



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 boommounted work lights
- Below-deck winch
- Air-conditioning

> Customized Lift Solution Options

Standard options may not always meet the job requirements. Consult your local dealer for a Lift Solution quote for customized options, such as:

- Non-marking tires
- Oil cooler
- Barge charts
- · External light bar
- Spark arrestor









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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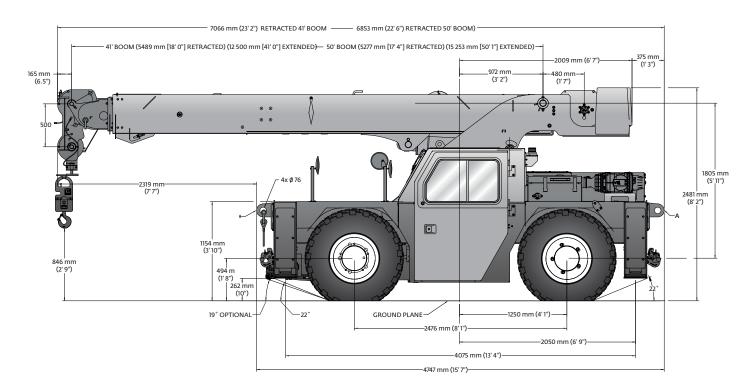
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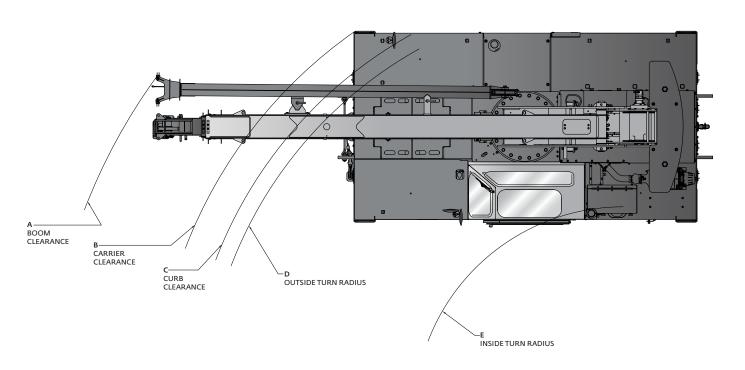
Table of contents

Dimensions and weights	. 5
Working range and load charts - 41 ft boom (Imperial 85%)	. 7
Working range and load charts - 50 ft boom (Imperial 85%)	. 11
Working range and load charts - 12,5 m boom (Metric 85%).	. 15
Working range and load charts - 15,2 m boom (Metric 85%).	. 19
Transportation and lifting data	. 23
Load handling	. 24
Specifications	. 25
Symbols glossary	. 27

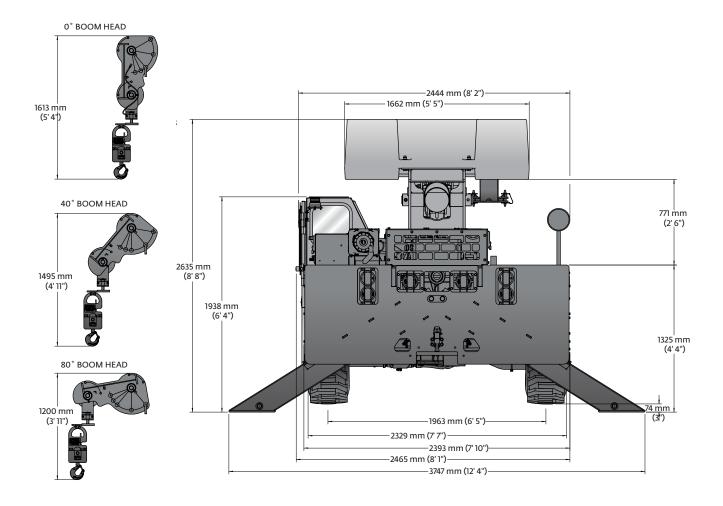
Dimensions and weights

Dimension	าร									
Tire size	Α	В	С	D	Е	Α	В	С	D	Е
385/65	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)
D22.5	Two-wheel steer (radius)				Four-	wheel steer (r	adius)			

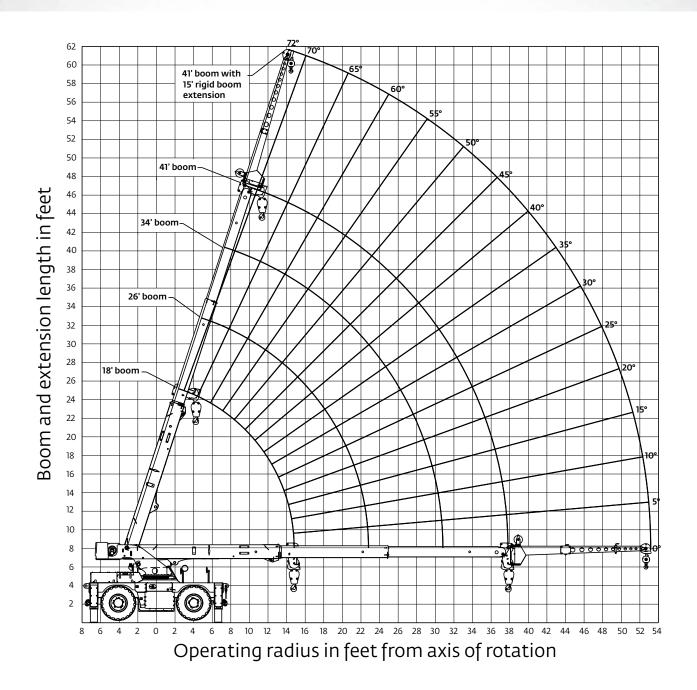




Dimensions and weights



Weights						
	G\	/W	Front		Re	ar
	kg	lb	kg	lb	kg	lb
Basic machine: including 12,5 m (41.0 ft) main boom, hoist with 72 m (235 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
Add: 4,6 m (15 ft) fixed swingaway extension and extension carrier brackets and downhaul weight.	245	540	375	828	-130	-287
Crane weight	11 734	25,869	5704	12,574	6030	13,295
Basic machine: including 12,5 m (41.0 ft) main boom, main hoist with 72 m (235 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
Add: Enclosed cab with heater and defroster.	89	196	41	90	48	106
Crane weight	11 578	25,525	5369	11,838	6209	13,687



41 ft boom - Imperial 85%

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18 ft - 41 ft	100%	360°

Radius	M	Main Boom Length in Feet				
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. 801	101697
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18 ft - 41 ft	100%	Over
		front
	A D-	

Radius	M	lain Boom	Length in I	eet
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.

Load chart 41 ft boom - Imperial 85%





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

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.

41 ft boom - Imperial 85%

















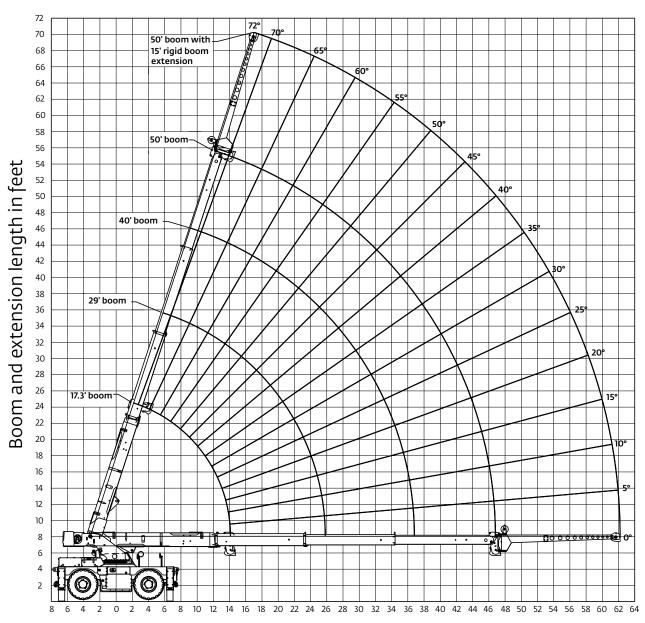




Pounds

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

- 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.



Operating radius in feet from axis of rotation

50 ft boom - Imperial 85%







Pounds







100%

front



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Pounds

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

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OTE:()	Boom angle	es are in deg	grees.	80101703	

Radius	Main Boom Length in Feet				
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.

50 ft boom - Imperial 85%











Pounds

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

50 ft boom - Imperial 85%

















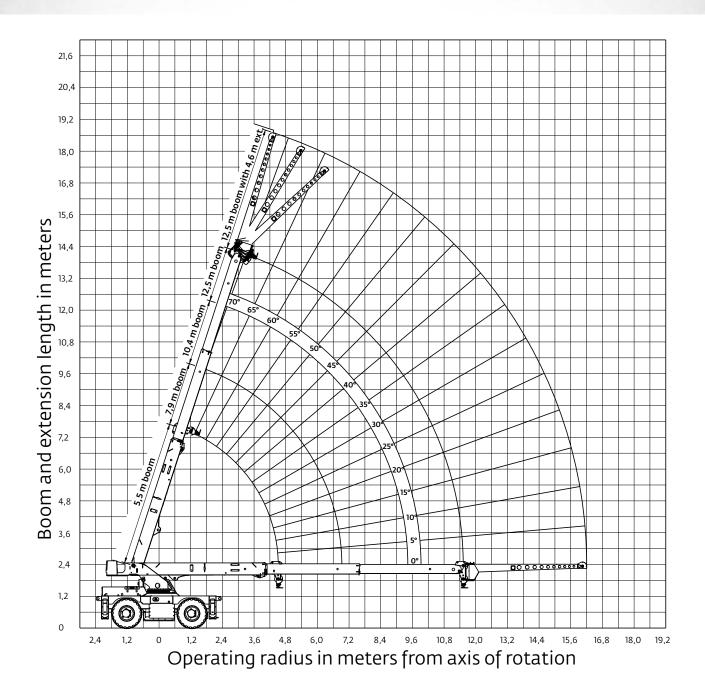




Pounds

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

- 1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with
- 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.



12,5 m boom - Metric 85%















Kilograms —————

Radius	Main Boom Length in Meters					
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.

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front





Kilograms

Radius	Main Boom Length in Meters					
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.

12,5 m boom - Metric 85%







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

12,5 m boom - Metric 85%















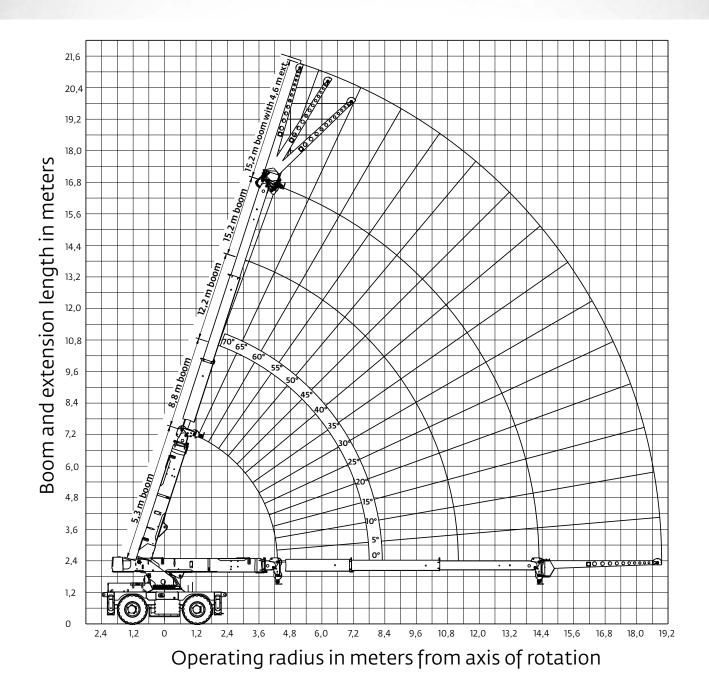
5,5 m - 12,5 m Stationary Defined arc / over front

Stationary

Kilograms

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.



Load chart 15,2 m boom - Metric 85%









Kilograms

Radius in Meters	5,3	8,8	.ength in iv	15,2		
	13 600	0,0	12,2	13,2		
1,8	(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







front





Kilograms-

Dadius.	n I' Main Room Longth in Motors				
Radius in Meters	Main Boom Length in Meters 5,3 8,8 12,2 15,2				
	13 600	0,0	12,2	13,2	
1,8	(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.

15,2 m boom - Metric 85%











Kilograms

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

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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.

15,2 m boom - Metric 85%















5,3 m - 15,2 m Stationary Defined arc / over front

Stationary





Kilograms

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

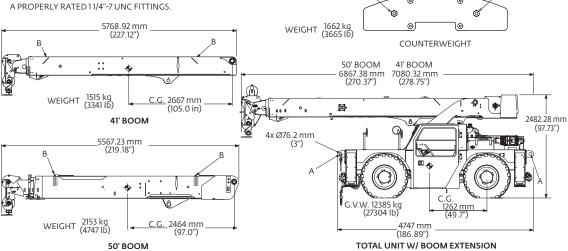
- 1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- 2. Capacities are applicable to machines equipped with outrigger R4 385/65 D22.5 at 8,6 bar cold inflation pressure.
- 3. Capacities are applicable only with machine on a smooth, 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.

Transportation and lifting data

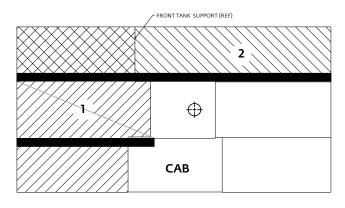
TRANSPORTATION AND LIFTING DATA

- 1. 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.
 2. RIGGING PERSONNEL SHALL BE RESPONSIBLE FOR PROPER SELECTION AND PLACEMENT OF ALL SLINGS AND LOAD HANDLING DEVICES.
- 3 DIMENSIONS AND WEIGHTS SHOWN ARE ESTIMATED FOR LARGEST CONFIGURATION AVAILABLE. WEIGHTS DO NOT INCLUDE BOOM EXTENSION AND OR JIB, UNLESS OTHERWISE INDICATED
- 4. RIGGING PERSONNEL SHALL VERIFY DIMENSIONS AS REQUIRED FOR CLEARANCE
- 5. DO NOT USE COUNTERWEIGHT LIFT LOCATIONS OR BOOM SLING POINT FOR LIFTING OR TIE DOWN OF ENTIRE CRANE.
- 6. LIFTING OF COUNTERWEIGHT TO BE ACCOMPLISHED WITH A PROPERLY RATED 11/4"-7 UNC FITTINGS

	⊢				воом	CWT	CAPACITY-TONNES [TONS]				NS]
잏	/ UNIT		_	MN					TI	E DOW	N
FITTING	NO./	띰	TOW	TIE DOWN	LIFT	LIFT	LIFT	TOW	FORE & AFT	SIDE	DOWN
Α	4	Х	Х	Χ			25.4 [28]	25.4 [28]	25.4 [28]	7.3 [8]	25.4 [28]
В	4				Х		1.8 [2]				
С	2					Х	0.91 [1]				



LOAD DISTRIBUTION FOR CARRYDECK



Maximum allowable uniformly distributed load:

AREA1 8165 kg (18,000 lb)

OR

AREA 2 5897 kg (13,000 lb)

- 1. Maximum travel speed with any or all loads 4,0 kmh (2.5 mph)
- 2. Loads to be transported on smooth level firm surfaces only.
- 3. Boom must be retracted and in center forward position, and lowered as much as the load allows.
- 4. 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.
- 5. Lifting is not permitted when carrydeck is loaded except for loading and unloading carrydeck.
- 6. 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					
5,7 t (6.25 USt) downhaul weight	48 kg (105 lb)+				

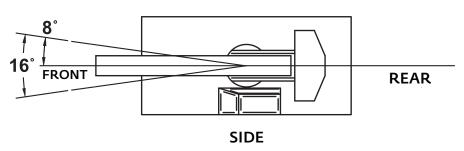
+Refer to rating plate for actual weight

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			
(FRONT & REAR)		STATIC & 4,0 KMH (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 (41 ft boom) Main (47 ft boom) 14 mm (9/16") 6x19 class Bridon EEIPS (XXIPS) Min. breaking strength 16,780 kg (37,000 lb)		3856 kg (8500 lb)*	72 m (235 ft)
Main (50 ft boom)	Main (50 ft boom) Main (50 ft boom) 14 mm (9/16") 6x19 class Bridon EEIPS (XXIPS) Min. breaking strength 16,780 kg (37,000 lb)		84.7 m (278 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.

Specifications

Superstructure



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 threeposition (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)

Full-color, 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.



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 12,5 m (41 ft) boom: 72 m (235 ft) Main hoist 15,2 m (50 ft) boom: 84,7 m (278 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 m² (60 ft²) 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

Specifications



Engine (EPA Tier 3)

*Please consult factory for availability.

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)

GM 4.3L EFI V-6 gasoline 90 HP @ 2200 rpm / LP gas engine (07 EPA) 87 HP @ 2200 rpm (LP tank not included) with engine shutdown feature and spark arrestor.



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.



5 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.



$|\mathbf{\hat{I}}|$ 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)

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

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



O 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.



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

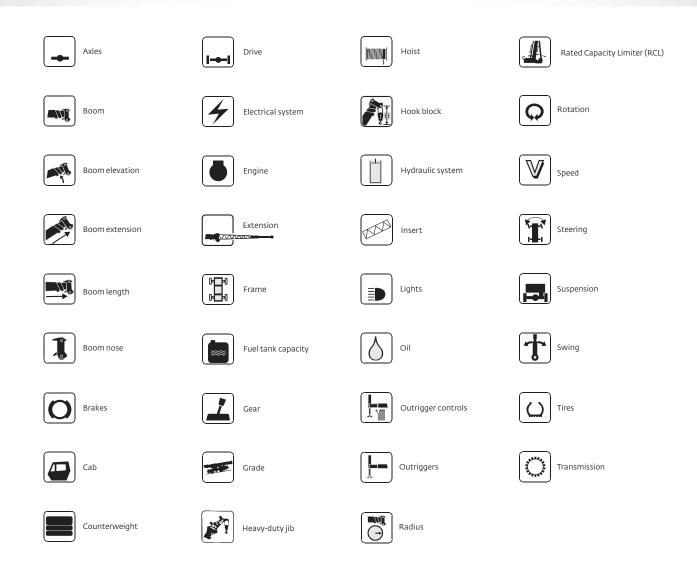
- 18,14 t (20 USt) quick-reeve, two-sheave hook block
- Back-up motion alarm
- Outrigger motion alarm
- Hoist drum rotation indicator

*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
- · Offsetable 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





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