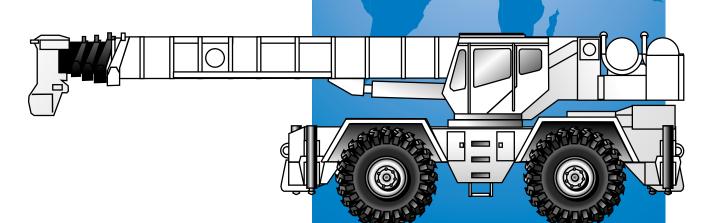


RT865BXL



Rough Terrain Hydraulic Crane

Dimensions TAILSWING 14' (4280) 24' (7315) 10' 10-1/2" (3315) TRACK 8' 4-1/2" (2553) 26' 6-1/2" (8090) 24' 11" (7595) 3' 7" (1310) 7' 3" (2210) 1' 3" (381) 13' 1/2" (3975) 1' 2-3/8" | 2' 1" | (635) 1' 8" (508) 12' 8" (3861) 1' 8" (508) 14' 11" (4546) 28' 3" (8611) Note: () Reference dimensions in mm **Turning Radius.....** 22' 6" (6858 mm) Front Axle Load 52,239 lbs. (23 695 kg)

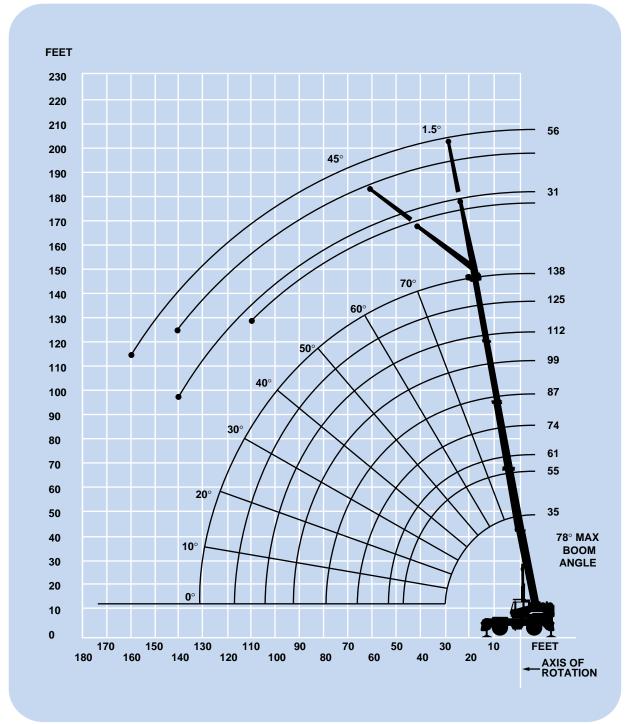
2 RT865BXL

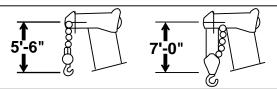
Rear Axle Load..... 50,601 lbs. (22 953 kg)

Gross Vehicle Weight 102,840 lbs. (46 648 kg)

Working Range







DIMENSIONS ARE FOR LARGEST GROVE FURNISHED HOOK BLOCK AND HEADACHEBALL, WITH ANTI-TWO BLOCK ACTIVATED.

Superstructure specifications

Boom

35 ft. - 138 ft. (10.6 m - 42 m) five-section full power boom.

Maximum Tip Height: 148 ft. (45.1 m).

Folding Lattice Extension

31 ft. - 56 ft. (9.4 m - 17 m) bi-fold lattice swingaway extension offsettable at 1.5° or 45° Stows alongside base section.

Maximum Tip Height: 204 ft. (62.1 m).

*Optional Lattice Extension

31 ft. (9.4 m) lattice swingaway extension. Offsettable at 1.5° or 45°. Stows alongside base boom section. Maximum Tip Height: 179 ft. (54.5 m).

Boom Nose

Five Nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeving type boom nose. A removable auxiliary boom nose with removable pin type rope guard.

Boom Elevation

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

Load Moment & Anti-Two Block System

Standard load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load and load indication and warning of impending two-block condition.

Cab

Full vision, all galvanealed steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat with armrest mounted hydraulic single axis controllers. Dash panel incorporates gauges for engine functions. Other standard features include: skylight screen, hydraulic oil cab heater/defroster, telescoping tilt wheel, sliding side and rear windows, opening skylight, electric windshield wash-wipe, electric skylight wipers, fire extinguisher, seat belt, ashtray and level indicator.

Swina

Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released swing brake, 360° positive swing lock (N.Y.C. style) and 1 position, mechanical house lock, operated from cab. Maximum speed: 2.0 RPM.

Counterweight

Removable: 8,500 lbs. (3855 kg). 2,155 lbs. (977 kg) slab I.P.O. auxiliary hoist.

Hydraulic System

Seven main pumps with a combined capacity 199.2 GPM (754 LPM). Maximum operating pressure 3500 psi (241 bar). Three individual valve banks. Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16. 200 gallons (757 L) reservoir. Remote mounted oil cooler with thermostatically controlled hydraulic motor driven fan/air to oil. System pressure test panel with quick release type fittings for each circuit.

Hoist Specifications Main and Auxiliary Hoist

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

Maximum Single Line Pull: 16,969 lbs.

(7697 kg)

Maximum Single Line Speed: 385 FPM

(117 m/min)

Maximum Permissible 12,920 lbs. Line Pull: (5860 kg)

Rope Diameter: 3/4 in.

(19 mm)

Rope Length: 620 ft.

(190 m)

Maximum Rope Stowage: 1,163 ft.

(354.5 m)

Carrier specifications

Chassis

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

Outrigger System

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position setting. All steel fabricated quick release type outrigger floats, 30.5" (77.5 mm) diameter.

Maximum outrigger pad load: 94,000 lbs. (42 638 kg).

Outrigger Controls

Controls and crane level indicator located in cab.

Engine

Cummins 6CTA 8.3 diesel, six cylinders, turbocharged, 250 bhp (186 kW) (Gross) @ 2,200 RPM.

Maximum torque: 794 ft. lbs. (1077 Nm) @ 1,500 RPM.

*Optional Engine

Caterpillar 3126TA diesel, six cylinders, turbocharged, 250 bhp (186 kW) (Gross) @ 2,500 RPM.

Maximum torque: 686 ft. lbs. (930 Nm) @ 1,650 RPM.

Fuel Tank Capacity

80 gallons (303 L)

Transmission

Full powershift with 6 forward and 6 reverse speeds. Rear axle disconnect for 4 x 2 travel.

Electrical System

Two 12 V - maintenance free batteries. 24 V starting and lighting.

Drive

4 x 4.

Steering

Fully independent power steering:

Front: Full hydraulic steering wheel controlled.
Rear: Full hydraulic hand lever controlled.
Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated.
Rear steer indicating gauge.

Axles

Front: Drive steer with differential and planetary

reduction hubs rigid mounted to frame.

Rear: Drive/steer with differential and planetary

reduction hubs pivot mounted to frame. Automatic full hydraulic lockouts on rear axle.

Oscillation Lockouts

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

Brakes

Full air split circuit operating on all wheels. Spring-applied, air released front and rear axles.

Tires

Std. 33.25 x 29 - 32PR earthmover type.

*Optional: 33.25R29 radial.

Lights

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

Maximum Speed

25 MPH (40 kph).

Gradeability (Theoretical)

87% based on 102,840 lbs. (46 648 kg) GVW. 33.25 x 29 tires, pumps disengaged, 138 ft. (42 m) boom, plus 31 ft. (9.4 m) swingaway.

Miscellaneous Standard Equipment

Full width steel fenders, dual rear view mirrors, hookblock tiedown, electronic back-up alarm, light package, front stowage well, tachometer/hourmeter, cold start aid (less canister), rear wheel position indicator, hydraulic cab heater, hoist mirrors, engine distress A/V warning system, tire inflation kit.

*Optional Equipment

- * Boom mounted worklights
- * 360° flashing light
- * Cab spotlight remote mounted
- * Engine block heater
- * Hookblocks (quick reeving type)
- * Tow winch front mounted maximum pull 15,000 lbs. (6804 kg); maximum speed 92 ft./min. (28 m/min)
- * Spare tire & wheel assembly
- * Tool kit
- * Pintle hook front/rear
- * High Speed Glide system
- * Air conditioning

- * Dual axis joystick controllers
- * Auxiliary oil cooler
- * Emergency steer pump
- * Propane heater
- * T/T lube system
- * Hoist mounted work light
- * Counterweight removal system
- * 3rd wrap indicators (main or auxiliary)
- * LMI light bar
- * Cross axle differential locks
- * Oscillation lockout override control

^{*}Denotes optional equipment



35 - 138 ft. (10.6 - 42.0 m)





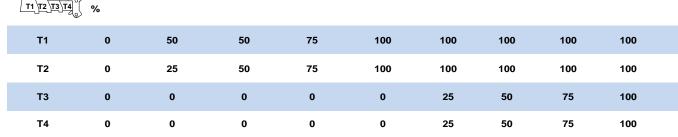


(3855 kg) (Pounds) 55 61 74 87 112 125 138 (Feet) 35 99 78,450 *57,050 130,000 79,100 10 (65.5)(76) (77.5)(80) 106,500 79,100 77,500 57,050 *43,300 12 (62)(73.5)(75.5)(78.5)(80) 90,050 79,100 69,850 51,650 43,300 *32,100 15 (56) (70) (72.5)(76) (78.5)(80) 44,350 (71.5) 68,300 67,350 59,850 32,100 *30,050 *20,150 39,550 (75) 20 (44.5)(64.5)(67.5)(77.5)(80) (80) 51,150 (58) 38,750 (67.5) 33,800 (71.5) 32,100 (74.5) 51,450 52,250 30,050 20,150 *19,000 25 (29.5) (62) **(77) (79)** (80) 39,200 39,450 34,200 29,200 30,200 27,350 19,100 18,300 30 (51) (56.5)(63) (68) (71.5)(74.5)(76.5)(78.5)31,000 31,300 29,050 26,600 24,300 18,100 17,650 25,800 (64) 35 (43.5)**(50)** (58.5)(68.5) $(7\dot{1}.5)$ (74) (76.5)25,050 25,350 22,900 23,450 21,600 17,250 17,000 25,150 40 (34.5)(43)(53.5)(60)(65) (69)(72)(74) 20,500 20,800 20,600 20,450 16,450 20,000 19,250 16,350 45 (21.5)(35) (48.5)(56)(61.5)(66)(69) (72) 17,250 16,850 16,900 17,900 16,900 15,700 15,750 50 (24.5)(42.5)(52)(58.5)(63)(66.5)(69.5)10,500 10,600 11,800 13,000 13,100 13,300 60 (28) (42.5)(51) (61.5)(65) (57)6,500 7,670 8,860 10,050 11,050 70 (30) (42.5)(50) (56) (60) 4,710 (32) 5,910 (42.5) 7,090 8,290 80 (49.5) (55) 2.390 3.690 4.880 6.060 90 (15.5)(49.5)(43) (33.5)1,910 3,170 4,340 100 (21) (35)(43)1,810 2,970 110 (24.5)(36) 1,860 120 (27) Min. boom angle (deg.) for indicated length (no load) 16 18 Max. boom length (ft.) at 0 degree boom angle (no load) 112 NOTE: () Boom angles are in degrees. *This capacity is based upon maximum boom angle.

Boom Angle	35	55	61	74	87	99	112
0 °	27,400	12,850	10,400	6,290	3,380	1,970	1,170
	(28.2)	(47.4)	(53.8)	(66.6)	(79.4)	(92.2)	(105)

NOTE: () Reference radii in feet.

A6-829-014847A



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







8,500 lbs. (3855 kg)



						(Pounds))		
(Feet)	35	55	61	74	87	99	112	125	138
10	115,000 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	101,500 (62)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	86,150 (56)	79,100 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	62,850 (44.5)	56,100 (64.5)	55,000 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	*30,050 (80)	*20,150 (80)	
25	39,750 (29.5)	37,950 (58)	38,300 (62)	35,950 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (77)	20,150 (79)	*19,000 (80)
30		26,000 (51)	26,800 (56.5)	26,450 (63)	25,150 (68)	25,800 (71.5)	26,150 (74.5)	19,100 (76.5)	18,300 (78.5)
35		18,550 (43.5)	19,250 (50)	18,800 (58.5)	18,700 (64)	19,900 (68.5)	20,500 (71.5)	18,100 (74)	17,650 (76.5)
40		13,550 (34.5)	14,100 (43)	13,550 (53.5)	13,550 (60)	14,750 (65)	15,900 (69)	16,750 (72)	17,000 (74)
45		9,890 (21.5)	10,350 (35)	9,800 (48.5)	9,810 (56)	10,950 (61.5)	12,150 (66)	13,300 (69)	14,000 (72)
50			7,560 (24.5)	6,930 (42.5)	6,980 (52)	8,140 (58.5)	9,310 (63)	10,450 (66.5)	11,600 (69.5)
60				2,870 (28)	2,970 (42.5)	4,110 (51)	5,260 (57)	6,400 (61.5)	7,540 (65)
70						1,400 (42.5)	2,530 (50)	3,660 (56)	4,790 (60)
80								1,690 (49.5)	2,810 (55)
90									1,310 (49.5)
0.1A (lbs.)	1,270	1,340	1,310	1,330	1,350	1,230	1,140	1,070	1,010
Min. boom aı	ngle (deg.) fo	r indicated leng	gth (no load)	24	35	40	43	45	47
Max. boom length (ft.) at 0 degree boom angle (no load) 61									

NOTE: () Boom angles are in degrees.
*This capacity is based upon maximum boom angle.

Boom Angle	35	55	61
0 °	27,400	8,500	5,850
	(28.2)	(47.4)	(53.8)

NOTE: () Reference radii in feet.

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T1 T2 T3 T4	%								
T1	0	50	50	75	100	100	100	100	100
T2	0	25	50	75	100	100	100	100	100
Т3	0	0	0	0	0	25	50	75	100
Т4	0	0	0	0	0	25	50	75	100



35 - 138 ft. (10.6 - 42.0 m)



8,500 lbs. (3855 kg)





bs. 0%

						(Pounds))		
(Feet)	35	55	61	74	87	99	112	125	138
10	86,700 (65.5)	71,750 (76)	69,000 (77.5)	*57,050 (80)					
12	65,550 (62)	55,400 (73.5)	53,700 (75.5)	49,100 (78.5)	*43,300 (80)				
15	46,750 (56)	40,050 (70)	39,200 (72.5)	36,150 (76)	33,550 (78.5)	*32,100 (80)			
20	29,400 (44.5)	25,650 (64.5)	25,350 (67.5)	23,500 (71.5)	21,950 (75)	22,400 (77.5)	*22,550 (80)	*20,150 (80)	
25	19,100 (29.5)	17,450 (58)	17,400 (62)	16,050 (67.5)	14,950 (71.5)	15,750 (74.5)	16,200 (77)	16,450 (79)	*16,550 (80)
30		11,450 (51)	12,150 (56.5)	11,150 (63)	10,300 (68)	11,250 (71.5)	11,850 (74.5)	12,250 (76.5)	12,500 (78.5)
35		7,350 (43.5)	7,950 (50)	7,540 (58.5)	6,980 (64)	8,020 (68.5)	8,730 (71.5)	9,230 (74)	9,580 (76.5)
40		4,420 (34.5)	4,940 (43)	4,460 (53.5)	4,430 (60)	5,570 (65)	6,350 (69)	6,910 (72)	7,320 (74)
45		2,240 (21.5)	2,690 (35)	2,150 (48.5)	2,160 (56)	3,290 (61.5)	4,410 (66)	5,080 (69)	5,530 (72)
50						1,500 (58.5)	2,590 (63)	3,600 (66.5)	4,080 (69.5)
60									1,880 (65)
0.1A (lbs.)	1,270	1,340	1,310	1,330	1,350	1,230	1,140	1,070	1,010
	in. boom angle (deg.) or indicated length (no load)			44	53	56	59	62	62
Max. boom l		(no load)							55

NOTE: () Boom angles are in degrees.

*This capacity is based upon maximum boom angle.

Boom Angle	35	55
0 °	14,950 (28.2)	1,390 (47.4)

at 0 degree boom angle (no load)

NOTE: () Reference radii in feet.

A6-829-014851A

T1 T2 T3 T4	%								
T1	0	50	50	75	100	100	100	100	100
T2	0	25	50	75	100	100	100	100	100
Т3	0	0	0	0	0	25	50	75	100
T4	0	0	0	0	0	25	50	75	100



35 - 138 ft. (10.6 - 42.0 m)



0 lbs. (0 kg)





						(Pounds)				
(Feet)	35	55	61	74	87	99	112	125	138	
10	122,000 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)						
12	104,500 (62)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)					
15	85,800 (56)	79,100 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)				
20	63,400 (44.5)	62,150 (64.5)	59,850 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	*30,050 (80)	*20,150 (80)		
25	46,000 (29.5)	44,900 (58)	45,200 (62)	38,750 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (77)	20,150 (79)	*19,000 (80)	
30		34,100 (51)	34,400 (56.5)	34,150 (63)	29,200 (68)	30,200 (71.5)	27,350 (74.5)	19,100 (76.5)	18,300 (78.5)	
35		26,750 (43.5)	27,000 (50)	26,800 (58.5)	25,800 (64)	26,600 (68.5)	24,300 (71.5)	18,100 (74)	17,650 (76.5)	
40		21,350 (34.5)	21,650 (43)	21,450 (53.5)	21,300 (60)	22,600 (65)	21,600 (69)	17,250 (72)	17,000 (74)	
45		16,200 (21.5)	16,750 (35)	16,100 (48.5)	16,150 (56)	17,400 (61.5)	18,700 (66)	16,450 (69)	16,350 (72)	
50			12,900 (24.5)	12,200 (42.5)	12,250 (52)	13,500 (58.5)	14,750 (63)	15,750 (66.5)	15,700 (69.5)	
60				6,830 (28)	6,950 (42.5)	8,140 (51)	9,360 (57)	10,550 (61.5)	11,800 (65)	
70					3,450 (30)	4,620 (42.5)	5,810 (50)	7,020 (56)	8,230 (60)	
80						2,080 (32)	3,310 (42.5)	4,490 (49.5)	5,690 (55)	
90							1,400 (33.5)	2,610 (43)	3,790 (49.5)	
100								1,160 (35)	2,330 (43)	
110									1,170 (36)	
Min. b	oom angle (deç	g.) for indicate	d length (no lo	oad)	22	27	31	33	34	
Max. b	ooom length (ft.) at 0 degree k	ooom angle (n	o load)					74	
	: () Boom angle capacity is base	_		gle.						
Boom Angle	35	55	61	74						
0 °	27,400 (28.2)	12,850 (47.4)	10,400 (53.8)	4,370 (66.6)						

NOTE: () Reference radii in feet.

A6-829-014848A



Т1	0	50	50	75	100	100	100	100	100
Т2	0	25	50	75	100	100	100	100	100
Т3	0	0	0	0	0	25	50	75	100
T4	0	0	0	0	0	25	50	75	100



35 - 138 ft. (10.6 - 42.0 m)



0 lbs. (0 kg)



360

						(Pounds)			
(Feet)	35	55	61	74	87	99	112	125	138
10	112,500 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	99,350 (62)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	84,050 (56)	73,500 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	50,150 (44.5)	44,350 (64.5)	43,550 (67.5)	40,400 (71.5)	37,800 (75)	32,100 (77.5)	*30,050 (80)	*20,150 (80)	
25	30,950 (29.5)	29,150 (58)	29,650 (62)	27,650 (67.5)	26,000 (71.5)	26,550 (74.5)	26,750 (77)	20,150 (79)	*19,000 (80)
30		19,250 (51)	20,050 (56.5)	19,700 (63)	18,650 (68)	19,500 (71.5)	19,950 (74.5)	19,100 (76.5)	18,300 (78.5)
35		13,100 (43.5)	13,800 (50)	13,300 (58.5)	13,200 (64)	14,450 (68.5)	15,250 (71.5)	15,700 (74)	15,950 (76.5)
40		8,950 (34.5)	9,520 (43)	8,990 (53.5)	8,960 (60)	10,150 (65)	11,300 (69)	12,300 (72)	12,650 (74)
45		5,930 (21.5)	6,420 (35)	5,840 (48.5)	5,850 (56)	7,030 (61.5)	8,200 (66)	9,380 (69)	10,100 (72)
50			4,070 (24.5)	3,450 (42.5)	3,490 (52)	4,660 (58.5)	5,820 (63)	6,980 (66.5)	8,130 (69.5)
60						1,310 (51)	2,450 (57)	3,590 (61.5)	4,730 (65)
70								1,310 (56)	2,440 (60)
0.1A (lbs.)	1,270	1,340	1,310	1,330	1,350	1,230	1,140	1,070	1,010
Min. boom a	ngle (deg.) fo	or indicated len	gth (no load)	30	43	48	51	54	56
Max. boom I	ength (ft.) at	0 degree boom	angle						61

NOTE: () Boom angles are in degrees.

*This capacity is based upon maximum boom angle.

Boom Angle	35	55	61
0 °	23,900	4,780	2,660
	(28.2)	(47.4)	(53.8)

NOTE: () Reference radii in feet.

A6-829-014850A

T1 T2 T3 T4	%								
T1	0	50	50	75	100	100	100	100	100
Т2	0	25	50	75	100	100	100	100	100
Т3	0	0	0	0	0	25	50	75	100
T4	0	0	0	0	0	25	50	75	100



35 - 138 ft. (10.6 - 42.0 m)



0 lbs. (0 kg)



						(Pounds)			
(Feet)	35	55	61	74	87	99	112	125	138
10	66,900 (65.5)	54,600 (76)	52,500 (77.5)	*47,100 (80)					
12	49,950 (62)	41,500 (73.5)	40,300 (75.5)	36,500 (78.5)	*33,350 (80)				
15	34,950 (56)	29,300 (70)	28,700 (72.5)	26,200 (76)	24,100 (78.5)	*24,300 (80)			
20	21,300 (44.5)	17,800 (64.5)	17,700 (67.5)	16,100 (71.5)	14,800 (75)	15,550 (77.5)	*15,900 (80)	*16,050 (80)	
25	13,050 (29.5)	11,250 (58)	11,300 (62)	10,150 (67.5)	9,250 (71.5)	10,200 (74.5)	10,800 (77)	11,200 (79)	*11,400 (80)
30		6,630 (51)	7,190 (56.5)	6,260 (63)	5,540 (68)	6,600 (71.5)	7,330 (74.5)	7,840 (76.5)	8,190 (78.5)
35		3,330 (43.5)	3,930 (50)	3,480 (58.5)	2,880 (64)	4,010 (68.5)	4,810 (71.5)	5,390 (74)	5,810 (76.5)
40			1,500 (43)	1,020 (53.5)		2,060 (65)	2,890 (69)	3,520 (72)	3,980 (74)
45							1,390 (66)	2,040 (69)	2,540 (72)
50									1,380 (69.5)
0.1A (lbs.)	1,270	1,340	1,310	1,330	1,350	1,230	1,140	1,070	1,010
Min. boom an for indicated	gle (deg.) length (no load)	36	41	52	61	62	64	67	67
Max. boom le at 0 degree b	ngth (ft.) oom angle (no l	oad)							35

NOTE: () Boom angles are in degrees.

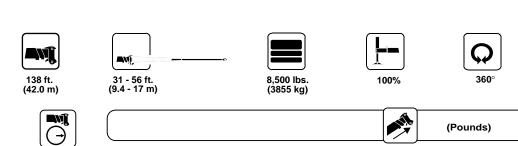
^{*}This capacity is based upon maximum boom angle.

Boom Angle	35
0°	9,750 (28.2)

NOTE: () Reference radii in feet.

A6-829-014896A

	T1 T2 T3 T4	%									
	T1	0	50	50	75	100	100	100	100	100	
	T2	0	25	50	75	100	100	100	100	100	
	тз	0	0	0	0	0	25	50	75	100	
Ī	Т4	0	0	0	0	0	25	50	75	100	



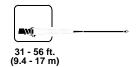
	31 FT.	LENGTH	56 FT. I	ENGTH
(Feet)	1.5° OFFSET	45° OFFSET	1.5° OFFSET	45° OFFSET
35	9,500 (79.5)			
40	9,500 (78)		*5,500 (80)	
45	9,500 (76.5)		5,400 (79.5)	
50	9,500 (75)	*7,800 (80)	5,300 (78)	
60	9,110 (71.5)	6,740 (77)	5,100 (75.5)	
70	8,450 (68.5)	6,460 (73.5)	4,900 (72.5)	*3,600 (80)
80	7,550 (64.5)	6,350 (69.5)	4,700 (69.5)	3,500 (77.5)
90	6,990 (60.5)	6,280 (65.5)	4,500 (66.5)	3,400 (74)
100	5,480 (56.5)	6,220 (61)	4,300 (63.5)	3,300 (70.5)
110	3,980 (52)	4,710 (56.5)	4,100 (59.5)	3,200 (67)
120	2,750 (47)	3,320 (51)	3,650 (56)	3,100 (63)
130	1,740 (41.5)		2,690 (52)	3,000 (58.5)
140			1,870 (47.5)	2,540 (53.5)
150			1,130 (42.5)	
Minimum boom ar for indicated lengt	ngle (deg.) h (no load)	45	42	47
Maximum boom le 0 degree boom ang		87		74

NOTE: () Boom angles are in degrees.

A6-829-014897

^{*}This capacity is based upon maximum boom angle.















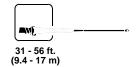
	31 F	T. LENGTH	56 FT.	LENGTH	
(Feet)	1.5° OFFSET	45° OFFSET	1.5° OFFSET	45° OFFSET	
35	9,500 (79.5)				
40	9,500 (78)		*5,500 (80)		
45	9,500 (76.5)		5,400 (79.5)		
50	9,500 (75)	*7,800 (80)	5,300 (78)		
60	8,220 (71.5)	6,740 (77)	5,100 (75.5)		
70	5,760 (68.5)	6,460 (73.5)	4,900 (72.5)	*3,600 (80)	
80	3,920 (64.5)	5,450 (69.5)	4,460 (69.5)	3,500 (77.5)	
90	2,480 (60.5)	3,690 (65.5)	3,030 (66.5)	3,400 (74)	
100	1,220 (56.5)	2,140 (61)	1,890 (63.5)	3,300 (70.5)	
110				2,280 (67)	
120				1,230 (63)	
0.1A (lbs.)	960	880	900	810	
Minimum boom angle (deg.) for indicated length (no load)	53	57	59	61	
Maximum boom length (ft.) at 0 degree boom angle (no load	d)	61		35	

NOTE: () Boom angles are in degrees.

*This capacity is based upon maximum boom angle.

A6-829-014901B











(Pounds)



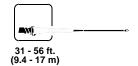


	31 FT.	LENGTH	56 FT. L	ENGTH
(Feet)	1.5° OFFSET	45° OFFSET	1.5° OFFSET	45° OFFSET
35	9,500 (79.5)			
40	9,500 (78)		*5,500 (80)	
45	9,500 (76.5)		5,400 (79.5)	
50	9,500 (75)	*7,800 (80)	5,300 (78)	
60	9,110 (71.5)	6,740 (77)	5,100 (75.5)	
70	8,450 (68.5)	6,460 (73.5)	4,900 (72.5)	*3,600 (80)
80	7,210 (64.5)	6,350 (69.5)	4,700 (69.5)	3,500 (77.5)
90	5,100 (60.5)	6,280 (65.5)	4,500 (66.5)	3,400 (74)
100	3,470 (56.5)	4,420 (61)	4,300 (63.5)	3,300 (70.5)
110	2,170 (52)	2,910 (56.5)	3,210 (59.5)	3,200 (67)
120	1,120 (47)	1,680 (51)	2,170 (56)	3,090 (63)
130			1,260 (52)	2,040 (58.5)
140				1,160 (53.5)
Minimum boom ang for indicated length		49	50	52
Maximum boom leng at 0 degree boom ar		74		61

A6-829-014899A

NOTE: () Boom angles are in degrees. *This capacity is based upon maximum boom angle.





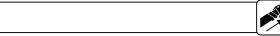






(Pounds)





	31 FT	. LENGTH	56 FT. LI	ENGTH
(Feet)	1.5° OFFSET	45° OFFSET	1.5° OFFSET	45° OFFSET
30	*11,500 (80)			
35	11,500 (78.5)			
40	11,500 (77)		6,950 (79.5)	
45	11,500 (75)	*8,000 (80)	6,780 (78.5)	
50	11,000 (73.5)	6,810 (78.5)	6,620 (77)	
60	10,050 (70)	6,490 (74.5)	6,290 (74)	
70	9,220 (66)	6,400 (70.5)	5,960 (71)	*3,700 (80)
80	8,440 (62)	6,350 (66)	5,640 (67.5)	3,520 (76.5)
90	6,900 (57.5)	6,340 (61.5)	5,260 (64.5)	3,400 (72.5)
100	5,090 (53)	5,860 (56.5)	4,980 (60.5)	3,290 (68.5)
110	3,640 (47.5)	4,180 (51)	4,630 (56.5)	3,190 (64)
120	2,450 (41.5)		3,420 (52)	3,110 (59.5)
130	1,450 (34.5)		2,360 (47.5)	3,040 (54)
140			1,460 (42.5)	
Minimum boom ang for indicated length		45	39	49
Maximum boom lengat 0 degree boom ar		87		74

NOTE: () Boom angles are in degrees.

*This capacity is based upon maximum boom angle.

A6-829-014898A















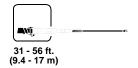
	31 FT	. LENGTH	56 FT. L	.ENGTH
(Feet)	1.5° OFFSET	45° OFFSET	1.5° OFFSET	45° OFFSET
30	*11,500 (80)			
35	11,500 (78.5)			
40	11,500 (77)		6,950 (79.5)	
45	11,500 (75)	*8,000 (80)	6,780 (78.5)	
50	11,000 (73.5)	6,810 (78.5)	6,620 (77)	
60	8,070 (70)	6,490 (74.5)	6,290 (74)	
70	5,580 (66)	6,400 (70.5)	5,960 (71)	*3,700 (80)
80	3,710 (62)	5,080 (66)	4,390 (67.5)	3,520 (76.5)
90	2,100 (57.5)	3,130 (61.5)	2,940 (64.5)	3,400 (72.5)
100		1,610 (56.5)	1,790 (60.5)	3,290 (68.5)
110				2,430 (64)
120				1,230 (59.5)
0.1A (lbs.)	990	900	910	810
Minimum boom angle (deg.) for indicated length (no load		55	57	58
Maximum boom length (ft.) at 0 degree boom angle (no	load)	61		35

NOTE: () Boom angles are in degrees.

A6-829-014902A

^{*}This capacity is based upon maximum boom angle.















	31 FT.	LENGTH	56 FT. LENGTH		
(Feet)	1.5° OFFSET	45° OFFSET	1.5° OFFSET	45° OFFSET	
30	*11,500 (80)				
35	11,500 (78.5)				
40	11,500 (77)		6,950 (79.5)		
45	11,500 (75)	*8,000 (80)	6,780 (78.5)		
50	11,000 (73.5)	6,810 (78.5)	6,620 (77)		
60	10,050 (70)	6,490 (74.5)	6,290 (74)		
70	9,220 (66)	6,400 (70.5)	5,960 (71)	*3,700 (80)	
80	6,670 (62)	6,350 (66)	5,640 (67.5)	3,520 (76.5)	
90	4,650 (57.5)	5,710 (61.5)	5,260 (64.5)	3,400 (72.5)	
100	3,080 (53)	3,860 (56.5)	4,270 (60.5)	3,290 (68.5)	
110	1,830 (47.5)	2,380 (51)	2,900 (56.5)	3,190 (64)	
120			1,790 (52)	3,110 (59.5)	
130				1,920 (54)	
Minimum boom and for indicated length	gle (deg.) ı (no load) ⁴²	46	48	51	
Maximum boom ler at 0 degree boom a		74		61	

A6-829-014900

NOTE: () Boom angles are in degrees.
*This capacity is based upon maximum boom angle.



35 - 138 ft. (10.6 - 42.0 m)



8,500 lbs. (3855 kg)



Stationary 33.25 x 29

(32 ply)



				(Pounds)	
(Feet)	35	55	61	74	87
10	45,200 (65.5)	40,850 (76)			
12	43,100 (62)	40,850 (73.5)			
15	29,400 (56)	29,400 (70)	29,400 (72.5)	29,400 (76)	
20	17,750 (44.5)	17,750 (64.5)	17,750 (67.5)	17,750 (71.5)	17,750 (75)
25	11,300 (29.5)	11,300 (58)	11,300 (62)	11,300 (67.5)	11,300 (71.5)
30		7,300 (51)	7,300 (56.5)	7,300 (63)	7,300 (68)
35		4,520 (43.5)	4,520 (50)	4,520 (58.5)	4,520 (64)
40		2,290 (34.5)	2,290 (43)	2,290 (53.5)	2,290 (60)
	oom angle (deg.) I length (no load)	31	40	50	58
	oom length (ft.) boom angle (no load)				35
NOTE: () Bo	oom angles are in degre	es.			
Boom Angle	35				
0 °	9,350 (28.2)				

NOTE: () Reference radii in feet.

A6-829-015116



35 - 138 ft. (10.6 - 42.0 m)



8,500 lbs. (3855 kg)



(32 ply)

Stationary 33.25 x 29

Defined Arc Over Front

				(Pounds)	
(Feet)	35	55	61	74	87
10	45,200 (65.5)	40,850 (76)			
12	45,200 (62)	40,850 (73.5)	40,850 (75.5)		
15	45,200 (56)	40,850 (70)	40,850 (72.5)	34,400 (76)	
20	40,850 (44.5)	40,850 (64.5)	40,850 (67.5)	34,400 (71.5)	24,050 (75)
25	27,000 (29.5)	27,100 (58)	27,100 (62)	27,100 (67.5)	24,050 (71.5)
30		19,200 (51)	19,200 (56.5)	19,200 (63)	19,200 (68)
35		14,200 (43.5)	14,200 (50)	14,200 (58.5)	14,200 (64)
40		10,550 (34.5)	10,550 (43)	10,550 (53.5)	10,550 (60)
45		7,905 (21.5)	7,905 (35)	7,905 (48.5)	7,905 (56)
50			5,840 (24.5)	5,840 (42.5)	5,840 (52)
60				2,880 (28)	2,880 (42.5)
Minimum bo	oom angle (deg.) for ir	ndicated length (no load)		40
Maximum bo	oom length (ft.) at 0 de	egree boom angle (no lo	pad)		74
NOTE: () Bo	oom angles are in deg	rees.			
Boom Angle	35	55	61	74	

1,480 (66.6) 22,000 (28.2) 6,860 (47.4) 4,570 (53.8) **0**°

NOTE: () Reference radii in feet.

A6-829-015117



35 - 138 ft. (10.6 - 42.0 m)



8,500 lbs. (3855 kg)



Pick & Carry Up to 2.5 MPH 33.25 x 29 (32 ply)



Boom Centered Over Front

				(Pounds)	
(Feet)	35	55	61	74	87
10	45,200 (65.5)	29,150 (76)			
12	45,200 (62)	29,150 (73.5)			
15	37,250 (56)	29,150 (70)	26,900 (72.5)	18,150 (76)	
20	30,600 (44.5)	29,150 (64.5)	26,900 (67.5)	18,150 (71.5)	12,400 (75)
25	20,250 (29.5)	20,250 (58)	20,250 (62)	18,150 _(67.5)_	12,400 (71.5)
30		14,400 (51)	14,400 (56.5)	14,440 (63)	12,400 (68)
35		10,650 (43.5)	10,650 (50)	10,650 (58.5)	10,650 (64)
40		7,940 (34.5)	7,940 (43)	7,940 (53.5)	7,940 (60)
45		5,920 (21.5)	5,920 (35)	5,920 (48.5)	5,920 (56)
50			4,380 (24.5)	4,380 (42.5)	4,380 (52)
60				2,160 (28)	2,160 (42.5)
Minimum	boom angle (deg.) f	or indicated length (no lo	ad)		40
Maximum	n boom length (ft.) at	0 degree boom angle (no	load)		74
NOTE: ()	Boom angles are in	degrees.			
Boom					
Angle	35	55	61	74	
0°	16,500	5,140	3,430	1,110	
•	(28.2)	(47.4)	(53.8)	(66.6)	

NOTE: () Reference radii in feet.

A6-829-015118

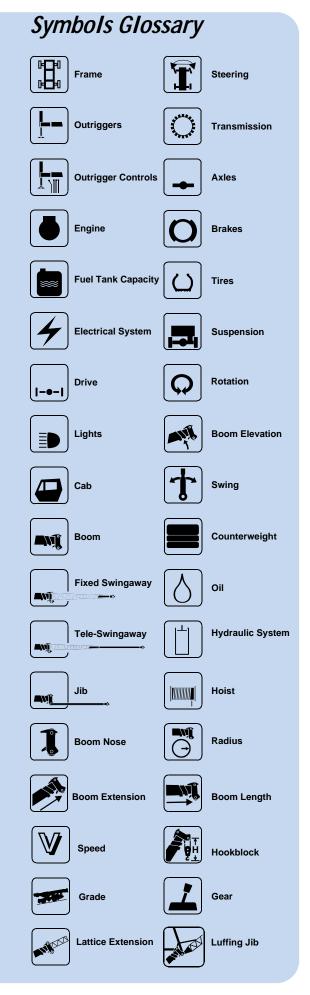
LIFTING OFF MAIN BOOM NOSE (35 FT 138 FT. BOOM) WITH:	
25 ft. Fly Section (Stowed on Boom Base Section)	440 lbs.
31 ft. Fixed Extension (Stowed on Boom Base Section)	1,110 lbs.
31 ft. Fixed Extension (Erected)	4,830 lbs.
31-56 ft. Folding Extension (Stowed on Boom Base Section)	1,550 lbs.
31-56 ft. Folding Extension (Erected)	10,700 lbs.
LIFTING OFF 31 FT. BOOM EXTENSION WITH:	
25 ft. Fly Section (Stowed on Boom Base Section)	440 lbs.
25 ft. Fly Section (Erected)	Not Permitted
25 ft. Fly Section (Stowed on 31 ft. Extension)	Not Permitted
*Reduction of main boom capacities	
AUXILIARY BOOM NOSE	127 lbs.
HOOKBLOCKS and HEADACHE BALLS:	
65 Ton, 6 Sheave w/cheekplates	1,910 lbs.+
65 Ton, 6 Sheave w/o cheekplates	1,574 lbs.+
45 Ton, 3 Sheave w/cheekplates	977 lbs.+
45 Ton, 3 Sheave w/o cheekplates	830 lbs. +
15 Ton, 1 Sheave	420 lbs. +
10 Ton Headache Ball	560 lbs.+

Rated lifting capacities

IMPORTANT NOTES:

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

- 1. All rated loads have been tested to and meet minimum requirements of SAE J1063 NOV93-Cantilevered Boom Crane Structures Method of Test, and do not exceed 85% of the tipping load on outriggers fully extended and SAE J1289 APR81-Mobile Crane Stability Ratings [1.25P< (T-0.1A)] on outriggers 50% and 0% extended, (fully retracted), and 75% of the tipping load on rubber as determined by SAE J765 OCT90 Crane Stability Test Code.
- 2. Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights must be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
- 3. Defined Arc ±6° on either side of longitudinal centerline of machine.
- 4. Capacities appearing above the bold line are based on structural strength. Tipping should never be used to determine capacity limitation.
- 5. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
- 6. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
- 7. Tires shall be inflated to the recommended pressure before lifting on rubber.
- 8. For outrigger operation, ALL outriggers shall be properly extended with tires raised free of ground before raising the boom or lifting loads.

















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