

## GCD15 Product Guide

ASME B30.5  
Imperial 85%, Metric 85%



### Features

- 13,6 t (15 USt) capacity
- 12,5 m (41 ft) three-section full-power boom
- 8,1 t (9 USt) deck carrying ability
- Load sensing hydraulic piston pump
- Mechanical lever proportional controls
- Dual fuel and diesel engine options available

# GROVE GCD15

The new GCD15 is a 13,6 t (15 USt) capacity carrydeck crane, offering a three-section 12,5 m (41 ft) boom, two-wheel drive/four-wheel steer capability. It also has a three-position pivoting boom head for low head room clearance and oblique-style outriggers with nylatron outrigger wear pads.

## Features

### > Operator focused design

The GCD15 is designed with the operator in mind. A storage tray and main storage box are located in the front center of the carrier and are suitable for storing the downhaul ball or hook blocks available on this model. Stow rigging equipment in a storage box located on the right hand side of the machine. This compartment has a latched door to prevent accidental opening when machine is in operation. The GCD15 also includes a full LED lighting package (improved visibility and longer lasting).



### > Operator cab

Simple operator cab features direct-to-valve hydraulic controls, ergonomically laid out fixed steering wheel and easy-to-set up graphical Rated Capacity Limiter (RCL) system. The cab is up to 4.8" wider providing additional operator comfort. The optional enclosed cab includes a split cab door with sliding glass window for enhanced operator comfort.



### > Pivoting boom nose

Ideal for operating in confined spaces, the three-position mechanically offset (0°, 40° and 80°) pivoting boom nose lowers boom nose head height by 0,36 m (14 in).



### > Options

- Convenience package includes pintle hitches and light grilles
- Lighting package includes amber strobe light and boom-mounted work lights
- Below-deck winch
- Air-conditioning

## GCD15 benefits

- EPA Tier 4 Final emissions compliant without the use of a SCR or UREA injected DEF system. No Diesel Exhaust Fluid (DEF) required.
- The GCD15 includes many easy to operate features such as mechanical lever proportional controls, independently controlled single-stage oblique outriggers and a simple to operate RCL system.
- An optional 5,3 m - 15,2 m (17.3 ft - 50 ft) four-section, full-power main boom and a 4,6 m (15 ft) fixed swingaway extension are available to offer higher reach.
- Customer focused design with more operator comfort in the cab and storage for the downhaul and headache ball on the machine.



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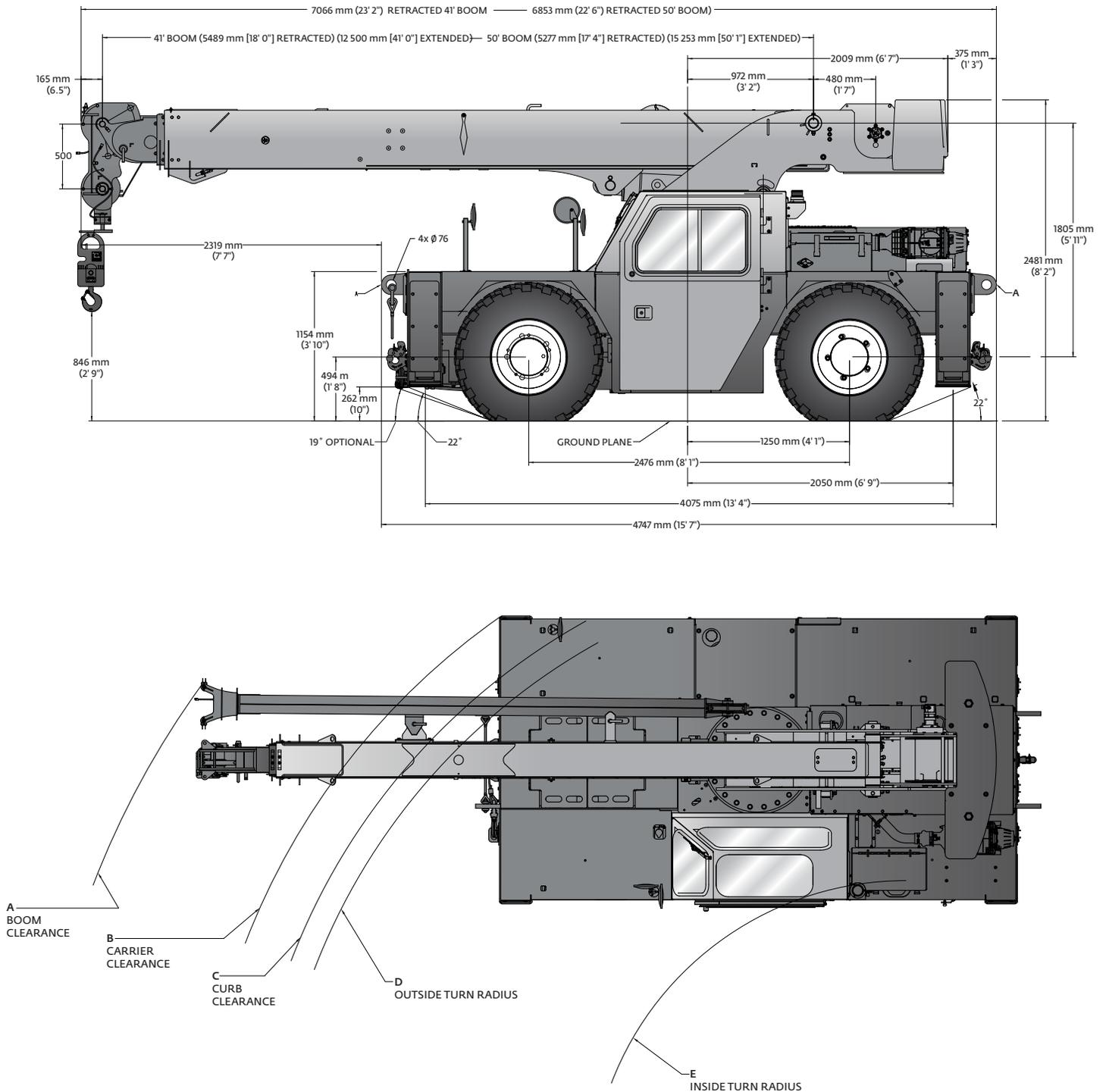
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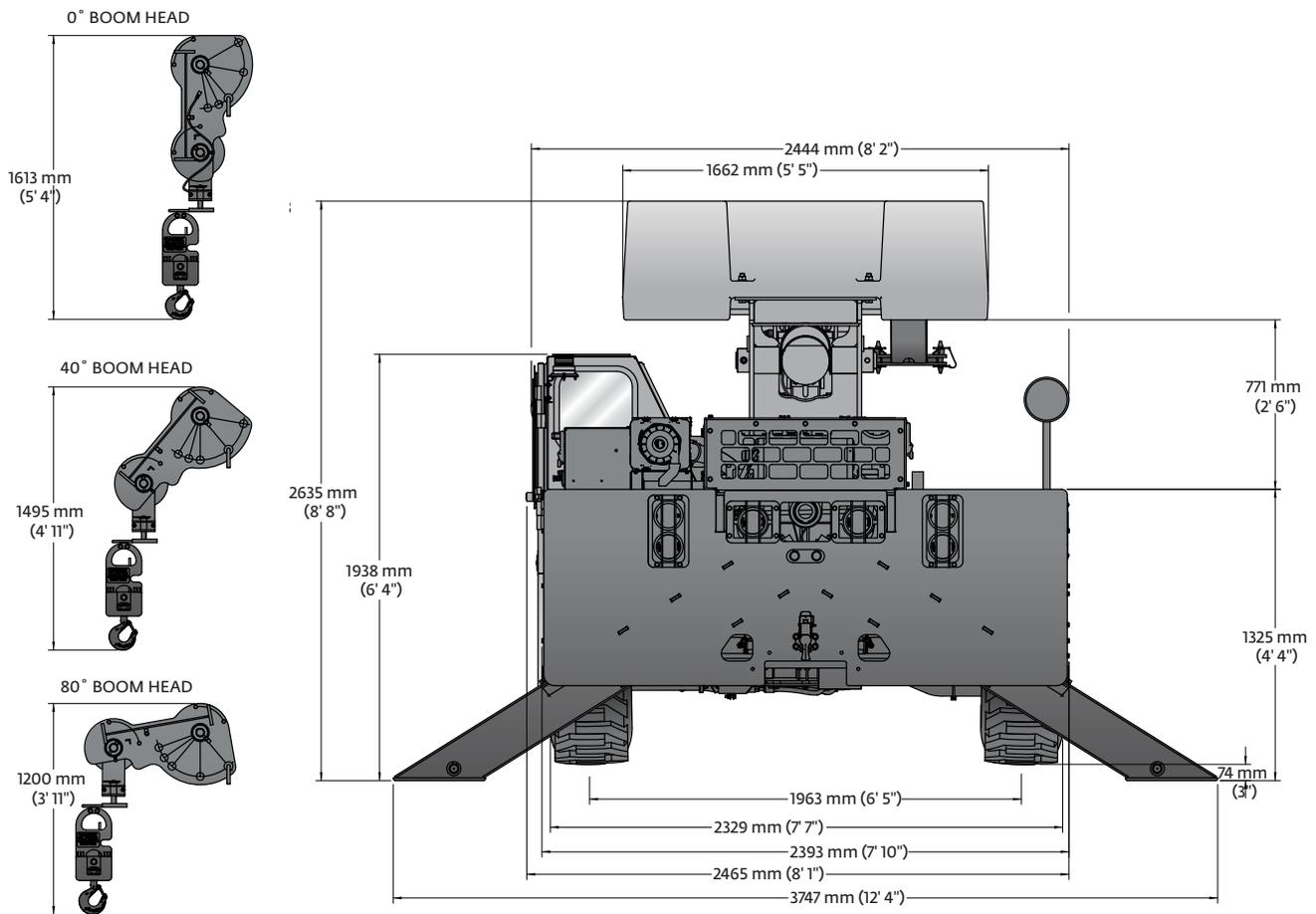
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# Dimensions and weights

Dimensions										
Tire size	A	B	C	D	E	A	B	C	D	E
385/65 D22.5	7307 mm (287.7 in)	5939 mm (233.8 in)	5526 mm (217.6 in)	5318 mm (209.4 in)	2647 mm (104.2 in)	5210 mm (205.1 in)	3606 mm (142.0 in)	3175 mm (125 in)	2856 mm (112.4 in)	2068 mm (81.4 in)
	Two-wheel steer (radius)					Four-wheel steer (radius)				



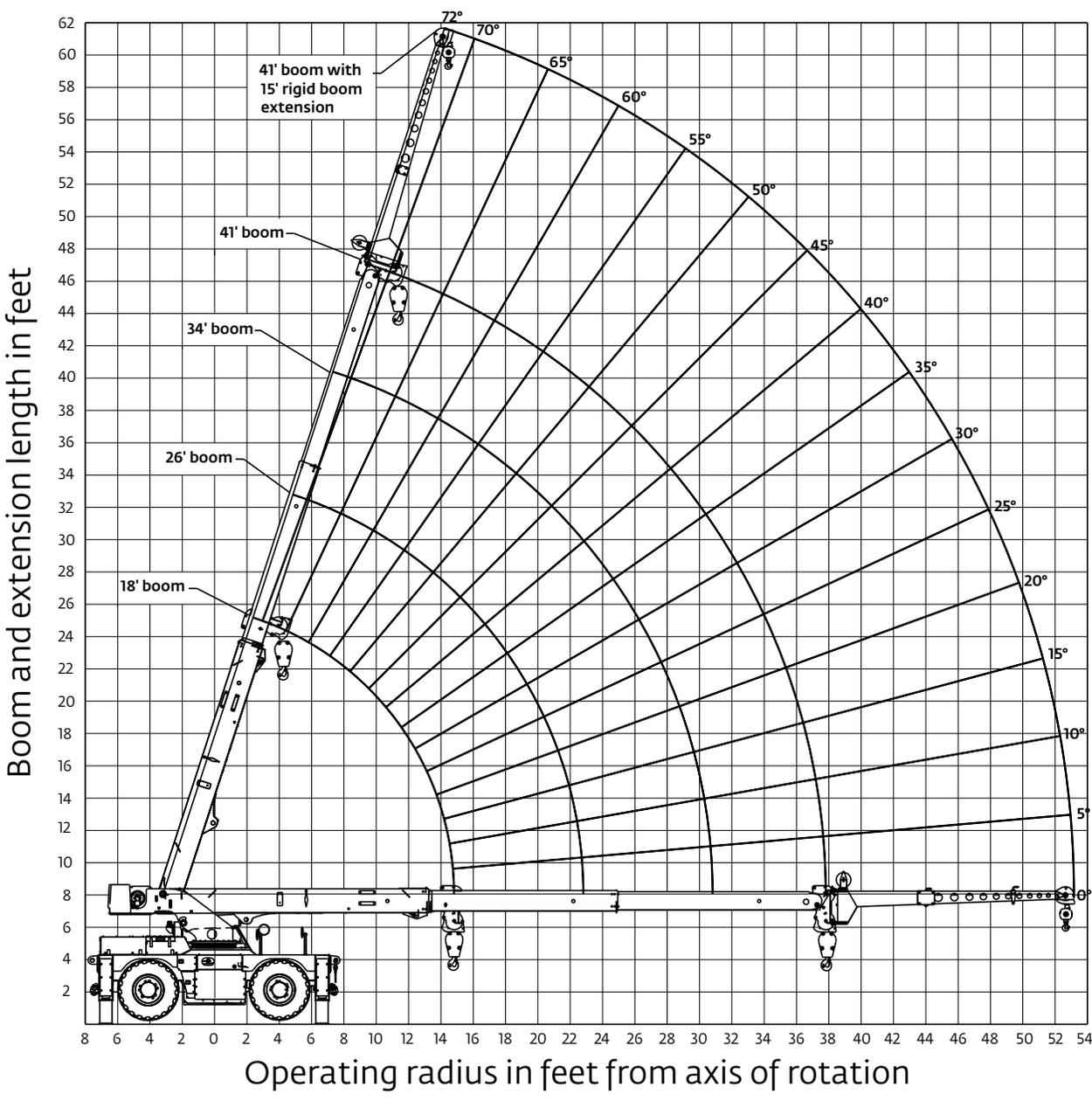
# Dimensions and weights



Weights						
	GVW		Front		Rear	
	kg	lb	kg	lb	kg	lb
<b>Basic machine:</b> including 12,5 m (41.0 ft) main boom, hoist with 98 m (320 ft) of wire rope, 18 t (20 USt) hook block, counterweight, Tier 4 engine, and driver.	11 489	25,329	5328	11,747	6161	13,582
<b>Add:</b> 4,6 m (15 ft) fixed swingaway extension and extension carrier brackets and downhaul weight.	245	540	375	828	-130	-287
<b>Crane weight</b>	11 734	25,869	5704	12,574	6030	13,295
<b>Basic machine:</b> including 12,5 m (41.0 ft) main boom, main hoist with 98 m (320 ft) of wire rope, 18 t (20 USt) hook block, full counterweight, Tier 4 engine, and driver.	11 489	25,329	5328	11,747	6161	13,582
<b>Add:</b> Enclosed cab with heater and defroster.	89	196	41	90	48	106
<b>Crane weight</b>	11 578	25,525	5369	11,838	6209	13,687

# Working range

41 ft boom - Imperial 85%



*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

41 ft boom - Imperial 85%



18 ft - 41 ft



100%



360°



18 ft - 41 ft



100%



Over front



Pounds



Pounds

Radius in Feet	Main Boom Length in Feet			
	18	26	34	41
6	30,000 (66)			
8	27,150 (58.5)	19,800 (69.5)		
10	24,000 (50)	19,800 (64.5)		
12	21,500 (39.5)	18,950 (59.5)	17,350 (67.5)	
14	16,000 (24.5)	16,300 (53.5)	15,150 (64)	13,550 (69)
14.5	13,800 (18.5)	15,300 (52)	14,750 (63)	13,200 (68)
16		12,850 (47.5)	12,750 (60)	12,200 (66)
18		10,500 (40.5)	10,450 (56)	10,800 (62.5)
20		8870 (32)	8800 (51.5)	9070 (59.5)
22		7610 (20)	7550 (46.5)	7760 (56)
22.5		7350 (14.5)	7290 (45.5)	7480 (55)
24			6580 (41.5)	6740 (52.5)
26			5790 (35.5)	5930 (48.5)
28			5140 (28)	5260 (44.5)
30			4610 (17)	4690 (40)
30.5			4490 (12.5)	4570 (39)
32				4220 (35)
34				3810 (29.5)
36				3450 (21.5)
37.5				3220 (11.5)

NOTE: ( ) Boom angles are in degrees.

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Radius in Feet	Main Boom Length in Feet			
	18	26	34	41
6	30,000 (66)			
8	27,150 (58.5)	19,800 (69.5)		
10	24,000 (50)	19,800 (64.5)		
12	21,500 (39.5)	18,950 (59.5)	17,350 (67.5)	
14	18,500 (24.5)	16,700 (53.5)	15,150 (64)	13,550 (69)
14.5	13,800 (18.5)	16,250 (52)	14,750 (63)	13,200 (68)
16		14,900 (47.5)	13,600 (60)	12,200 (66)
18		13,200 (40.5)	12,300 (56)	11,000 (62.5)
20		11,100 (32)	10,900 (51.5)	10,100 (59.5)
22		9560 (20)	9390 (46.5)	9320 (56)
22.5		8960 (14.5)	9070 (45.5)	9140 (55)
24			8210 (41.5)	8360 (52.5)
26			7280 (35.5)	7350 (48.5)
28			6510 (28)	6530 (44.5)
30			5880 (17)	5860 (40)
30.5			5740 (12.5)	5710 (39)
32				5290 (35)
34				4790 (29.5)
36				4370 (21.5)
37.5				4090 (11.5)

NOTE: ( ) Boom angles are in degrees.

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# Load chart

41 ft boom - Imperial 85%



Pounds

**NOTES:**

1. 15 ft boom extension may be used for single line lifting service only.
2. **WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

Radius in Feet	15 ft LENGTH		
	0° OFFSET	15° OFFSET	30° OFFSET
18	7370 (70)		
20	7210 (68)		
22	6650 (65.5)	4790 (69.5)	
24	6020 (63.5)	4570 (67)	3650 (70)
26	5590 (61)	4290 (64.5)	3520 (67.5)
28	5290 (58.5)	4120 (62)	3410 (65)
30	4810 (56)	3900 (59.5)	3290 (62.5)
32	4350 (53.5)	3770 (57)	3200 (60)
34	3950 (51)	3600 (54.5)	3120 (57)
36	3600 (48)	3450 (51.5)	3030 (54)
38	3300 (45)	3330 (48.5)	2970 (51)
40	3040 (42)	3080 (45.5)	2910 (47.5)
42	2800 (38.5)	2840 (42)	2850 (44)
44	2590 (35)	2620 (38.5)	2680 (40)
46	2400 (31)	2430 (34.5)	2480 (35.5)
48	2230 (26)	2250 (29.5)	
50	2070 (20.5)	2090 (23)	
52	1930 (11.5)		
52.5	1890 (6.5)		

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# Load chart

41 ft boom - Imperial 85%



Radius in Feet	Defined Arc 8° Over Front	Stationary 360°
6	19,300	14,450
8	15,600	11,100
10	12,950	8940
12	10,100	7290
14	7780	5720
14.5	7340	5400
16	6440	4700
18	5340	3890
20	4520	3270
22	3870	2780
22.5	3730	2670
24	3390	2460
26	2960	2140
28	2600	1870
30	2300	1640
30.5	2230	1590
32	2100	1450
34	1870	1280
36	1670	1130
37.5	1540	1030

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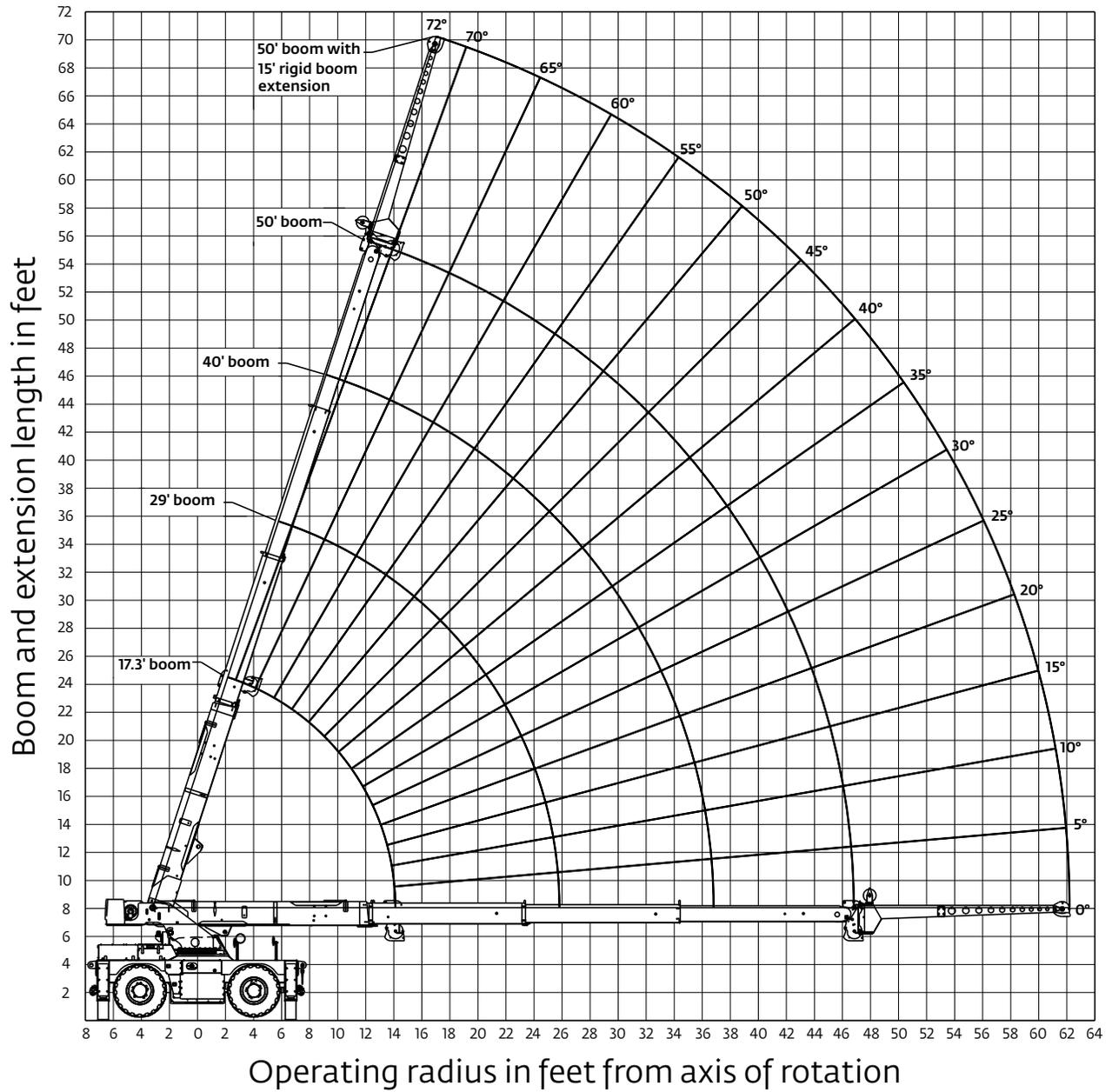
1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
2. Capacities are applicable to machines equipped with outrigger R4 385/65 D22.5 at 125 psi cold inflation pressure.
3. Capacities are applicable only with machine on a smooth, level and firm surface.
4. Defined Arc - Over front includes 8° on either side of longitudinal centerline of machine.
5. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
6. For pick and carry operation, the boom, using the shortest practical boom length, must be centered over front of machine. Maximum speed is 2.5 mph.
7. On rubber lifting with boom extension not permitted.

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# Working range

50 ft boom - Imperial 85%



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# Load chart

50 ft boom - Imperial 85%



17 ft - 50 ft



100%



360°



17 ft - 50 ft



100%



Over front



Pounds



Pounds

Radius in Feet	Main Boom Length in Feet			
	17.3	29	40	50
6	30,000 (64.5)			
8	25,750 (56.5)			
10	21,250 (47)	16,950 (67)		
12	18,050 (35.5)	16,950 (62.5)		
14	13,100 (15)	15,700 (58)	14,950 (68.5)	
16		12,300 (53)	12,550 (65)	
18		10,050 (48)	10,200 (62)	10,150 (68.5)
20		8470 (42.5)	8550 (58.5)	8500 (65.5)
22		7240 (35)	7300 (55)	7260 (63)
24		6290 (26)	6330 (51.5)	6300 (60.5)
25.5		5700 (14)	5730 (48.5)	5710 (58.5)
26			5550 (47.5)	5530 (57.5)
28			4910 (43)	4900 (55)
30			4380 (38.5)	4370 (52)
32			3920 (33)	3930 (48.5)
34			3530 (26)	3550 (45.5)
36			3190 (16.5)	3220 (42)
36.5			3110 (12)	3140 (41)
38				2930 (38)
40				2670 (34)
42				2440 (29)
44				2230 (23)
46				2040 (14)
46.5				2000 (10)

Radius in Feet	Main Boom Length in Feet			
	17.3	29	40	50
6	30,000 (64.5)			
8	25,750 (56.5)			
10	21,250 (47)	16,950 (67)		
12	18,050 (35.5)	16,950 (62.5)		
14	13,100 (15)	16,400 (58)	14,950 (68.5)	
16		14,950 (53)	13,700 (65)	
18		13,550 (48)	12,500 (62)	12,150 (68.5)
20		11,200 (42.5)	10,850 (58.5)	10,900 (65.5)
22		9480 (35)	9220 (55)	9250 (63)
24		8140 (26)	7970 (51.5)	7980 (60.5)
25.5		7150 (14)	7210 (48.5)	7210 (58.5)
26			6980 (47.5)	6980 (57.5)
28			6180 (43)	6170 (55)
30			5520 (38.5)	5500 (52)
32			4970 (33)	4940 (48.5)
34			4490 (26)	4460 (45.5)
36			4070 (16.5)	4050 (42)
36.5			3980 (12)	3960 (41)
38				3690 (38)
40				3380 (34)
42				3090 (29)
44				2840 (23)
46				2610 (14)
46.5				2560 (10)

NOTE: ( ) Boom angles are in degrees. 80101703

NOTE: ( ) Boom angles are in degrees. 80101702

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# Load chart

## 50 ft boom - Imperial 85%



Pounds

Radius in Feet	15 ft LENGTH		
	0° OFFSET	15° OFFSET	30° OFFSET
20	7020 (71.5)		
22	6200 (69.5)		
24	5670 (67.5)	4980 (71.5)	
26	5250 (65.5)	4680 (69)	3720 (71.5)
28	5000 (63.5)	4520 (67)	3600 (69.5)
30	4660 (61.5)	4210 (65)	3500 (67.5)
32	4180 (59.5)	3940 (62.5)	3410 (65.5)
34	3770 (57.5)	3800 (60.5)	3320 (63)
36	3420 (55)	3490 (58.5)	3230 (61)
38	3110 (53)	3150 (56)	3160 (58.5)
40	2830 (50.5)	2860 (54)	2970 (56)
42	2590 (48)	2600 (51.5)	2690 (53.5)
44	2370 (45.5)	2360 (49)	2450 (51)
46	2180 (43)	2150 (46)	2230 (48.5)
48	2000 (40)	1960 (43.5)	2030 (45.5)
50	1840 (37)	1790 (40.5)	1850 (42)
52	1690 (34)	1630 (37)	1680 (38.5)
54	1560 (30.5)	1480 (33.5)	1530 (34.5)
56	1430 (26.5)	1350 (29.5)	1390 (30)
58	1320 (21.5)	1230 (24)	
60	1210 (15)	1110 (17)	
61.5	1140 (6)		

NOTES:

1. 15 ft boom extension may be used for single line lifting service only.
2. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

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# Load chart

50 ft boom - Imperial 85%



17 ft - 50 ft



Stationary



Defined arc  
over front



Stationary



360°



Pick & Carry



Over front



Pounds

Radius in Feet	Defined Arc 8° Over Front	Stationary 360°
6	16,000	12,000
8	13,600	9900
10	11,700	8490
12	9820	7220
14	7410	5540
16	6520	4650
18	5340	3800
20	4460	3160
22	3770	2650
24	3220	2240
25.5	2870	1980
26	2850	1960
28	2470	1720
30	2140	1470
32	1870	1260
34	1620	1080
36	1410	910
36.5	1360	880
38	1320	780
40	1150	650
42	1000	540
44	870	430
46	750	340
46.5	720	320

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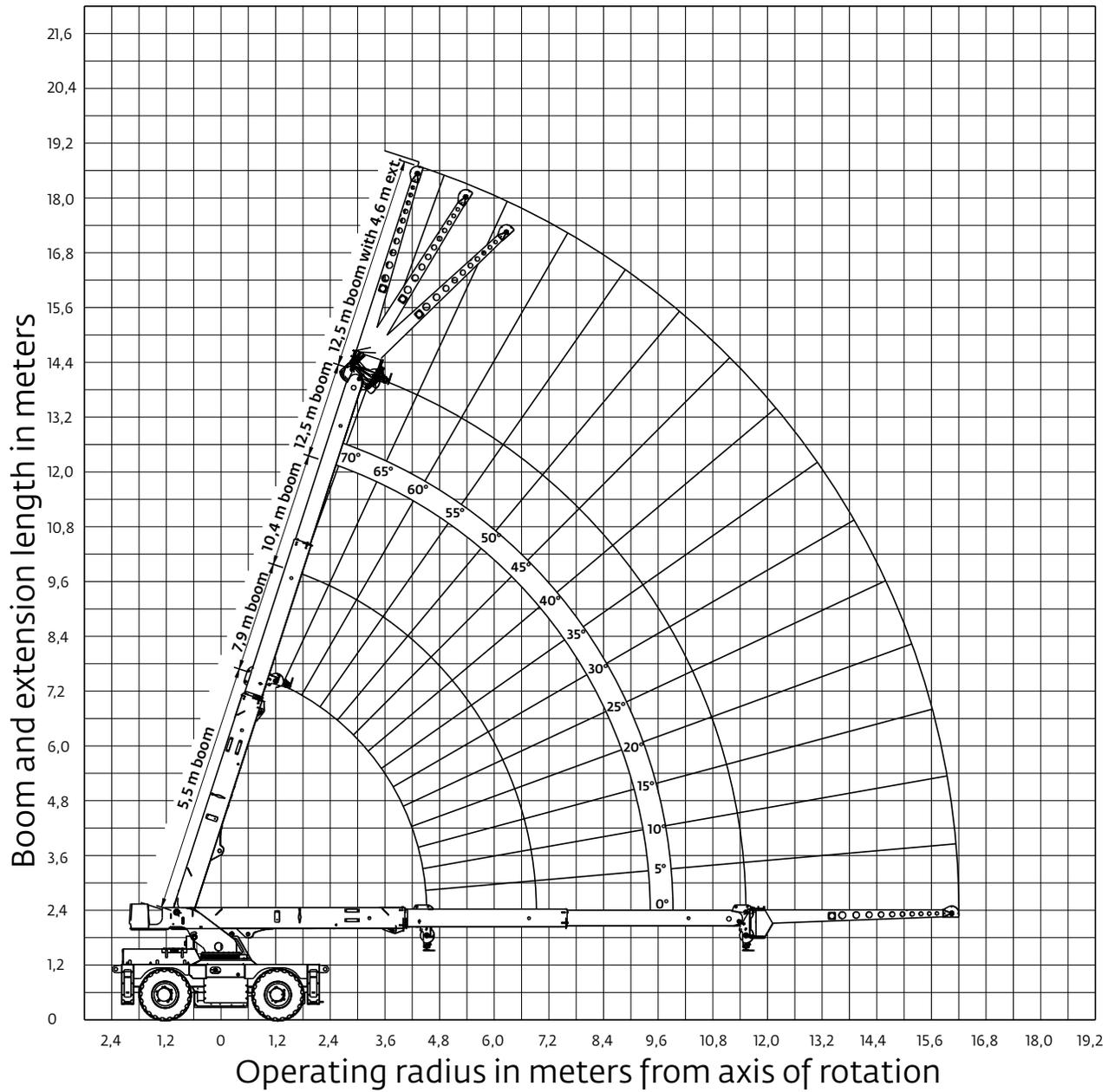
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2. Capacities are applicable to machines equipped with outrigger R4 385/65 D22.5 at 125 psi cold inflation pressure.
3. Capacities are applicable only with machine on a smooth, level and firm surface.
4. Defined Arc - Over front includes 8° on either side of longitudinal centerline of machine.
5. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
6. For pick and carry operation, the boom, using the shortest practical boom length, must be centered over front of machine. Maximum speed is 2.5 mph.
7. On rubber lifting with boom extension not permitted.

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# Working range

12,5 m boom - Metric 85%



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# Load chart

12,5 m boom - Metric 85%



5,5 m - 12,5 m



100%



360°



5,5 m - 12,5 m



100%



Over front



Kilograms



Kilograms

Radius in Meters	Main Boom Length in Meters			
	5,5	7,9	10,4	12,5
1,8	13 600 (66,5)			
2,4	12 300 (59)	8980 (70)		
3	10 875 (50,5)	8980 (65)		
3,7	9750 (38,5)	8595 (59)	7870 (67,5)	
4,3	7160 (23,5)	7300 (53,5)	6870 (63,5)	6145 (68,5)
4,4	6260 (19,5)	7000 (52,5)	6690 (63)	5985 (68)
4,9		5785 (47,5)	5750 (60)	5530 (65,5)
5,5		4760 (40,5)	4725 (55,5)	4885 (62,5)
6,1		4015 (32)	3985 (51,5)	4110 (59,5)
6,7		3455 (20)	3430 (46,5)	3525 (56)
6,9		3300 (12,5)	3275 (45)	3360 (55)
7,3			2995 (41,5)	3070 (52,5)
7,9			2640 (35,5)	2700 (49)
8,5			2350 (28,5)	2400 (45)
9,1			2105 (18,5)	2145 (40,5)
9,3			2035 (12,5)	2070 (39)
9,8				1895 (35)
10,4				1715 (29)
11				1560 (21)
11,4				1465 (12,5)

NOTE: ( ) Boom angles are in degrees. 80101709

Radius in Meters	Main Boom Length in Meters			
	5,5	7,9	10,4	12,5
1,8	13 600 (66,5)			
2,4	12 300 (59)	8980 (70)		
3	10 875 (50,5)	8980 (65)		
3,7	9750 (38,5)	8595 (59)	7870 (67,5)	
4,3	8390 (23,5)	7575 (53,5)	6870 (63,5)	6145 (68,5)
4,4	6260 (19,5)	7370 (52,5)	6690 (63)	5985 (68)
4,9		6755 (47,5)	6165 (60)	5530 (65,5)
5,5		5980 (40,5)	5575 (55,5)	4990 (62,5)
6,1		5040 (32)	4950 (51,5)	4580 (59,5)
6,7		4345 (20)	4265 (46,5)	4225 (56)
6,9		4060 (12,5)	4075 (45)	4145 (55)
7,3			3735 (41,5)	3805 (52,5)
7,9			3315 (35,5)	3350 (49)
8,5			2970 (28,5)	2980 (45)
9,1			2685 (18,5)	2675 (40,5)
9,3			2600 (12,5)	2585 (39)
9,8				2380 (35)
10,4				2165 (29)
11				1975 (21)
11,4				1865 (12,5)

NOTE: ( ) Boom angles are in degrees. 80101708

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# Load chart

## 12,5 m boom - Metric 85%



Kilograms

Radius in Meters	4,6 m LENGTH		
	0° OFFSET	15° OFFSET	30° OFFSET
5,5	3340 (70)		
6,1	3270 (68)		
6,7	3015 (66)	2170 (69,5)	
7,3	2730 (63,5)	2070 (67)	1655 (70)
7,9	2535 (61)	1945 (64,5)	1595 (67,5)
8,5	2400 (58,5)	1865 (62,5)	1545 (65)
9,1	2200 (56,5)	1765 (60)	1490 (62,5)
9,8	1955 (53,5)	1710 (57)	1450 (59,5)
10,4	1780 (50,5)	1630 (54,5)	1415 (57)
11	1630 (48)	1565 (51,5)	1370 (54)
11,6	1495 (45)	1510 (48,5)	1345 (51)
12,2	1375 (42)	1395 (45,5)	1320 (47,5)
12,8	1270 (38,5)	1285 (42)	1290 (44)
13,4	1175 (35)	1190 (38,5)	1220 (40)
14	1090 (31)	1105 (34,5)	1125 (35,5)
14,6	1015 (26,5)	1025 (29,5)	
15,2	945 (21)	955 (23,5)	
15,8	880 (12,5)		
16	860 (6,5)		

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### NOTES:

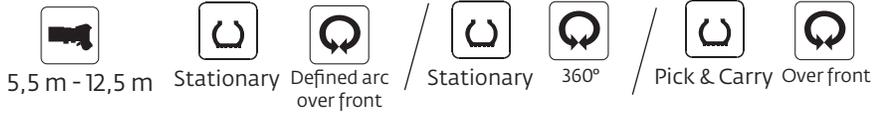
1. 4,6 m boom extension may be used for single line lifting service only.
2. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

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# Load chart

12,5 m boom - Metric 85%



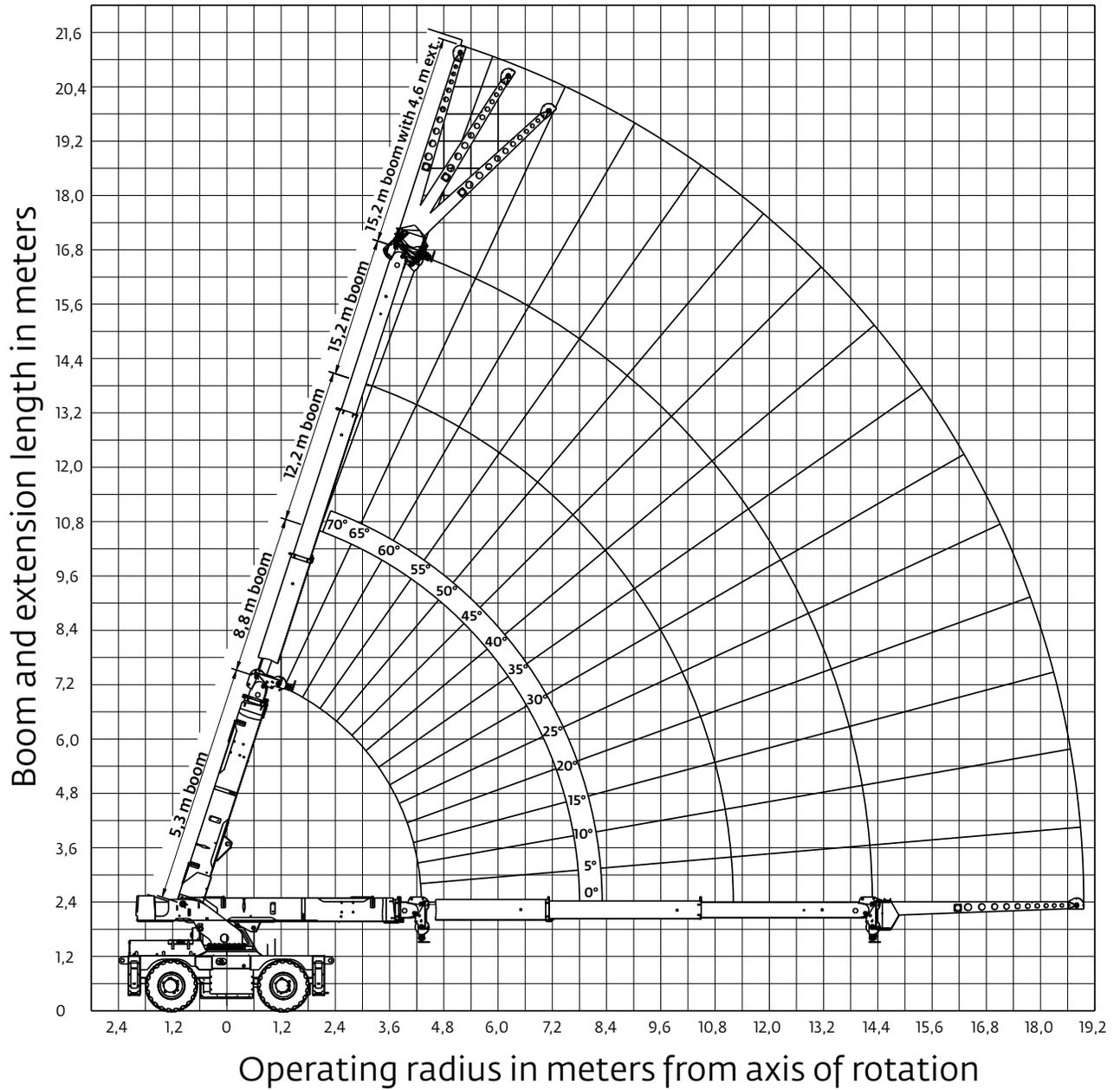
Radius in Meters	Defined Arc 8° Over Front	Stationary 360°
1,8	8765	6570
2,4	7075	5045
3	5870	4055
3,7	4495	3250
4,3	3485	2565
4,4	3355	2465
4,9	2900	2115
5,5	2415	1760
6,1	2045	1480
6,7	1760	1260
6,9	1675	1195
7,3	1540	1120
7,9	1350	975
8,5	1190	855
9,1	1050	755
9,3	1010	720
9,8	945	650
10,4	845	575
11	755	510
11,4	700	470

1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
2. Capacities are applicable to machines equipped with outrigger R4 385/65 D22.5 at 8,6 bar cold inflation pressure.
3. Capacities are applicable only with machine on a smooth, level and firm surface.
4. Defined Arc - Over front includes 8° on either side of longitudinal centerline of machine.
5. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
6. For pick and carry operation, the boom, using the shortest practical boom length, must be centered over front of machine. Maximum speed is 4,0 kmh.
7. On rubber lifting with boom extension not permitted.

80101710

# Working range

15,2 m boom - Metric 85%



# Load chart

15,2 m boom - Metric 85%



5,3 m - 15,2 m



100%



360°



Kilograms



5,3 m - 15,2 m



100%



Over front



Kilograms

Radius in Meters	Main Boom Length in Meters			
	5,3	8,8	12,2	15,2
1,8	13 600 (65)			
2,4	11 675 (57)			
3	9635 (48)	7685 (67,5)		
3,7	8040 (34,5)	7685 (62,5)		
4,3	5920 (12)	7030 (57,5)	6780 (68)	
4,9		5550 (52,5)	5645 (65)	
5,5		4550 (47,5)	4615 (62)	4585 (68)
6,1		3835 (42)	3875 (58,5)	3850 (65,5)
6,7		3290 (35)	3315 (55)	3300 (63)
7,3		2860 (26)	2880 (51,5)	2865 (60,5)
7,8		2570 (13)	2585 (48)	2575 (58)
7,9			2530 (47,5)	2520 (58)
8,5			2245 (43,5)	2235 (55)
9,1			2000 (39)	2000 (52)
9,8			1765 (32,5)	1770 (48,5)
10,4			1590 (25,5)	1600 (45)
11			1440 (15,5)	1455 (42)
11,1			1420 (13)	1430 (41)
11,6				1325 (38)
12,2				1210 (34)
12,8				1105 (29)
13,4				1015 (23)
14				930 (14,5)
14,2				905 (9,5)

NOTE: ( ) Boom angles are in degrees. 80101714

Radius in Meters	Main Boom Length in Meters			
	5,3	8,8	12,2	15,2
1,8	13 600 (65)			
2,4	11 675 (57)			
3	9635 (48)	7685 (67,5)		
3,7	8185 (34,5)	7685 (62,5)		
4,3	5940 (12)	7435 (57,5)	6780 (68)	
4,9		6780 (52,5)	6210 (65)	
5,5		6140 (47,5)	5670 (62)	5510 (68)
6,1		5085 (42)	4920 (58,5)	4940 (65,5)
6,7		4305 (35)	4190 (55)	4200 (63)
7,3		3705 (26)	3630 (51,5)	3635 (60,5)
7,8		3240 (13)	3250 (48)	3250 (58)
7,9			3185 (47,5)	3185 (58)
8,5			2825 (43,5)	2820 (55)
9,1			2525 (39)	2515 (52)
9,8			2235 (32,5)	2225 (48,5)
10,4			2025 (25,5)	2015 (45)
11			1840 (15,5)	1830 (42)
11,1			1810 (13)	1800 (41)
11,6				1670 (38)
12,2				1530 (34)
12,8				1405 (29)
13,4				1290 (23)
14				1190 (14,5)
14,2				1155 (9,5)

NOTE: ( ) Boom angles are in degrees. 80101713

# Load chart

## 15,2 m boom - Metric 85%



Kilograms

Radius in Meters	4,6 m LENGTH		
	0° OFFSET	15° OFFSET	30° OFFSET
6,1	3180 (71,5)		
6,7	2810 (69,5)		
7,3	2570 (67,5)	2255 (71)	
7,9	2380 (65,5)	2120 (69)	1685 (72)
8,5	2265 (63,5)	2050 (67)	1630 (70)
9,1	2130 (61,5)	1910 (65)	1585 (67,5)
9,8	1885 (59,5)	1785 (62,5)	1545 (65,5)
10,4	1700 (57)	1720 (60,5)	1505 (63)
11	1545 (55)	1575 (58,5)	1465 (61)
11,6	1405 (53)	1425 (56)	1430 (58,5)
12,2	1285 (50,5)	1295 (54)	1345 (56)
12,8	1175 (48)	1180 (51,5)	1220 (53,5)
13,4	1080 (45,5)	1075 (49)	1115 (51)
14	990 (43)	980 (46,5)	1015 (48,5)
14,6	910 (40,5)	895 (43,5)	925 (45,5)
15,2	840 (37,5)	815 (40,5)	845 (42,5)
15,8	770 (34)	745 (37,5)	770 (39)
16,5	700 (30)	670 (33)	690 (34,5)
17,1	645 (26)	610 (29)	630 (30)
17,7	595 (21,5)	555 (24)	
18,3	550 (15)	505 (17)	
18,7	520 (7,5)		

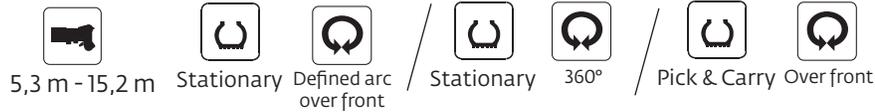
### NOTES:

1. 4,6 m boom extension may be used for single line lifting service only.
2. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

80101716

# Load chart

15,2 m boom - Metric 85%



Radius in Meters	Defined Arc 8° Over Front	Stationary 360°
1,8	7255	5445
2,4	6165	4490
3	5310	3850
3,7	4360	3210
4,3	3315	2480
4,9	2935	2095
5,5	2415	1715
6,1	2020	1430
6,7	1715	1205
7,3	1465	1020
7,8	1295	890
7,9	1285	880
8,5	1130	785
9,1	985	675
9,8	835	565
10,4	730	485
11	635	410
11,1	620	400
11,6	595	350
12,2	520	295
12,8	455	245
13,4	395	195
14	340	155
14,2	325	140

80101715

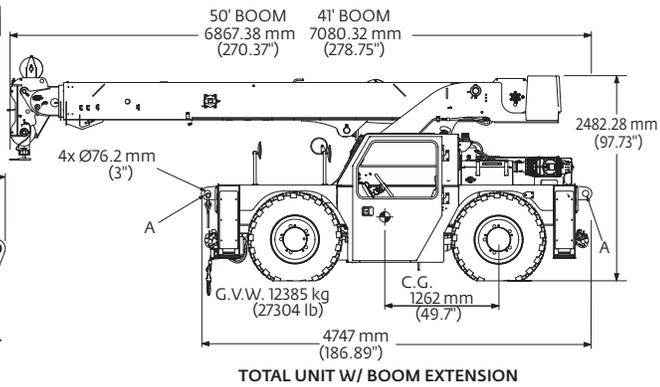
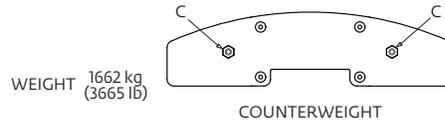
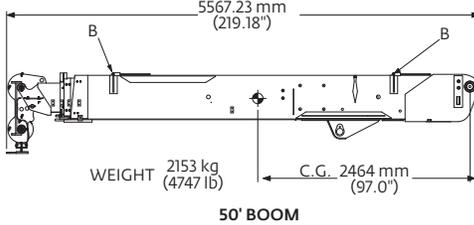
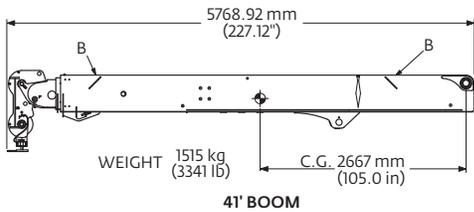
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6. For pick and carry operation, the boom, using the shortest practical boom length, must be centered over front of machine. Maximum speed is 4,0 kmh.
7. On rubber lifting with boom extension not permitted.

# Transportation and lifting data

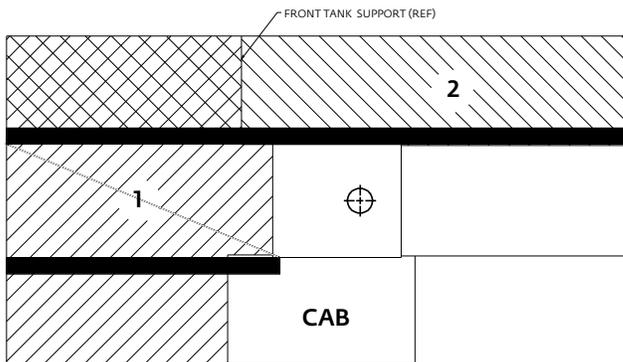
## TRANSPORTATION AND LIFTING DATA

- LIFTING OF ENTIRE CRANE OR MAJOR CRANE ASSEMBLIES MUST BE ACCOMPLISHED BY UTILIZING SPECIFIC FITTINGS INDICATED ON ADJACENT CHART. USE OF FITTINGS FOR PURPOSES OTHER THAN THOSE DESIGNATED ON CHART IS PROHIBITED. FITTING CAPACITIES ARE MAXIMUM ALLOWABLE LOADS PER INDIVIDUAL FITTING.
- RIGGING PERSONNEL SHALL BE RESPONSIBLE FOR PROPER SELECTION AND PLACEMENT OF ALL SLINGS AND LOAD HANDLING DEVICES.
- DIMENSIONS AND WEIGHTS SHOWN ARE ESTIMATED FOR LARGEST CONFIGURATION AVAILABLE. WEIGHTS DO NOT INCLUDE BOOM EXTENSION AND OR JIB, UNLESS OTHERWISE INDICATED.
- RIGGING PERSONNEL SHALL VERIFY DIMENSIONS AS REQUIRED FOR CLEARANCE.
- DO NOT USE COUNTERWEIGHT LIFT LOCATIONS OR BOOM SLING POINT FOR LIFTING OR TIE DOWN OF ENTIRE CRANE.
- LIFTING OF COUNTERWEIGHT TO BE ACCOMPLISHED WITH A PROPERLY RATED 1 1/4"-7 UNC FITTINGS.

FITTING	NO. / UNIT				BOOM LIFT	CWT LIFT	CAPACITY-TONNES [TONS]				
		LIFT	TOW	TIE DOWN			LIFT	TOW	TIE DOWN		
									FORE & AFT	SIDE	DOWN
A	4	X	X	X			25.4 [28]	25.4 [28]	25.4 [28]	7.3 [8]	25.4 [28]
B	4				X		1.8 [2]				
C	2					X	0.91 [1]				



## LOAD DISTRIBUTION FOR CARRYDECK



Maximum allowable uniformly distributed load:

AREA 1  
8165 kg (18,000 lb)

OR

AREA 2  
5897 kg (13,000 lb)

- Maximum travel speed with any or all loads - 4,0 kmh (2.5 mph)
- Loads to be transported on smooth level firm surfaces only.
- Boom must be retracted and in center forward position, and lowered as much as the load allows.
- Pick and carry loads may be transported on either Deck Area 1 or Deck Area 2; combined loading of Deck Area 1 and Deck Area 2 not permitted.
- Lifting is not permitted when carrydeck is loaded except for loading and unloading carrydeck.
- The maximum pick and carry loads may be transported on deck area 1 provided the load is centered over the front axle and cribbed directly on the frame rails.

# Load handling

## WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

4,6 m (15 ft) FIXED OFFSETTABLE EXTENSION	
*Stowed	N/A
*Erected	295 kg (650 lb)

\*Reduction of main boom capacities

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.

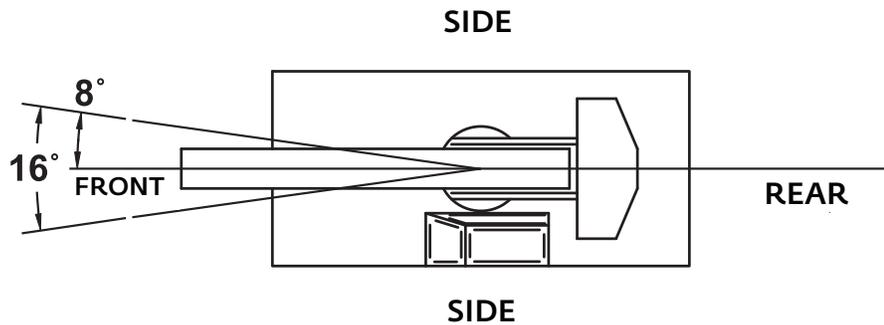
HOOK BLOCKS AND HEADACHE BALLS	
18 t (20 USt), two-sheave hook block	176 kg (388 lb)+
5,7 t (6.25 USt) downhaul weight	48 kg (105 lb)+

+Refer to rating plate for actual weight

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.

TIRE INFLATION - BAR (PSI)		
SIZE (FRONT & REAR)	PLY RATING	LIFTING SERVICE, GENERAL TRAVEL & EXTENDED TRAVEL
		STATIC & 4,0 KM/H (2.5 MPH)
OUTRIGGER R4 385/65 D22.5	16	8,6 (125)

## LIFTING AREA DIAGRAM



## LINE PULLS AND REEVING INFORMATION

HOISTS	CABLE SPECS.	PERMISSIBLE LINE PULLS	NOMINAL CABLE LENGTH
Main	14 mm (9/16") 6x19 class Bridon EEIPS (XXIPS) Min. breaking strength 16,780 kg (37,000 lb)	3856 kg (8500 lb)*	98 m (320 ft)

The approximate weight of 14 mm (9/16") wire rope is 0,9 kg/m (0.59 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.

## Superstructure



### Boom

5,5 m – 12,5 m (18 ft - 41 ft) full-power main boom. Three-section boom with two (2) powered sections.

Maximum tip height: 14,2 m (46.5 ft).



### \*Optional boom

5,3 m – 15,2 m (17.3 ft - 50 ft) full-power main boom. Four-section boom with three (3) powered sections.

Maximum tip height: 16,5 m (54 ft).



### \*Optional swingaway extension\*

4,6 m (15 ft) offsettable swingaway extension. Offsets 0°, 15° and 30° via pivoting boom nose. Stows alongside base boom section.

Maximum tip height: 21,18 m (69.5 ft).



### Boom nose

Nylatron sheaves mounted on heavy-duty needle roller bearings with removable pin-type rope guards. Quick reeve type boom nose with three-position (0°, +40°, and + 80°) pivoting to minimize head height requirements. Lowers head height by 0,4 m (1.3 ft).



### Boom elevation

Single double acting hydraulic cylinders with integral holding valves provides elevation from 0° to +72°.



### Anti-two block device

Standard anti-two block device, which, when activated, provides an audible warning to the operator and "locks-out" all functions whose movement can cause two-blocking.



### Rated Capacity Limiter (RCL)

Black and white, graphical display of boom angle, boom length, boom radius, rated load, and calculated load. Allows for operator inputs to set the crane configuration. RCL system is hardwired and calculates load via pressure transducers in the lift cylinder. Display includes a color-coded light bar and audible alarm with function cut-out if load exceeds the load chart parameters.



### Swing

Ball bearing swing circle with 360° continuous rotation. Worm gear and pinion driven by hydraulic motor.

Maximum speed: 2,0 rpm



### Hydraulic system

One pressure compensated variable displacement axial piston pump with load sensing.

Maximum output of: 130,6 lpm (34.5 gpm).

Maximum operating pressure: 241 bars (3500 psi).

Four-section valve bank, chassis mounted, operated via dash mounted, hydraulic pilot controls. 130,6 L (34.5 gal) hydraulic reservoir with sight level gauge and steel side plating to guard against side impacts.

5 micron return line filter with full flow by-pass protection and service indicator.



## Hoist specifications

Geroler motor driven with automatic spring-applied / hydraulically released wet brake. Drum rotation indicator in the hoist joystick control and hoist direction indicator light on dashboard.

Maximum hoist pull (first layer): 4282 kg (9440 lb)

Maximum permissible single line pull: 3856 kg (8500 lb)  
(3.5:1 design factor)

Maximum single line speed: 35,66 m/min (117 fpm)

Rope construction: 6X19 EEIPS/IWRC

Rope diameter: 14 mm (9/16 in)

Rope length: Main hoist: 97,5 m (320 ft)

Maximum rope stowage: Main hoist: 90,83 m (298 ft)

## Carrier



### Chassis

High-strength alloy frame constructed with integral outrigger housings; front and rear lifting, tie-down, and towing lugs. 5,57 m<sup>2</sup> (60 ft<sup>2</sup>) carrydeck size with 8165 kg (18,000 lb) deck only carrying capacity. Deck coated with anti-skid treatment.



### Outriggers

Hydraulically powered oblique-style single-stage outriggers that are independently controlled using the main control valve that provides 10,16 cm (4 in) of lift off the ground for leveling the crane. Outrigger cylinders have an integral holding valve.

Outrigger pad size:

27,3 cm x 40,64 cm (10.75 in x 16 in)

Maximum outrigger pad load:

13 608 kg (30,000 lb)



### Outrigger controls

Independent outrigger controls. 360° bubble level located inside cab.



### Engine (EPA Tier 4F)

Cummins QSF 3.8L, four-cylinder / turbo-charged diesel rated at 55.1 kW (74 hp) at 2200 rpm. Standard 120 V engine block heater and cold weather intake grid heater. Engine hour meter located in dash display. Alternator 145 amp.

Complies with EPA Tier 4 Final emissions standards without the use of an SCR or UREA injected DEF system.

Maximum torque: 399,9 N-m (295 ft lb) at 1300 rpm.

Note: Tier 4F engine required in North American countries.

Fuel requirements: Maximum of 15 ppm ultra-low sulfur diesel fuel

*\*Denotes optional equipment*

# Specifications



## Engine (EPA Tier 3)

Cummins QSF 3,8L, four-cylinder / turbo-charged diesel rated at 74 kW (99 hp) at 2200 rpm. Standard 120 V engine block heater and cold weather intake grid heater. Engine hour meter located in dash display. Alternator 135 amp.

Maximum torque: 420,3 Nm (310 ft/lb).

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



## Engine (Dual Fuel)

G.M. 4,3 L V-6 dual-fuel engine rated at 80,54 kW (108 hp) 2200 rpm.



## Fuel tank capacity

100 L (26.4 gal)



## Transmission

Powershift with four speeds forward and three speeds reverse. Stalk mounted direction shifter with rotary gear selection.



## Operators control station

Frame mounted, open air style control station with cab shell includes all crane functions, driving controls, and overhead safety glass. Other standard equipment includes a deluxe seat with seat belt, hour meter, sight level bubble, and 1,13 kg (2.5 lb) fire extinguisher.

The dash panel includes a multi-cluster gauge showing fuel, water temperature, battery voltage and engine fault codes. An engine monitoring indicator lamp shows engine warning, stop engine, wait to start, transmission high temperature, low brake system pressure, and hydraulic oil temperature. The RCL display is mounted to the top of the front dash.



## \*Operators control station enclosed

Includes the standard cab shell with the addition of front, rear, and right side glass, a split (2 piece) hinged door with sliding glass, front windshield wiper and washer, hot water heater and defroster with fan and cab dome light are included.



## Electrical system

One 12 V maintenance-free battery, 1125 CCA each at 0°. 135 amp alternator.



## Drive

Two-wheel (front-wheel) as standard with four-wheel drive as an option. Drive axles supplied with planetary hubs and limited slip differential.



## Steering

Standard three steering modes. Front two-wheel, four-wheel coordinated, and four-wheel crab steer with electronic self alignment, three-position rocker selector on dash panel.

Outside turning radius:

Two-wheel steer: 5,32 m (17 ft 5.37 in)

Four-wheel steer: 2,86 m (9 ft 4.44 in)



## Axles

Front: Drive/steer in both two-wheel drive and four-wheel drive

Rear: Non-drive with steer in two-wheel drive, drive/steer in four-wheel drive

Front and rear axle are rigid mounted to frame. Rear axle offers 1.5° of oscillation with four-wheel drive option only.



## Brakes

Hydraulic actuated internal wet-disc service brake acting on all four wheels. Dash mounted toggle switch with light for activating or release of the dry disc parking brake mounted on the transmission output yoke.



## Tires

Standard: 385/65R 22.5 High traction tread radial type tires



## Light

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



## Maximum speed

25.75 km/h (16 mph)



## Gradeability (theoretical)

40%.....(at engine stall) loaded

## Gross vehicle weight (GVW)

Open cab: 11 285 kg (24,877 lb)

Enclosed cab: 11 412 kg (25,160 lb)

## Miscellaneous standard equipment

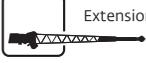
- 18,14 t (20 USt) quick-reeve, two-sheave hook block
- Back-up motion alarm
- Outrigger motion alarm
- Hoist drum rotation indicator

## \*Optional equipment

- Auxiliary lighting: includes amber strobe light and boom mounted work lights
- Convenience package: includes front and rear pintle hitch and headlight/taillight grille covers
- Enclosed cab package: includes heater and defroster, cab dome light, all window glass, and two-piece split door
- Offsettable swing away boom extension with hook and downhaul weight
- Air conditioner
- Wire rope third wrap indicator with hoist function cut-out
- 4535 kg (10,000 lb) capacity hydraulic below-deck mounted tow winch
- Four-wheel drive with 1.5° rear axle oscillation
- Searcher hook

*\*Denotes optional equipment*

# Symbols glossary

 Axles	 Drive	 Hoist	 Rated Capacity Limiter (RCL)
 Boom	 Electrical system	 Hook block	 Rotation
 Boom elevation	 Engine	 Hydraulic system	 Speed
 Boom extension	 Extension	 Insert	 Steering
 Boom length	 Frame	 Lights	 Suspension
 Boom nose	 Fuel tank capacity	 Oil	 Swing
 Brakes	 Gear	 Outrigger controls	 Tires
 Cab	 Grade	 Outriggers	 Transmission
 Counterweight	 Heavy-duty jib	 Radius	

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