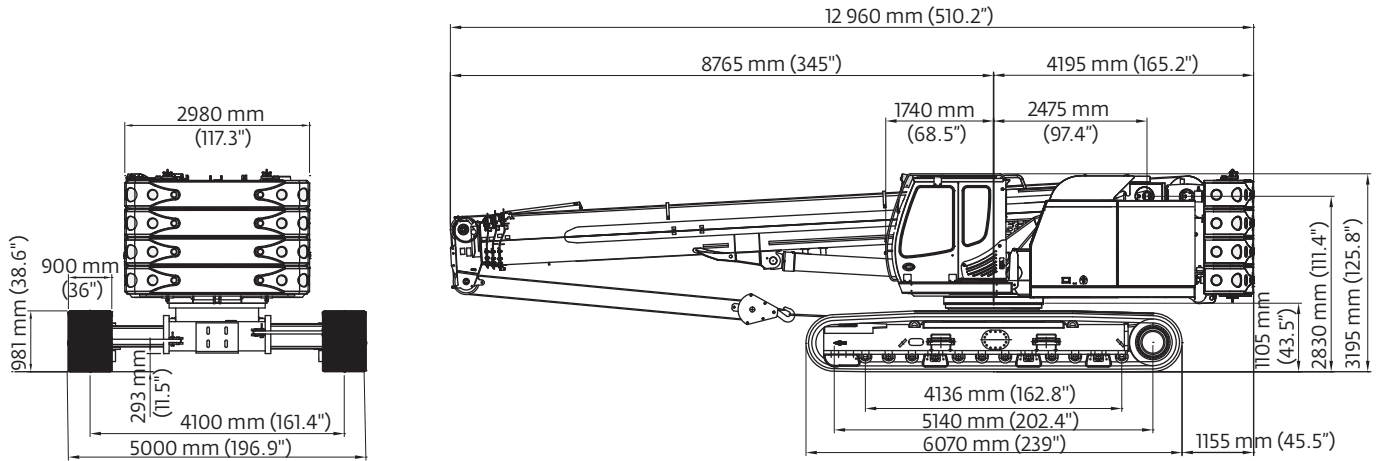
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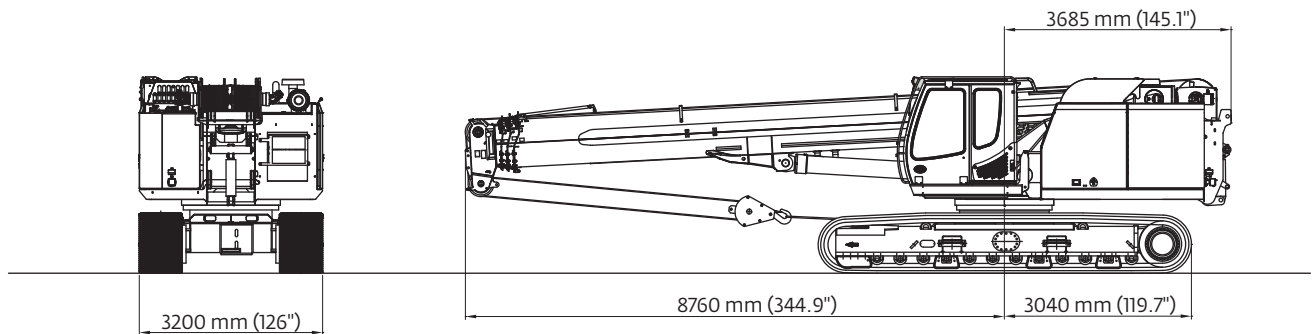
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# Dimensions

## Transport dimensions and weights



Operating weight: approximately 71 760 kg (158,200 lb) (with 8 m (26 ft 3 in) boom extension, 2 hoists, 900 mm (36 in) triple bar shoes, 17 440 kg (38,450 lb) counterweight and 8 000 kg (17,637 lb) carbody counterweight).

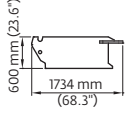
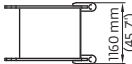
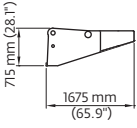
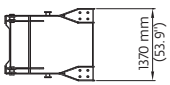
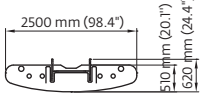
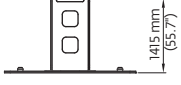
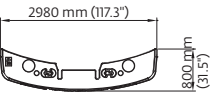

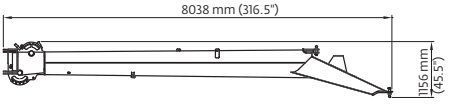
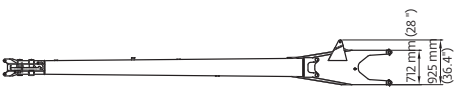
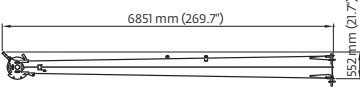

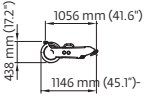
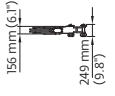


Transport weight: approximately 46 320 kg (102,113 lb) with (8 m (26 ft 3 in) boom extension, 2 hoists, without counterweight, without carbody counterweight).

Transport weight: approximately 54 320 kg (119,750 lb) with (8 m (26 ft 3 in) boom extension, 2 hoists, without counterweight, with carbody counterweight).

# Dimensions

## Transport dimensions and weights

 	Carbody counterweight	2x	4000 kg (8818.5 lb)
 	Counterweight support arm	1x	590 kg (1300 lb)
 	Base plate for counterweight	1x	440 kg (970 lb)
 	Counterweight	4x	4250 kg (9370 lb)
 	Boom extension - 8 m (26 ft 3 in)		730 kg (1609 lb)
 	Fly jib extension - 7 m (23 ft)		305 kg (672 lb)
 	Auxiliary boom nose		50 kg (110 lb)



# Load programs

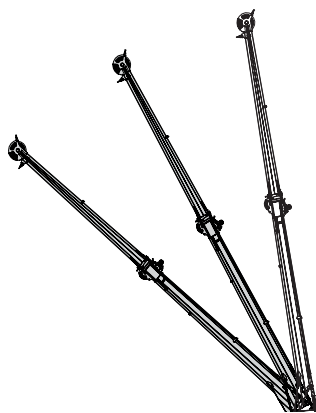
## Working load programs

		Main boom		Auxiliary boom nose		Boom extension 8 m (26 ft 3 in)		Boom extension w/ optional fly jib 15 m (49 ft 3 in)	
Undercarriage track width (centerline to centerline of crawlers)		4,1 m (13' 6")	3,2 m (10' 6")	4,1 m (13' 6")	3,2 m (10' 6")	4,1 m (13' 6")	3,2 m (10' 6")	4,1 m (13' 6")	3,2 m (10' 6")
Counterweight	Carbody counterweight								
 17,4 t (38,450 lb)	 8,0 t (17,637 lb)	360° 	360° 	360° 	360° 	360° 	—	360° 	—
 8,9 t (19,710 lb)	 8,0 t (17,637 lb)	360° 	360° 	360° 	360° 	—	—	—	—
 8,9 t (19,710 lb)	 0 t	360° 	—	360° 	—	—	—	—	—
 0 t	 0 t	360° 	—	360° 	—	—	—	—	—

### Note:

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

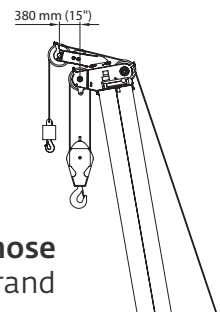
## Boom extension options



• **Boom extension 8 m (26 ft 3 in)**   
maximum 2-strand, possible offset angle 0°/20°/40°

• **Boom extension w/ optional fly jib 15 m (49 ft 3 in)**   
maximum 1-strand, possible offset angle 0°/20°/40°

• **Auxiliary boom nose**  
maximum 1-strand

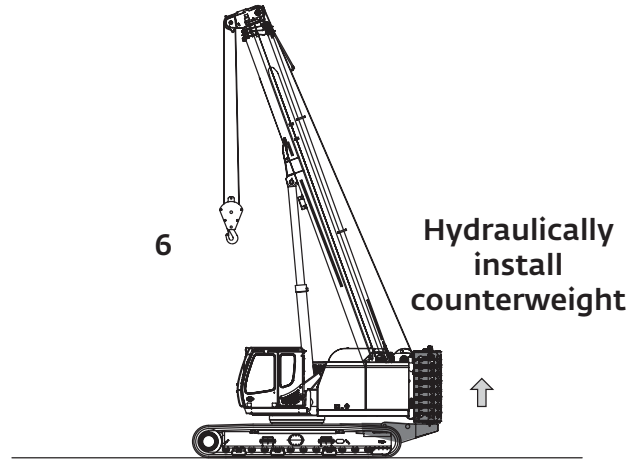
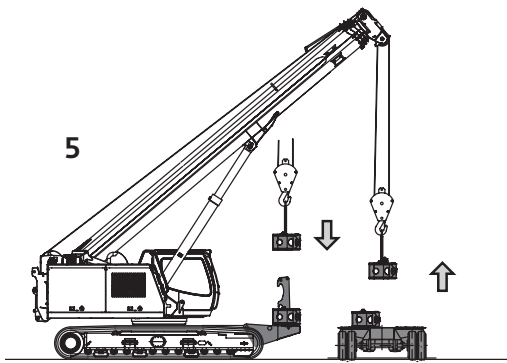
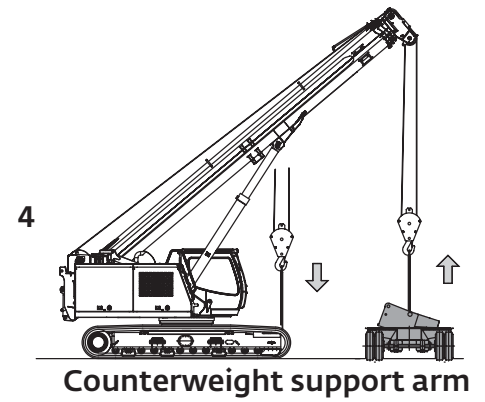
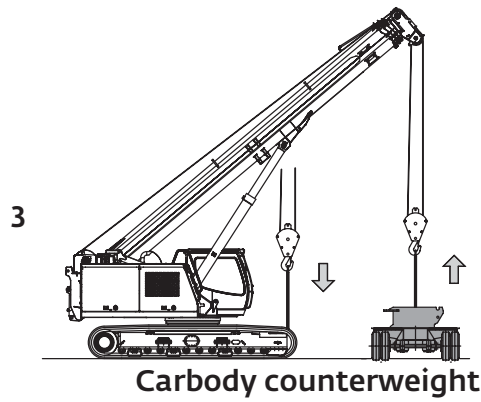
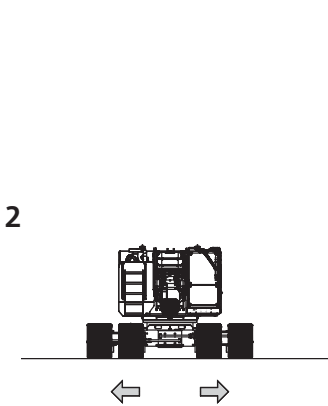
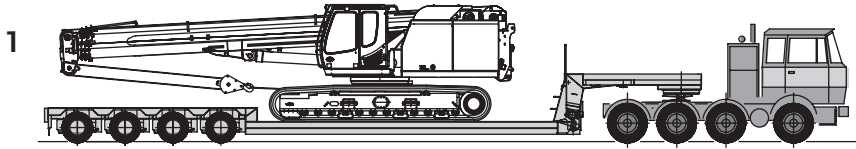


THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE.

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

# Transportation / assembly

## Self assembly system



## Hooks

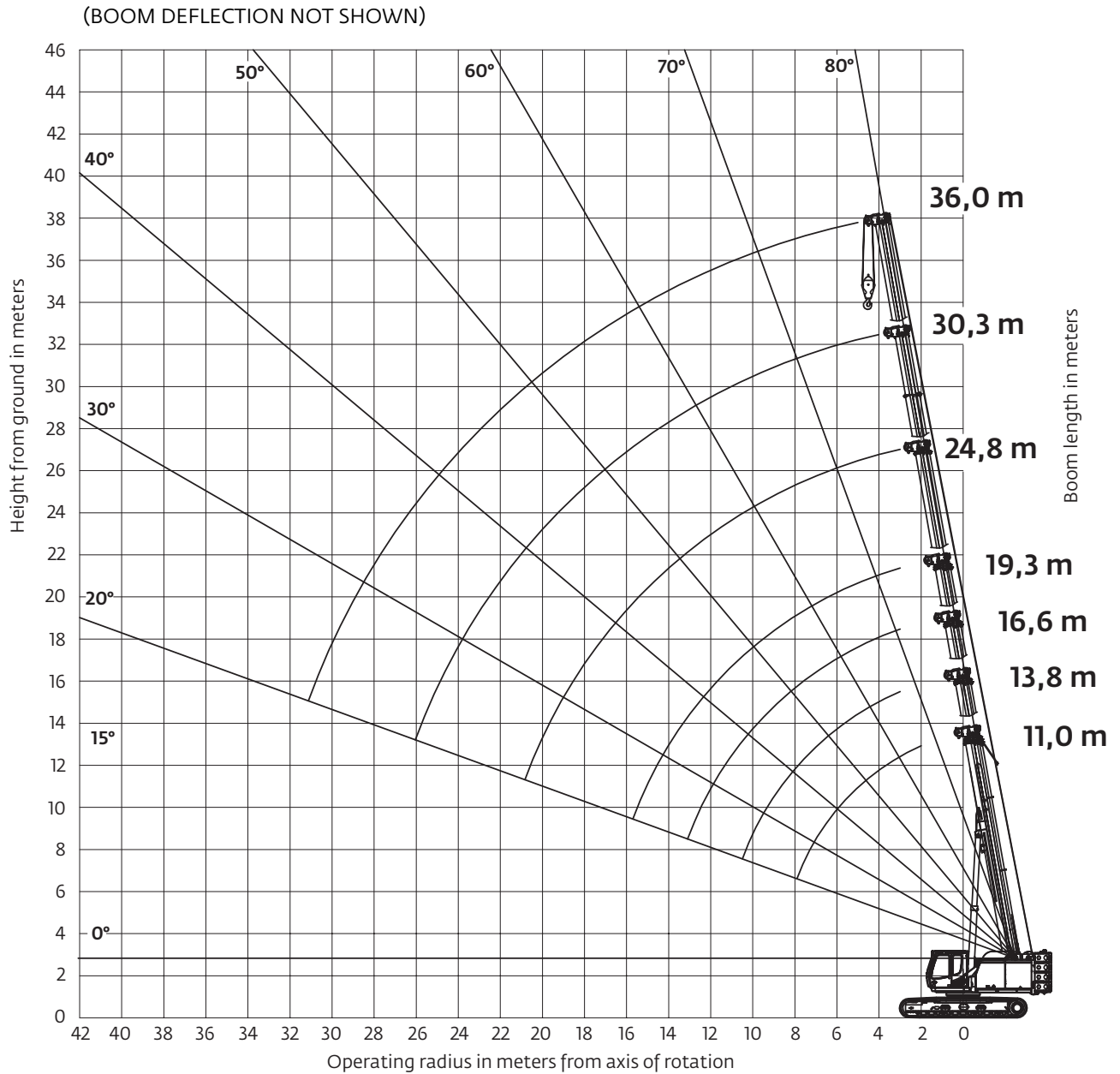
Capacity	Weight	Cable reeving and maximum safe working load											
		12	11	10	9	8	7	6	5	4	3	2	1
5 t (5.5 USt)	80 kg (176 lb)												5000 kg (11,000 lb)
35 t (38.5 USt) 3-sheave	270 kg (595 lb)						35 000 kg (77,000 lb)	30 000 kg (66,000 lb)	25 000 kg (55,000 lb)	20 000 kg (44,000 lbs)	15 000 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)	60 000 kg (132,000 lb)	55 000 kg (121,000 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 lbs)	15 000 kg (33,000 lb)	10 000 kg (22,000 lb)	5000 kg (11,000 lb)



# Working range

Main boom - metric 75%

## Main boom



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# Load chart

Main boom - metric 75%



36 m



17,4 t



8 t



100%



360°



Kilograms

Radius [m]	Main boom length [m]						
	11,0	13,8	16,6	19,3	24,8	30,3	36,0
2	70 000						
2,5	69 500						
3	67 200	61 000	44 000	37 800	22 500		
4	56 000	53 600	37 700	32 600	22 500	21 000	
5	44 900	44 500	32 900	28 500	22 500	20 100	14 500
6	37 300	36 900	29 100	25 100	22 100	18 400	14 500
7	31 400	30 800	26 100	22 500	19 800	16 900	14 200
8	25 500	25 000	23 600	20 300	17 900	15 400	13 400
9		20 800	20 500	18 400	16 400	14 100	12 600
10		17 600	17 400	16 800	15 000	12 900	11 800
12			13 100	13 000	12 800	11 000	10 200
14				10 200	10 700	9 500	8 700
16				8 100	8 600	8 300	7 500
18					7 100	7 300	6 500
20					5 900	6 200	5 800
22						5 200	5 200
24						4 400	4 700
26						3 700	4 000
28							3 400
30							2 800
32							2 400
When 8 m extension is in stowed position, the rated loads must be reduced as follows:							
Reduction of load (kg)	770	610	510	430	340	280	240

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# Load chart

Auxiliary boom nose - metric 75%



36 m



With auxiliary boom nose



17,4 t



8 t



100%



360°



Kilograms

Radius [m]	Main boom length [m]						
	11,0	13,8	16,6	19,3	24,8	30,3	36,0
2	5000	5000	5000	5000			
2,5	5000	5000	5000	5000			
3	5000	5000	5000	5000	5000		
4	5000	5000	5000	5000	5000	5000	
5	5000	5000	5000	5000	5000	5000	5000
6	5000	5000	5000	5000	5000	5000	5000
7	5000	5000	5000	5000	5000	5000	5000
8	5000	5000	5000	5000	5000	5000	5000
9		5000	5000	5000	5000	5000	5000
10		5000	5000	5000	5000	5000	5000
12			5000	5000	5000	5000	5000
14				5000	5000	5000	5000
16				5000	5000	5000	5000
18					5000	5000	5000
20					5000	5000	5000
22						5000	4800
24						4300	4400
26						3600	3900
28							3300
30							2700
32							2300
When 8 m extension is in stowed position, the rated loads must be reduced as follows:							
Reduction of load (m)	770	610	510	430	340	280	240

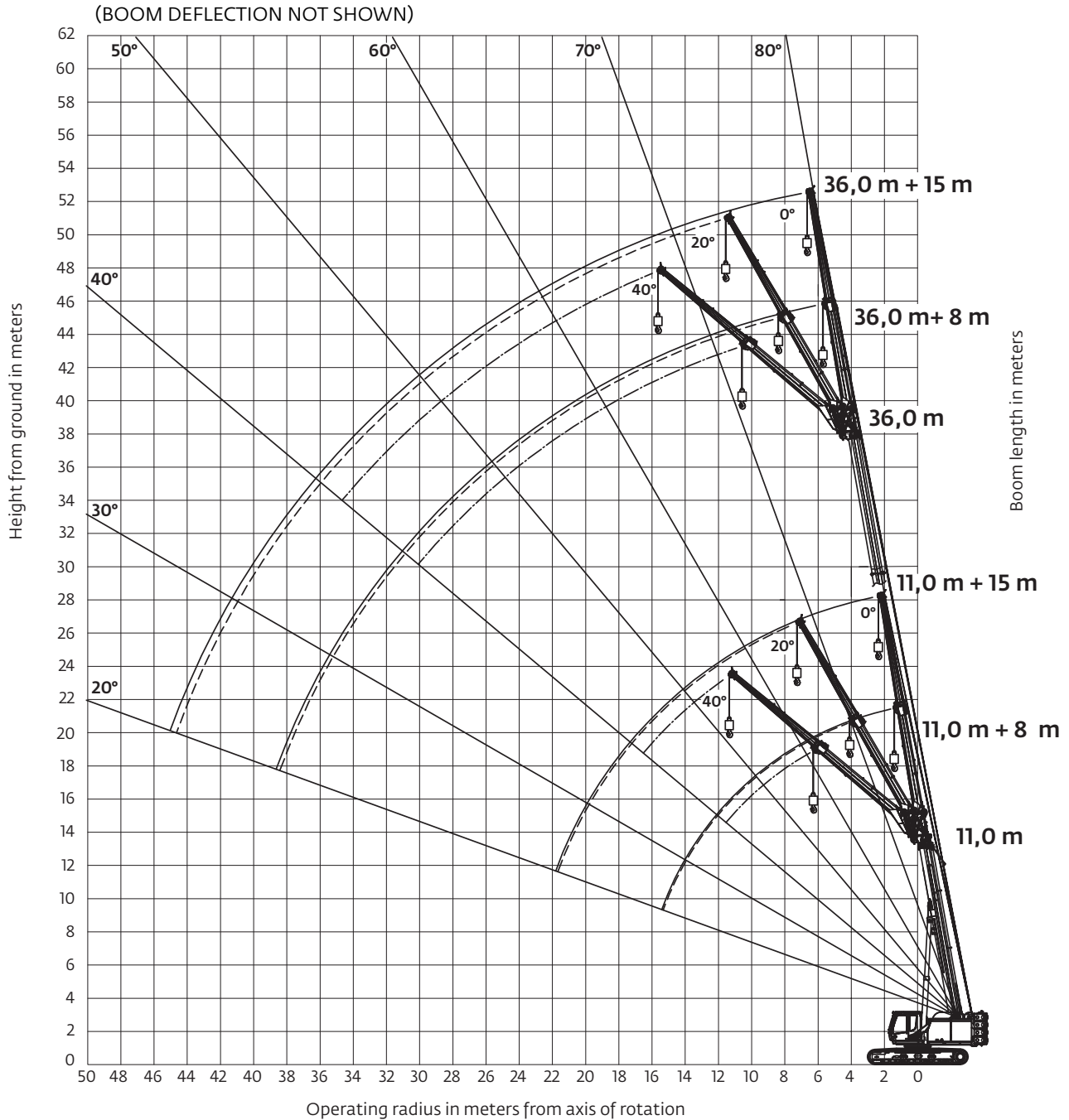
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# Working range

Extensions - metric 75%

## Main boom with extensions



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# Load chart

Extensions - metric 75%



36 m



8 m



17,4 t



8 t



100%



360°



Kilograms

Radius [m]	Main boom length [m]														
	11,0			19,3			24,8			30,3			36,0		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
2	10 000														
3	10 000														
4	9700	7700		10 000											
5	9200	6900		9600			10 000								
6	9000	6700	4100	9000	5900		9400			8100					
7	7700	6200	3900	8500	5600		8500	5800		8000			6400		
8	7200	5900	3700	7900	5300		8200	5500		7900	5600		6400		
9	6700	5200	3600	7300	5000	3800	7800	5200		7800	5400		6400		
10	6500	5000	3500	6800	4800	3700	7400	5000	3800	7600	5200	3800	6300	5100	
11	5500	4700	3300	6500	4400	3500	6700	4600	3600	7200	4800	3600	6100	4800	3700
12	5200	4600	3200	5500	4200	3400	6400	4400	3500	6900	4700	3600	6000	4600	3600
13	4900	4500	3100	5200	4000	3300	6000	4200	3400	6700	4500	3500	5800	4500	3500
14	4700	4400		4900	3800	3200	5700	4100	3400	6400	4300	3400	5600	4400	3400
15		4300		4600	3700	3200	5300	4000	3300	6100	4200	3400	5400	4200	3300
16		3200		4400	3500	3100	5100	3900	3200	5900	4100	3300	5200	4200	3300
17				4200	3400	3100	4900	3800	3200	5600	4000	3300	5000	4100	3300
18				4000	3300	3100	4600	3700	3100	5300	3900	3300	4800	4000	3200
19				3900	3200	3000	4400	3600	3100	5100	3800	3200	4600	3900	3200
20				3700	3100		4200	3500	3100	4900	3700	3100	4300	3800	3200
21				3600	3100		4100	3400	3000	4700	3600	3100	4200	3700	3200
22				3400	3100		3900	3300	3000	4400	3500	3100	3900	3600	3100
23				3200	3000		3800	3200	2900	4300	3500	3000	3700	3500	3100
24							3700	3100		4100	3400	3000	3500	3300	3100
25							3600	3100		3700	3300	3000	3300	3200	3100
26							3300	3100		3400	3300	2900	3100	3000	3100
27							3000	3000		3100	3200	2800	3000	2700	3000
28							2700			2700	3100		2900	2600	2900
29							2400			2500	2800		2500	2400	2800
30										2200	2300		2200	2200	2400
32										1900	2000		1900	2000	
34													1500	1600	
36													1200	1300	
38													900		

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# Load chart

Extensions - metric 75%



36 m



15 m



17,4 t



8 t



100%



360°



Kilograms

Radius [m]	Main boom length [m]														
	11,0			19,3			24,8			30,3			36,0		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
2	5000														
3	5000														
4	5000														
5	4800			4600											
6	4500			4500			4300								
7	4300	3600		4300			4300			3900					
8	4100	3400		4200			4200			3900			3400		
9	4000	3200		4000			4100			3800			3400		
10	3600	3000		3800	2900		4000	2900		3700			3400		
11	3400	2900	2300	3700	2800		3900	2800		3700			3300		
12	3300	2800	2200	3500	2700		3700	2800		3600	2800		3300	2700	
13	3100	2800	2100	3400	2600		3600	2700		3500	2700		3300	2700	
14	3000	2800	2000	3200	2500	2000	3500	2600	2100	3400	2600		3200	2600	
15	2900	2600	1900	3000	2400	1900	3300	2500	2000	3400	2500		3100	2600	
16	2800	2500	1900	2900	2300	1900	3200	2400	2000	3300	2400	2000	3100	2500	2000
17	2700	2400	1800	2800	2300	1900	3000	2300	1900	3200	2400	2000	3000	2500	2000
18	2600	2300	1800	2600	2100	1900	2900	2300	1900	3100	2300	1900	3000	2400	1900
19	2600	2200	1800	2500	2100	1900	2800	2200	1900	3000	2200	1900	2900	2400	1900
20	2500	2200	1800	2400	2000	1800	2700	2100	1800	2900	2200	1900	2800	2300	1900
21	2400	2100	1800	2300	1900	1800	2600	2100	1800	2800	2100	1900	2800	2200	1900
22	2300	2100		2200	1900	1700	2500	2000	1800	2700	2100	1900	2700	2200	1900
23				2100	1800	1600	2400	2000	1800	2600	2000	1800	2600	2100	1800
24				2000	1800	1600	2300	1900	1700	2500	2000	1800	2600	2100	1800
25				2000	1800	1600	2200	1900	1700	2500	2000	1800	2500	2000	1800
26				1900	1700	1600	2200	1800	1700	2400	1900	1700	2500	2000	1800
27				1800	1700		2200	1800	1700	2300	1900	1700	2400	1900	1800
28				1800	1700		2100	1800	1700	2200	1900	1700	2400	1900	1800
29				1700	1700		2100	1800	1700	2200	1900	1700	2300	1900	1800
30				1700	1700		2000	1800	1700	2100	1800	1700	2300	1800	1700
32							2000	1700		2000	1800	1700	2200	1800	1700
34							1900	1700		1900	1800	1700	1900	1700	1700
36							1700			1600	1700		1600	1700	1600
38										1300	1500		1300	1600	1600
40										1000	1200		1000	1300	1000
42													800	1000	
44													600	700	

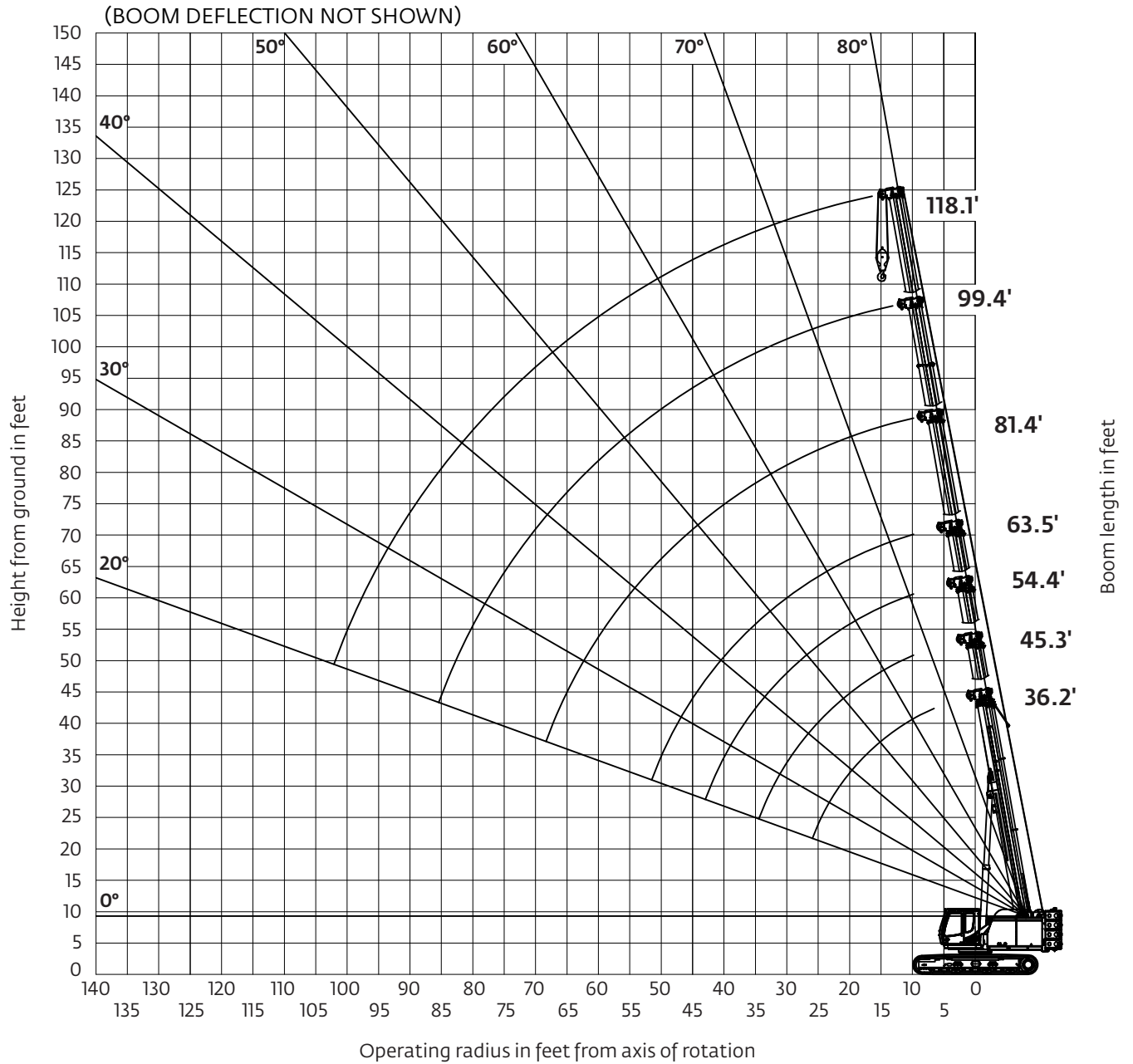
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# Working range

Main boom - imperial 75%

## Main boom



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# Load chart

Main boom - imperial 75%



118 ft 1 in



38,450 lbs



17,637 lb



100%



360°



Pounds

Radius [ft]	Main boom length [ft]						
	36.2	45.3	54.4	63.5	81.4	99.4	118.1
7	150,000						
10	147,100	133,800	96,400	82,900	49,600		
15	109,500	106,800	77,100	66,800	49,600	45,200	
20	81,000	80,100	63,600	54,800	48,300	40,300	31,900
25	61,200	60,000	54,200	46,600	41,100	35,200	30,200
30		44,900	44,200	40,100	35,700	30,700	27,500
35		35,300	34,900	34,300	31,300	27,000	24,700
40			28,200	28,000	27,700	23,900	22,200
45				23,300	24,200	21,400	19,600
50				19,600	20,700	19,300	17,600
55					17,700	17,500	15,700
60					15,300	15,800	14,100
65					13,300	13,900	12,900
70						12,200	11,900
75						10,700	11,000
80						9400	10,100
85						8200	8900
90							7900
95							6900
100							6000
105							5300
When 26.2' extension is in stowed position, the rated loads must be reduced as follows:							
Reduction of load (lb)	1101	887	745	638	506	423	372

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# Load chart

Auxiliary boom nose - imperial 75%



118 ft 1 in



With auxiliary boom nose



38,450 lb



17,637 lb



360°



100%



Radius [ft]	Mainboom length [ft]						
	36.2	45.3	54.4	63.5	81.4	99.4	118.1
7	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				11,000	11,000	11,000	11,000
55					11,000	11,000	11,000
60					11,000	11,000	11,000
65					11,000	11,000	11,000
70						11,000	10,900
75						10,400	10,200
80						9200	9500
85						8000	8700
90							7700
95							6600
100							5700
105							5100
When 26.2' extension is in stowed position, the rated loads must be reduced as follows:							
Reduction of load (lb)	1,101	887	745	638	506	423	372

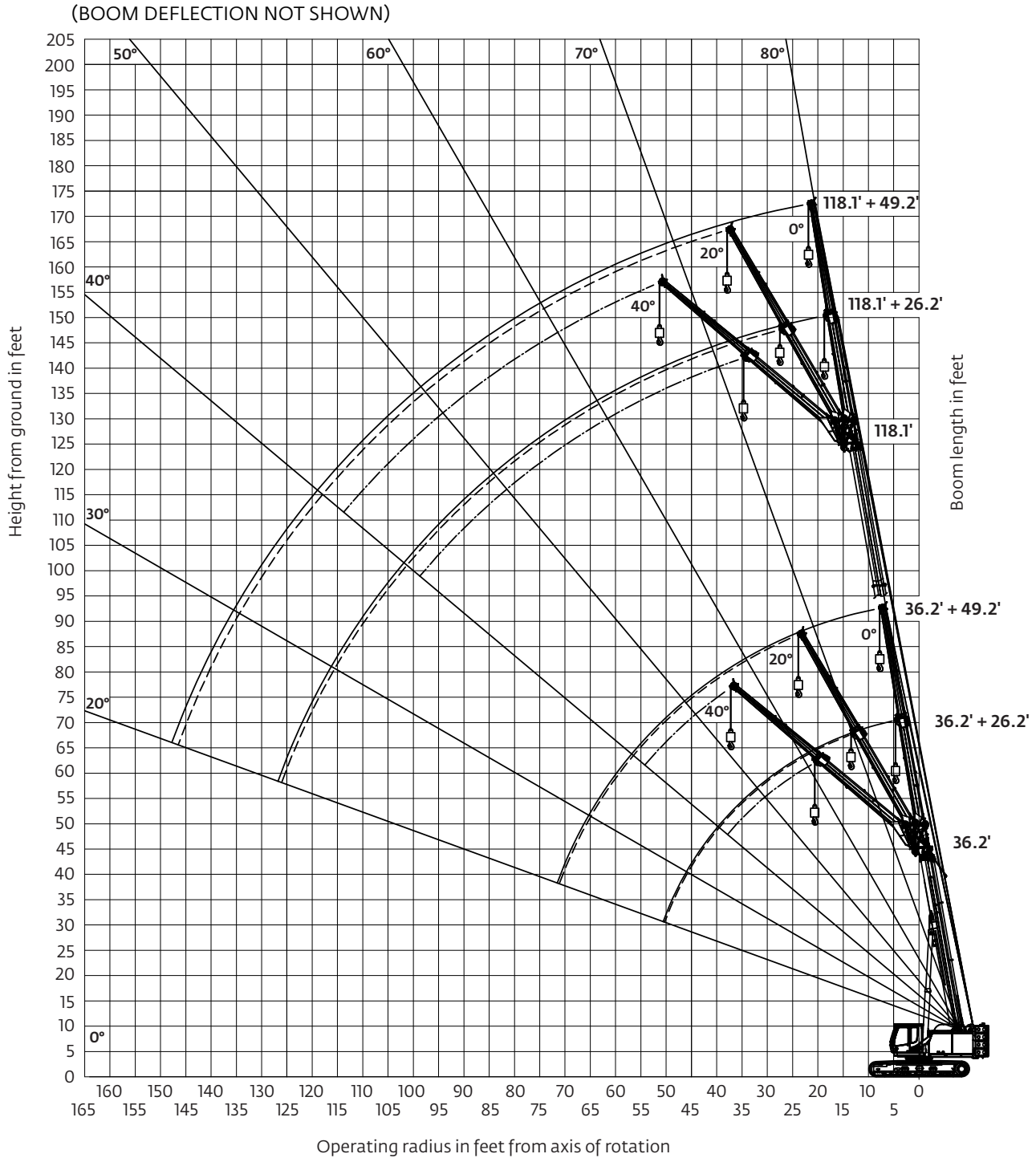
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# Working range

Extensions - imperial 75%

## Main boom with extensions



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# Load chart

Extensions - imperial 75%



118 ft 1 in



26 ft 3 in



38,450 lb



17,637 lb



100%



360°



Pounds

Radius [ft]	Main boom length [ft]														
	36.2			63.5			81.4			99.4			118.1		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
10	22,000														
15	20,800	16,000		21,600											
20	19,600	14,700	9000	19,800	13,000		20,500			17,900					
25	16,300	13,300	8300	17,900	11,900		18,300	12,400		17,500			14,100		
30	14,700	11,400	7900	15,900	11,000	8400	17,100	11,400		17,100	11,900		14,100		
35	12,900	10,600	7400	14,600	10,000	7900	15,300	10,400	8100	16,200	10,900	8100	13,600	10,800	
40	11,300	10,100	7000	12,000	9200	7500	14,000	9600	7700	15,100	10,300	7900	13,200	10,100	7900
45	10,500	9800		11,000	8500	7100	12,800	9100	7500	14,300	9600	7600	12,500	9800	7600
50		8900		10,000	8100	7000	11,600	8800	7200	13,400	9200	7400	11,800	9300	7300
55				9400	7600	6800	10,900	8400	7100	12,500	8900	7300	11,100	9100	7300
60				8800	7200	6800	10000	8100	6800	11,600	8500	7200	10 500	8800	7200
65				8200	6900		9300	7800	6800	10,900	8200	6900	9600	8400	7100
70				7800	6800		9000	7400	6600	10,100	7900	6800	9000	8100	7000
75				7100	6700		8600	7100	6400	9500	7700	6700	8200	7800	6800
80							8300	6800		8700	7400	6600	7600	7200	6800
85							8000	6800		8000	7300	6400	6900	6700	6800
90							7200			7100	7000		6400	5900	6500
95							6200			6400	6200		5500	5300	6200
100										5500	4900		4700	4700	
105										4900			4400	4400	
110										4200			3900	4100	
115													3500	3700	
120													3200		

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# Load chart

Extensions - imperial 75%



118 ft 1 in



49 ft 3 in



38,450 lb



17,637 lb



100%



360°



Pounds

Radius [ft]	Main boom length [ft]														
	36.2			63.5			81.4			99.4			118.1		
	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°	0°	20°	40°
15	10,800														
20	9900			9500			9500								
25	9200	7700		9400			9400			8600					
30	8700	7000		9000	6400		9000			8400			7500		
35	7600	6500		8700	6300		8700	6300		8200			7400		
40	7200	6200	4800	8100	5900		8100	6100		7900	6100		7300	6000	
45	6700	6200	4500	7800	5600		7800	5800		7600	5800		7100	5800	
50	6300	5700	4200	7200	5200	4200	7200	5500	4400	7400	5500		6800	5700	
55	6000	5300	4000	6700	5100	4200	6700	5100	4200	7100	5300	4400	6700	5500	4400
60	5700	5000	4000	6300	4600	4200	6300	5000	4200	6800	5000	4200	6600	5300	4200
65	5600	4900	4000	6000	4500	4000	6000	4700	4000	6400	4900	4200	6200	5100	4200
70	5200	4600		5700	4200	3900	5700	4600	4000	6100	4600	4200	6100	4900	4200
75				5300	4000	3600	5300	4400	4000	5800	4400	4000	5800	4700	4000
80				5000	4000	3500	5000	4200	3800	5500	4400	4000	5700	4500	4000
85				4900	3800	3300	4900	4000	3800	5300	4200	3800	5500	4400	4000
90				4800	3800		4800	4000	3800	5000	4200	3800	5300	4200	4000
95				4600	3800		4600	4000	3800	4900	4200	3800	5100	4200	4000
100				4400			4400	3900		4600	4000	3800	5000	4000	3800
105				4400			4400	3800		4400	4000	3800	4900	4000	3800
110				4200			4200	3800		4200	4000	3800	4300	3800	3800
115										3800	3900		4000	3800	3600
120										3500	3700		3600	3700	3500
125										3300	3500		3300	3500	
130										3100	3400		3100	3400	
135													3000	3200	
140													2800	2900	

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# Load handling

Weight reductions for load handling devices		
8 m - 15 m (26.2 ft - 49.2 ft) Boom extension:		
	Without block or ball	With 80 kg (176 lb) headache ball
*8 m (26.2 ft) extension (erected)	1295 kg (2416 lb)	1240 kg (2736 lb)
*15 m (49.2 ft) extension (erected)	1755 kg (3871 lb)	1953 kg (4305 lb)
Hook blocks and Headache 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*)	205 m (672 ft)
Main and auxiliary	6 mm (5/8") 35x7 Class Rotation Resistant (non-rotating) Min. breaking strength 27 760 kg (61,200 lb)	5000 kg (11,000 lb*)	205 m (672 ft)

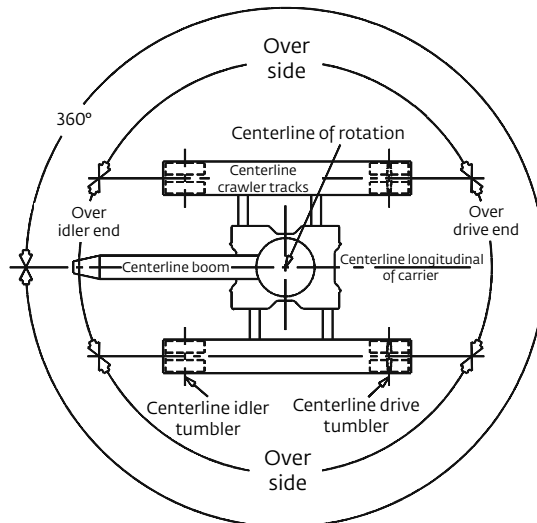
The approximate weight of Verotop 16 mm (5/8") wire rope is 1,25 kg/m (0.84 lb/ft). The approximate weight of 35x7 class 16 mm (5/8") wire rope is 1,5 kg/m (1.0 lb/ft).

\*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	Hoist line pulls	Drum rope capacity	
		Available*	Total
1	7678 kg (16,928 ft)	26,5 m (86.8 ft)	26,5 m (86.8 ft)
2	7204 kg (15,883 ft)	28,2 m (92.5 ft)	54,7 m (179.3 ft)
3	6785 kg (14,959 ft)	29,9 m (98.2 ft)	84,6 m (277.5 ft)
4	6412 kg (14,137 ft)	31,7 m (103.9 ft)	116,3 m (381.4 ft)
5	6078 kg (13,400 ft)	33,4 m (109.7 ft)	149,7 m (491.1 ft)
6	5777 kg (12,736 ft)	35,1 m (115.3 ft)	184,8 m (606.4 ft)
7	5504 kg (12,135 ft)	36,9 m (121.1 ft)	221,7 m (727.5 ft)

\*Max lifting capacity: Verotop and 35x7 class rope = 5000 kg (11,000 lb)

## Working area diagram



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

# Specifications

## Upper carriage

### Boom

11 m – 36 m (36 ft – 118 ft 1 in) Four section, full power, sequenced-synchronized, telescopic boom.

Maximum tip height: 38 m (125 ft)

### Boom extension

8 m (26 ft 3 in) offsettable, solid, one piece swingaway extension. Extension can be offset at 0°, 20°, and 40°

Maximum tip height: 46 m (151 ft)

### \*Optional Boom Extension

7 m (23 ft) offsettable fly jib extension that must be used in conjunction with standard 8 m (26 ft 3 in) boom extension. This provides a total of 15 m (49 ft 3 in) of additional reach. The optional fly jib extension can not be stowed on boom.

Maximum tip height: 52,7 m (173 ft)

Boom extension can be offset 0°, 20°, and 40°

### Boom nose

Seven 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: -3° to 81°

### Rated Capacity Limiter and anti-two block system

Graphical display of load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of crane configuration, boom angle, length, radius, tip height, maximum permissible load, momentary load and warning of impending two-block condition. Includes advanced diagnostics system that increases the performance of the machine, simplifies and accelerates troubleshooting, and lowers operating costs. Equipped with event recorder.

### Counterweight

Upper weight: 17 440 kg (38,450 lb) total (5 - pieces)

Carbody weight: 8000 kg (17,637 lb) total (2 - pieces)

### Cab

Large capacity operator's compartment that includes an air suspended operator's seat with lumbar support, heated seat, headrest, three 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 tilttable 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 20° tilt capability for improved overhead vision and ergonomic posture. Also equipped with a seven inch monitor in cab for rear view, right side, and hoist cameras.

### Swing

Two speed, compact planetary gears with slant axis hydraulic motor and integrated brake valves. Sealed, externally geared slewing ring that allows for 360° of continuous rotation.

Electronically applied service brake operated via foot pedal. Spring applied, hydraulically released parking brake. One position, hydraulically pinned house lock.

Swing speed: 0-2 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 three section gear pump.

Maximum output: 375 LPM (99 GPM)

Maximum operating pressure: 330 bar (4786 psi)

765 L (202 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 (main and auxiliary hoist)

Single speed hoists driven via a slant axis hydraulic motor with compact planetary gear. Spring loaded disc brake. Grooved drum with drum rotation indicator for both hoists that is located in the joystick controls.

Maximum hoist pull (first layer): 7678 kg (16,928 lb)

Maximum permissible single line pull: 4990 kg (11,000 lb)

Maximum single line speed: 115 m/min (380 ft/min)

Rope construction: 35 X 7 Rotation Resistant

Rope diameter: 16 mm (5/8 in)

Rope length: 205 m (673 ft)

### Engine (Tier 4)

Cummins QSB 6.7 L diesel, six cylinders, turbocharged with Cummins Compact Catalytic exhaust and Selective Catalytic Reduction.

Meets U.S.E.P.A Tier 4 final requirements.

168 kW (228 bhp) at 2000 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 6.7 L diesel, six cylinders, turbocharged rated at 164 kW (218 bhp) at 2000 rpm.

NOTE: Required for sale outside of North America.

### Fuel tank capacity

Diesel Fuel: 540 L (143 gal)

DEF (Diesel Exhaust Fluid): 38 L (10 gal)

### Electrical system

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





## Lights

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

### Lower Carriage



## Frame

Durable all steel welded construction with extendable cross members.



## Side frames

Steel frames that can be hydraulically extended or retracted via controls in the cab. 900 mm (36 in) triple bar maintenance free track shoes.

Retracted gauge (transportation only): 2,3 m (7 ft 6 in)

Intermediate gauge: 3,2 m (10 ft 6 in)

Extended gauge: 4,1 m (13 ft 6 in)

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



## Travel

2 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 thru a two stage hydraulic traction motor. Spring-loaded, hydraulically venting disk brake activated via foot pedal in cab.

Travel Speed: Max Low Range – 0,93 kmh (0.58 mph)

Max High Range – 2,7 kmh (1.68 mph)

Gradeability (theoretical): 64%

## Operating weight

71 760 kg (158,200 lb) base machine configuration that includes 36 m (118 ft 1 in) boom, 8 m (26 ft 3 in) extension, 35 t (38.5 USt) hook block, 900 mm (36 in) triple bar shoes, main and auxiliary hoist, 17 440 kg (38,450 lb) counterweight, and 8000 kg (17,637 lb) carbody.

Ground bearing pressure (no load): .77 kg/cm<sup>2</sup> (10.95 psi)

## Miscellaneous standard equipment

- Central, easily accessible lubricating strip for slewing ring.
- Grated platforms in front and on the side of the cab, as well as catwalks on both sides of the upper carriage. Foldable handrails included for upper carriage.
- Storage box attached to the rear carbody weight.
- Service friendly engine and hydraulic compartments with decoupled engine suspension, sound proofing, and lighting.
- 35 t (38.5 USt) 3 - 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), 200 bar (2900 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), 176 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, 1829 mm x 914 mm (72 in x 36 in) steel basket, gravity hung with cylinder brake lock (does not side stow). Includes quick-attach boom attachment. Basket capacities: 544,3 kg (1200 lb) main boom and 226,7 kg (500 lb) on jib.
- Radio Remote Control Package
- Cold Weather Packages up to -40° C / 40° F
- Swing Barrier Protection
- Maintenance free flat track shoes

# Symbols Glossary



Boom



Counterweight



Grade



Radius



Boom elevation



Electrical system



Hoist



Rotation



Boom extension



Engine



Hookblock



Side Frames



Boom length



Extension



Hydraulic system



Speed



Boom nose



Frame



Lights



Swing



Cab



Fuel tank capacity



Oil



# Notes



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