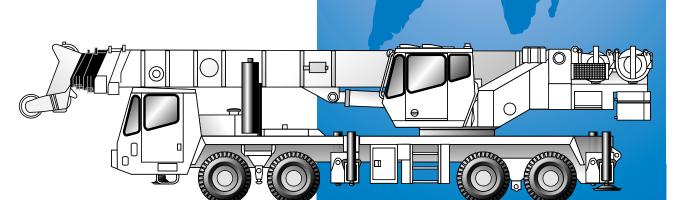
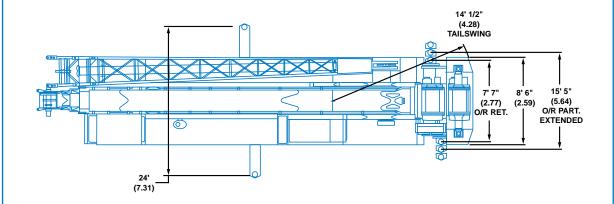


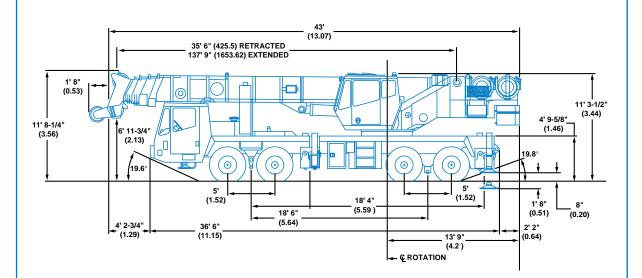
TMS870 TTS870



Truck Mounted Hydraulic Cranes

Dimensions





Turning Radius: TMS870 - 45' 1" (13.7 m)

TTS870 - 29' 8" (9.04 m) (8 wheel)

Curb Clearance: TMS870 45' 9-9/16" (13.9 m)

TTS870 29' 8" (9.04 m)

Note: () Reference in meters.

Working Range











(10.9 - 33.5 m)

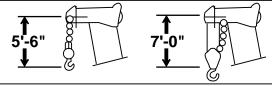
31 - 56 ft.

(9.4 - 17 m)

(3856 kg)

8,500 lbs

FEET 1.5° 70° 60° 50° 40° 30° ° ° 10° **MAX BOOM ANGLE FEET AXIS OF ROTATION**



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

Superstructure specifications

Boom (Standard)

36 ft. - 110 ft. (10.9 m - 33.5 m) four section full power boom. Equipped with remote greasing lines for upper wear pad area. Maximum Tip Height: 118 ft. (35.9 m).

Folding Lattice Extension - 110 ft. (33.5 m) Boom

31 ft. or 56 ft. (9.4 m or 17 m) folding lattice swingaway extension offsettable at 1.5°, 25° or 45°. Stows alongside base boom section.

Maximum Tip Height: 172 ft. (52.4 m).

*Optional Lattice Extension - 110 ft. (33.5 m) Boom

31 ft. (9.4 m) lattice swingaway extension, offsettable at 1.5° , 25° or 45° . Stows alongside base boom section. Maximum Tip Height: 149 ft. (45.4 m).

*Boom (Optional)

35 ft. - 138 ft. (10.8 m - 42 m) five section full power boom. Equipped with remote greasing lines for upper wear pad area. Maximum Tip Height: 147 ft. (44.8 m).

*Folding Lattice Extension - 138 ft. (42 m) Boom

31 ft. or 56 ft. (9.4 m or 17 m) folding lattice swingaway extension offsettable at 1.5°, 25° or 45°. Stows alongside the boom base section.

Maximum Tip Height: 202 ft. (61.5 m).

*Optional Lattice Extension - 138 ft. (42 m) Boom

31 ft. (9.4 m) lattice swingaway extension offsettable at 1.5°, 25° or 45°. Stows alongside boom base section. Maximum Tip Height: 177 ft. (10.8 m).

Boom Nose

Five nylatron, permanently lubricated sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeving type boom nose. 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 80°.

Load Moment & Anti-Two Block System

Standard load moment and anti-two block system with audiovisual 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

High visibility, all steel cab with acoustical lining and tinted safety glass throughout. Deluxe seat with armrest mounted hydraulic single axis controls. Dash panel incorporates gauges for all engine functions. Other standard features include: sliding side and rear windows, hot water heat, electric windshield wash/wipe, circulating air fan, sliding skylight with sunscreen and electric skylight wiper, fire extinguisher, cup holder.

Swing

Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released parking brake and plunger type, mechanical house lock operated from cab.

Maximum speed: 2.0 RPM.

Counterweight

8,500 lbs. (3856 kg) total consisting of (1) 5,500 lbs. (2495 kg) section and (1) 3,000 lbs. (1361 kg) section. Hydraulic installation/removal. Optional 9,500 lbs. (4309 kg) to be used in conjunction with standard counterweight to provide 12,500 lbs. (5670 kg) or 18,000 lbs. (8165 kg) total counterweight.

Hydraulic System

Four main gear pumps with a combined capacity of 160 GPM (730.5 lpm).

Three individual valve banks.

Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with beta rating of 5/12/16.

170 gallons (643 L) reservoir.

Remote mounted oil cooler with thermostatically controlled hydraulic motor driven fan.

Hoist specifications Main and Auxiliary Hoists Model HO3OG-26G

Planetary reduction with integral automatic brake, electronic hoist drum rotation indicator, and hoist drum cable follower. Grooved drum

Maximum Permissible Line Pull:	12,920 lbs.
	(5860 kg)
Rope Diameter:	3/4 in.
	(19 mm)
Rope Length:	620 ft.
	(189 m)
Maximum Rope Stowage:	1,163 ft.
	(354 m)

		High Range	Low Range
Maximum single line speed	Layer 1	372 fpm 113m/m	191 fpm 58 m/m
	Layer 2	405 fpm 123 m/m	208 fpm 63 m/m
	Layer 3	438 fpm 134 m/m	225 fpm 69 m/m
	Layer 4	471 fpm 144 m/m	242 fpm 74 m/m
	Layer 5	504 fpm 154 m/m	258 fpm 79 m/m
Maximum single line pull	Layer 1	8,933 lbs. (4051 kg)	17,866 lbs. (8103 kg)
	Layer 2	8,210 lbs. (3723 kg)	16,421 lbs. (7447 kg)
	Layer 3	7,596 lbs. (3449 kg)	15,192 lbs. (6890 kg)
	Layer 4	7,067 lbs. (3205 kg)	14,135 lbs. (6410 kg)
	Layer 5	6,607 lbs. (2996 kg)	13,215 lbs. (5993 kg)

^{*}Denotes optional equipment

TMS/TTS carrier specifications

TMS/TTS Chassis

Triple box section, four-axle carrier fabricated from high-strength, low alloy steel with towing and tie-down lugs.

TMS/TTS Outrigger System

Four hydraulic telescoping, two-stage, double box beam outriggers with inverted jack and integral holding valves. Quick release type outrigger floats 24 in. (610 mm) diameter. Three position setting with fully extended, intermediate (50%) extended and fully retracted capacities.

TMS/TTS Outrigger Controls

Located in the superstructure cab on left side (umbilical design) and on either side of carrier with lighted box. Require two hand operation. Crane level indicator (sight bubble) on right side console.

TMS Engine

Cummins MII 400E diesel, six cylinders, turbo-charged and after cooled, 661 cu. in. (10.8 L), 400 bhp (298 kW) (gross) @ 1800 RPM. Maximum torque: 1,350 ft. lbs. (1830 Nm) @ 1500 RPM. Equipped with engine brake and audio-visual engine distress system.

TTS Engine

Cummins MII 400E Plus diesel, six cylinders, turbo-charged and after cooled, 661 cu. in. (10.8 L), 400 bhp (298 kW) (gross) @ 1800 RPM. Maximum torque 1,450 ft. lbs. (1966 Nm) @ 1200 RPM. Equipped with engine brake and audio-visual engine distress system.

*Optional TMS/TTS Engine

Caterpillar C-12 diesel, six-cylinders, turbo-charged and air-to-air aftercooled, 732 cu. in. (12.0 L), 405 bhp (302 kW) (gross) @ 1800 RPM. Maximum torque: 1,450 ft. lbs. (1966 Nm) @ 1200 RPM. Equipped with engine brake and audio-visual engine distress system.

TMS/TTS Fuel Tank Capacity

(1) 100 gallons (376 L)

TMS Transmission

Roadranger 10 speeds forward, 3 reverse.

TTS Transmission

Roadranger 13 speeds forward, 2 reverse.

TMS Drive

8 x 4 x 4.

TTS Drive

8 x 4 x 8.

TMS Steering

Front axle, single circuit, mechanical steering with hydraulic power assist.

TTS Steering

Front axle, single circuit, mechanical steering with hydraulic power assist. Rear steering controls located in the carrier cab.

TMS Axles

Front: (2) Eaton beam-type steering axles, 84 in. (2.13 m) track. Rear: (2) Eaton single reduction drive axles, 74.46 in. (1.89 m) track. Inter-axle differential locks.

TTS Axles

Front: (2) Eaton beam-type steering axles, 84 in. (2.13 m) track. Rear: (2) Kessler single reduction drive axles, 83.38 in.

(2.11 m) track. Inter-axle differential locks.

TMS Brakes

S-cam, dual air split system operating on all wheels. Spring-applied, air released parking brake acting on rear axles. Air dryer.

TTS Brakes

Dual air, split-system operating on all wheels. S-cam brakes on the front and wedge brakes on the rear. Spring-applied, air released parking brake acting on rear axles. Air dryer.

TMS/TTS Suspension

Front: Spring mounted tandem

Rear: Solid mounted tandem with equalizing beam

and solid steel saddles.

TMS Tires

Front: 445/65R 22.5 Goodyear G286, tubeless, mounted

on aluminum disc wheels.

Rear: 315/80R 22.5 Goodyear G286, tubeless, mounted

on aluminum disc wheels.

TTS Tires

Front/Rear: 445/65R 22.5 Goodyear G286, tubeless,

mounted on aluminum disc wheels.

TMS *Optional Tires

Front: 445/65R 22.5 Bridgestone M844F, tubeless. 445/65R 22.5 Michelin XZY (WB), tubeless. Rear: 315/80R 22.5 Bridgestone M843, tubeless. 315/80R 22.5 Michelin XZY-1 tubeless.

TTS *Optional Tires

Front/Rear: 445/65R 22.5 Bridgestone M844F, tubeless. 445/65R 22.5 Michelin XZY (WB), tubeless.

TMS/TTS Lights

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

TMS/TTS Cab

One man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered, fully adjustable air ride seat. Complete driving controls and engine instrumentation including tilt telescope steering wheel, tachometer, speedometer, voltmeter, water temp., oil pressure, fuel level, air pressure gauge with A/V warning and engine high temp./low oil pressure A/V warning. Other standard items include hot water heater/defroster, electric windshield wash/wipe, fire extinguisher, seat belt, door lock and electric window.

TMS/TTS Electrical System

Two 12 V - maintenance free batteries. 12 V carrier driving lights, remaining systems 24 V. Battery disconnect standard equipment.

TMS/TTS Maximum Speed

55 MPH (88 kph)

TMS/TTS Gradeability (Theoretical)

71%

TMS Gross Vehicle Weight

BASIC STANDARD MACHINE. 91,090 lbs. (41 318 kg), minus block and ball.

TTS Gross Vehicle Weight

BASIC STANDARD MACHINE.

91,606 lbs. (41 552 kg), minus block and ball.

TMS/TTS Miscellaneous Standard Equipment

Aluminum fenders with rear storage compartments (TMS only); dual rear view mirrors; electronic back-up alarm; sling/tool box; pump disconnect; tire inflation kit; air cleaner restriction indicator; block and ball stowage; and chrome package which includes aluminum wheels

TMS/TTS Optional Equipment

- * 360° rotating beacon
- * Cab spotlight
- * Engine block heater
- * Hookblocks
- * Tool kit
- * Trailing boom package
- * Aluminum outrigger pads

*Denotes optional equipment

Weight Reductions for Load Handling Devices

4 Section Boom 31 ft. - 56 ft. (9.4 m - 17 m) Folding Boom Extension

*31 ft. (9.4 m) extension (erected)	4,048 lbs.	(1836 kg)
*56 ft. (17 m) extension (erected)	8,963 lbs.	(4066 kg)

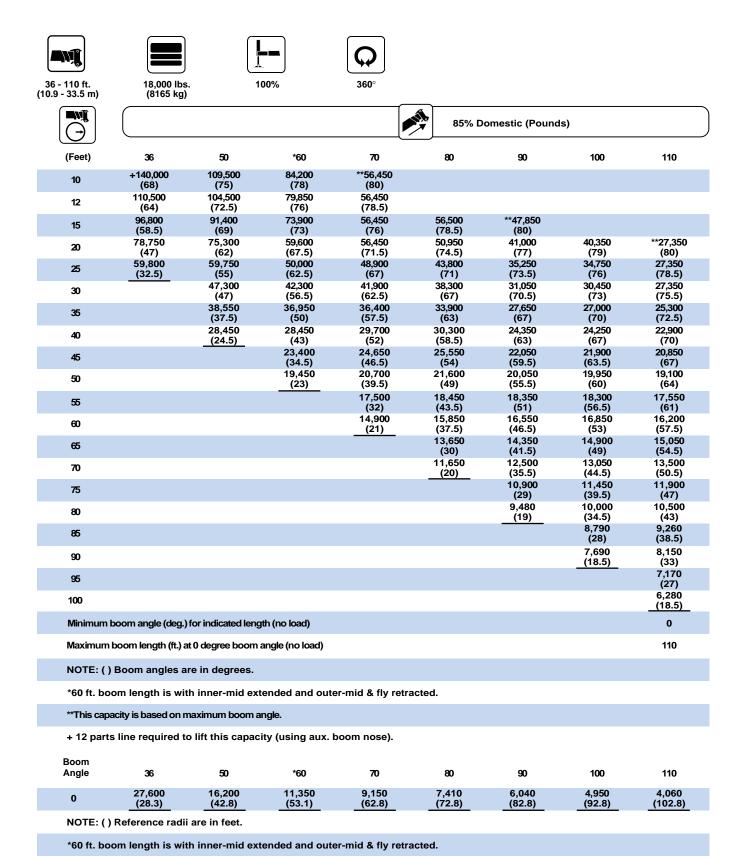
^{*}Reduction of main boom capacities:

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.

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.

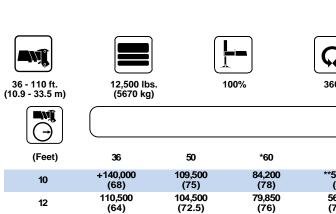
Auxiliary Boom Nose	116 lbs.	(53 kg)
+ 70 ton, 6 sheave hookblock w/o cheekplates	1,674 lbs.	(759 kg)
+ 70 ton, 6 sheave hookblock w/cheekplates	2,010 lbs.	(912 kg)
+ 45 ton, 3 sheave hookblock w/o cheekplates	876 lbs.	(397 kg)
+ 45 ton, 3 sheave hookblock w/cheekplates	1,066 lbs.	(484 kg)
+ 15 ton, 1 sheave hookblock	380 lbs.	(173 kg)
+ 10 ton headache ball	560 lbs.	(254 kg)

+ Refer to rating plate for actual weight.



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7



(Feet)	36	50	*60	70	80	90	100	110
10	+140,000 (68)	109,500 (75)	84,200 (78)	**56,450 (80)				
12	110,500 (64)	104,500 (72.5)	79,850 (76)	56,450 (78.5)				
15	96,800 (58.5)	91,400 (69)	73,900 (73)	56,450 (76)	56,500 (78.5)	**47,850 (80)		
20	72,000 (47)	71,850 (62)	59,600 (67.5)	56,450 (71.5)	50,950 (74.5)	41,000 (77)	40,350 (79)	**27,350 (80)
25	54,450 (32.5)	54,350 (55)	50,000 (62.5)	48,900 (67)	43,800 (71)	35,250 (73.5)	34,750 (76)	27,350 (78.5)
30		42,900 (47)	42,300 (56.5)	41,900 (62.5)	38,300 (67)	31,050 (70.5)	30,450 (73)	27,350 (75.5)
35		34,750 (37.5)	34,750 (50)	35,850 (57.5)	33,900 (63)	27,650 (67)	27,000 (70)	25,300 (72.5)
40		27,050 (24.5)	27,750 (43)	28,600 (52)	29,600 (58.5)	24,350 (63)	24,250 (67)	22,900 (70)
45			22,150 (34.5)	23,000 (46.5)	23,950 (54)	22,050 (59.5)	21,900 (63.5)	20,850 (67)
50			17,900 (23)	18,850 (39.5)	19,750 (49)	20,050 (55.5)	19,950 (60)	19,100 (64)
55				15,600 (32)	16,500 (43.5)	17,400 (51)	17,850 (56.5)	17,550 (61)
60				12,900 (21)	13,850 (37.5)	14,800 (46.5)	15,250 (53)	15,700 (57.5)
65					11,700 (30)	12,650 (41.5)	13,100 (49)	13,550 (54.5)
70					9,890 (20)	10,850 (35.5)	11,300 (44.5)	11,800 (50.5)
7 5						9,320 (29)	9,820 (39.5)	10,250 (47)
80						7,980 (19)	8,520 (34.5)	8,980 (43)
85							7,370 (28)	7,860 (38.5)
90							6,360 (18.5)	6,880 (33)
95								6,020 (27)
100								5,230 (18.5)
Minimum k	oom angle (deg.)	for indicated leng	th (no load)					0
Maximum I	boom length (ft.) a	t 0 degree boom a	angle (no load)					110
NOTE: ()	Boom angles a	re in degrees.						
*60 ft. boo	om length is wit	h inner-mid ext	ended and oute	er-mid & fly retra	cted.			
**This capa	acity is based on n	naximum boom a	ngle.					
+ 12 parts	s line required to	o lift this capac	ity (using aux. b	ooom nose).				
Boom	20	E0	***	70	00	00	400	440
Angle	36	50	*60	70	80	90	100	110

85% Domestic (Pounds)

(28.3) NOTE: () Reference radii are in feet.

27,600

0

*60 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

11,350

(53.1)

16,200

(42.8)

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4,060

(102.8)

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.

9,150

(62.8)

7,410

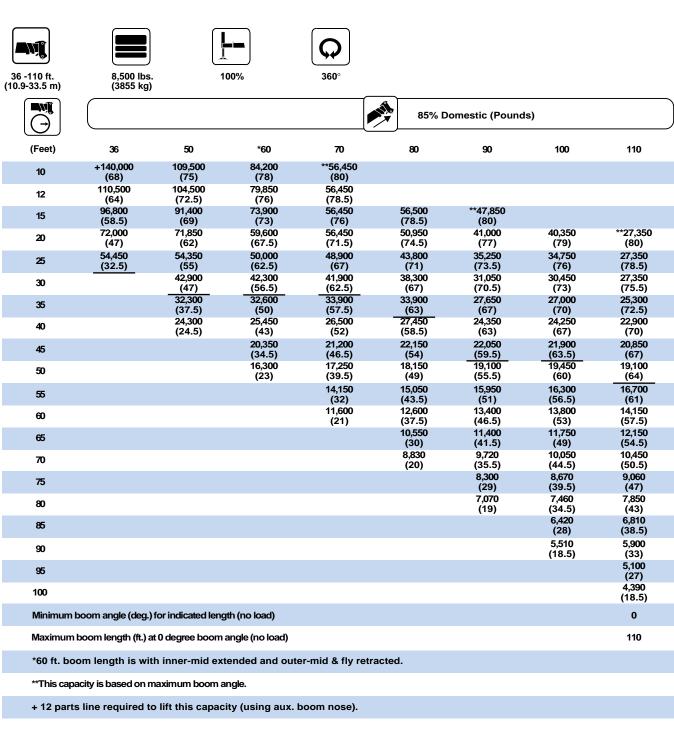
(72.8)

6,040

(82.8)

4,950

(92.8)

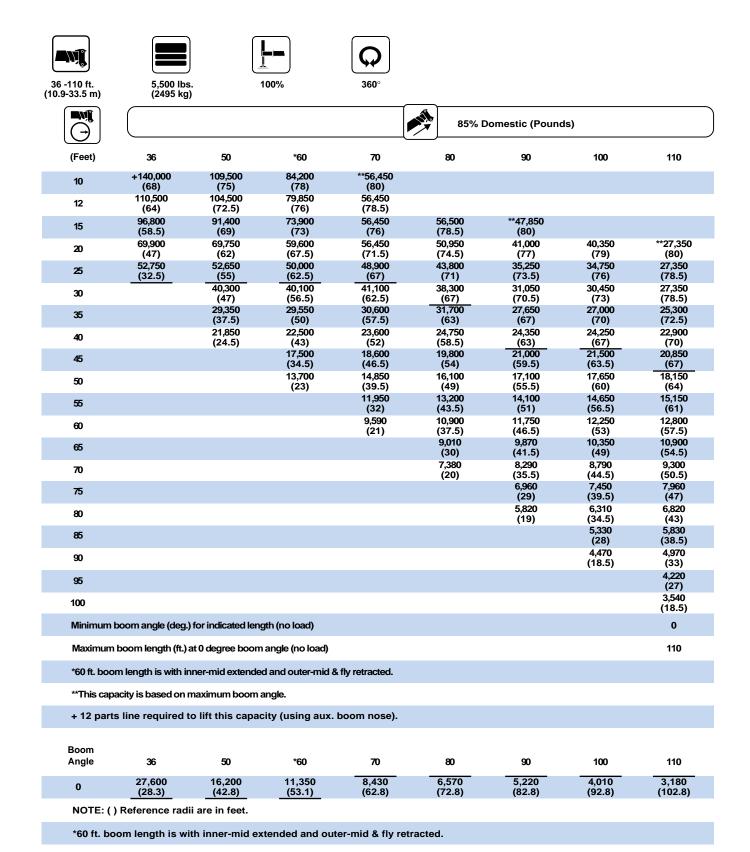


Boom Angle	36	50	*60	70	80	90	100	110
0	27,600	16,200	11,350	9,150	7,410	6,040	4,950	4,010
	(28.3)	(42.8)	(53.1)	(62.8)	(72.8)	(82.8)	(92.8)	(102.8)

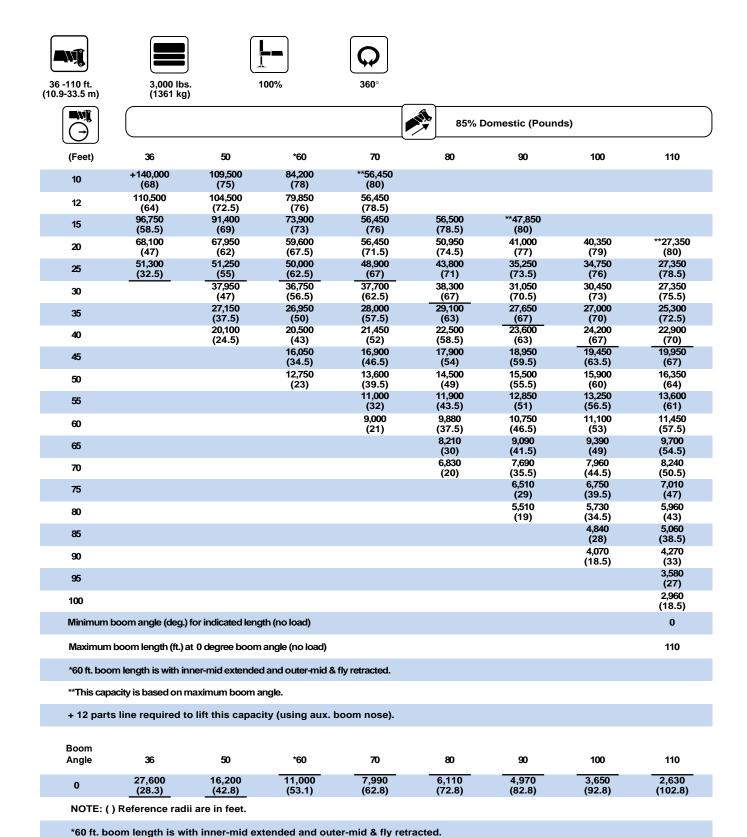
 $^{*}60$ ft. boom length is with inner-mid extended and outer-mid & fly retracted.

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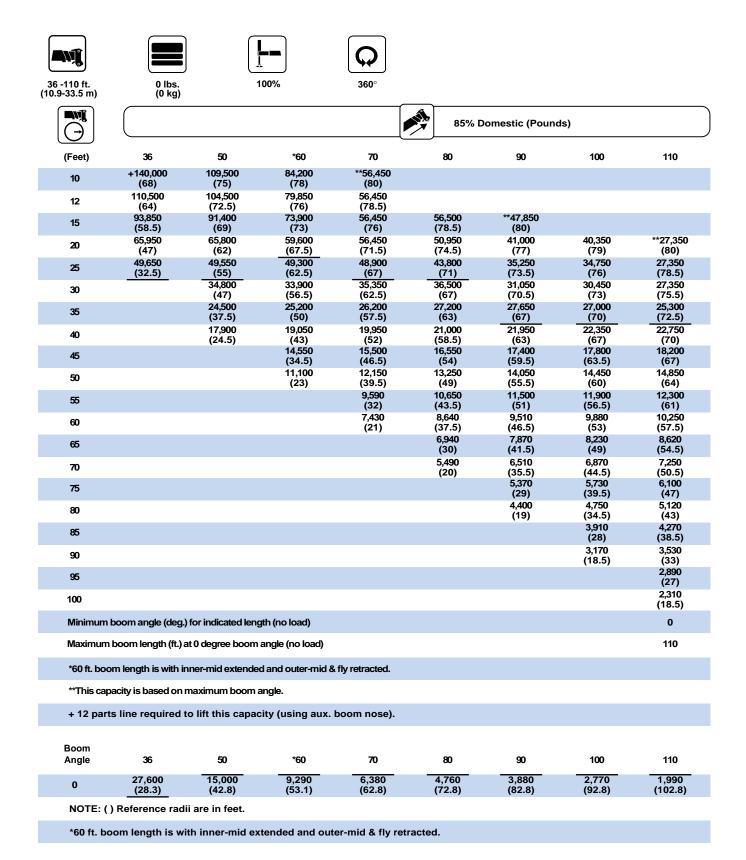
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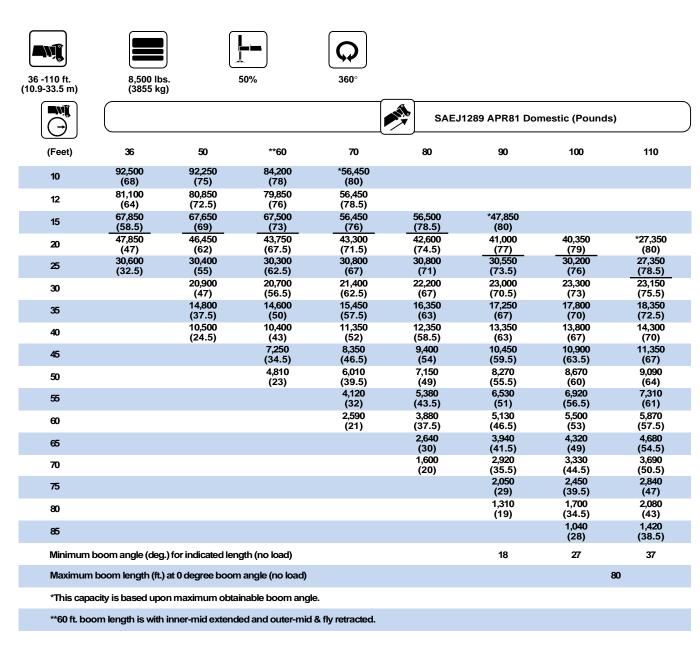
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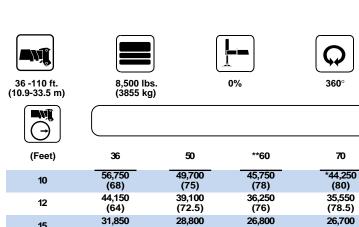
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Boom Angle	36	50	**60	70	80
0	23,450	8,610	3,530	1,850	1,090
	(28.3)	(42.8)	(53.1)	(62.8)	(72.8)

A6-829-014188A

^{**60} ft. boom length is with inner-mid extended and outer-mid & fly retracted.



(Feet)	36	50	**60	70	80	90	100	110
10	56,750 (68)	49,700 (75)	45,750 (78)	*44,250 (80)				
12	44,150 (64)	39,100 (72.5)	36,250 (76)	35,550 (78.5)				
15	31,850 (58.5)	28,800 (69)	26,800 (73)	26,700 (76)	26,350 (78.5)	*25,900 (80)		
20	19,150 (47)	18,500 (62)	17,350 (67.5)	17,700 (71.5)	17,850 (74.5)	17,800 (77)	17,650 (79)	*17,450 (80)
25	11,750 (32.5)	11,600 (55)	11,400 (62.5)	12,250 (67)	12,600 (71)	12,750 (73.5)	12,800 (76)	12,800 (78.5)
30		7,060 (47)	7,000 (56.5)	7,870 (62.5)	8,750 (67)	9,330 (70.5)	9,490 (73)	9,570 (75.5)
35		3,950 (37.5)	3,890 (50)	4,850 (57.5)	5,710 (63)	6,580 (67)	6,940 (70)	7,200 (72.5)
40		1,690 (24.5)	1,650 (43)	2,570 (52)	3,510 (58.5)	4,360 (63)	4,780 (67)	5,210 (70)
45					1,770 (54)	2,680 (59.5)	3,140 (63.5)	3,620 (67)
50						1,300 (55.5)	1,860 (60)	2,370 (64)
55								1,360 (61)
Minimu for indic	m boom angle (de cated length (no le	eg.) pad) 23	38	47	51	54	57	59
	m boom length (f boom angle (no k				36			

SAEJ1289 APR81 Domestic (Pounds)

^{**60} ft. boom length is with inner-mid extended and outer-mid & fly retracted.

Boom Angle	36
0	8,390 (28.3)

NOTE: () Reference radii are in feet.

A6-829-014192A

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

^{**60} ft. boom length is with inner-mid extended and outer-mid & fly retracted.











				85% Domes	tic (Pounds)	
	31 FT.	LENGTH (SWINGAWAY	BASE)	 56 FT. LENG	TH (SWINGAWAY BA	SE & FLY)
(Feet)	1.5°	25°	45 °	1.5°	25°	45 °
25	*12,900 (80)					
30	12,900 (78.5)					
35	12,900 (76.5)	8,340 (79.5)		8,220 (79.5)		
40	12,750 (74.5)	8,020 (77.5)	*6,370 (80)	8,220 (78)		
45	12,350 (72.5)	7,730 (76)	6,300 (79)	8,220 (76.5)		
50	11,500 (70.5)	7,390 (74)	6,250 (77)	8,220 (75)	*4,780 (80)	
55	10,950 (68.5)	7,130 (72)	6,190 (74.5)	8,220 (74)	4,640 (79.5)	
60	10,400 (66.5)	6,870 (69.5)	6,120 (72)	8,220 (72)	4,490 (78)	
65	9,960 (64)	6,660 (67.5)	6,090 (69.5)	8,220 (70)	4,340 (76)	*3,770 (80)
70	9,480 (61.5)	6,450 (65)	6,050 (67)	8,080 (68)	4,190 (74)	3,740 (78)
75	9,060 (59)	6,280 (62.5)	6,050 (64.5)	7,650 (66)	4,070 (72)	3,720 (76)
80	8,630 (56.5)	6,110 (60)	6,050 (62)	7,220 (64)	3,940 (70)	3,700 (73.5)
85	8,270 (54)	5,970 (57.5)	6,050 (59)	6,870 (62)	3,830 (67.5)	3,700 (71.5)
90	7,900 (51)	5,840 (54.5)	6,050 (56)	6,530 (60)	3,730 (65.5)	3,700 (69)
95	7,580 (48.5)	5,740 (51.5)		6,130 (58)	3,640 (63.5)	3,700 (66.5)
100	7,060 (45.5)	5,650 (48.5)		5,730 (55.5)	3,550 (61)	3,700 (64)
110	5,600 (38.5)	5,510 (41.5)		5,060 (51)	3,420 (56)	3,480 (59)
120	4,400 (30.5)			4,510 (46)	3,320 (51)	-
130	3,400 (18.5)			4,050 (40)	3,280 (45)	
140				3,190 (33.5)	2,320 (37.5)	
150				2,460 (24.5)		
Minimum boom angle (deg.) for indicated length	2	25	45	2	25	45
Maximum boom length (ft.) at 0 deg. boom angle		110			110	

*This capacity is based on maximum boom angle.











				85% Domest	tic (Pounds)	
	31 FT.	LENGTH (SWINGAWAY	BASE)	 56 FT. LENG	TH (SWINGAWAY BA	SE & FLY)
(Feet)	1.5°	25 °	45 °	1.5°	25 °	45 °
25	*12,900 (80)					
30	12,900 (78.5)					
35	12,900 (76.5)	8,340 (79.5)		8,220 (79.5)		
40	12,750 (74.5)	8,020 (77.5)	*6,370 (80)	8,220 (78)		
45	12,350 (72.5)	7,730 (76)	6,300 (79)	8,220 (76.5)		
50	11,500 (70.5)	7,390 (74)	6,250 (77)	8,220 (75)	*4,780 (80)	
55	10,950 (68.5)	7,130 (72)	6,190 (74.5)	8,220 (74)	4,640 (79.5)	
60	10,400 (66.5)	6,870 (69.5)	6,120 (72)	8,220 (72)	4,490 (78)	
65	9,960 (64)	6,660 (67.5)	6,090 (69.5)	8,220 (70)	4,340 (76)	*3,770 (80)
70	9,480 (61.5)	6,450 (65)	6,050 (67)	8,080 (68)	4,190 (74)	3,740 (78)
75	9,060 (59)	6,280 (62.5)	6,050 (64.5)	7,650 (66)	4,070 (72)	3,720 (76)
80	8,630 (56.5)	6,110 (60)	6,050 (62)	7,220 (64)	3,940 (70)	3,700 (73.5)
85	8,270 (54)	5,970 (57.5)	6,050 (59)	6,870 (62)	3,830 (67.5)	3,700 (71.5)
90	7,900 (51)	5,840 (54.5)	6,050 (56)	6,530 (60)	3,730 (65.5)	3,700 (69)
95	7,120 (48.5)	5,740 (51.5)		6,130 (58)	3,640 (63.5)	3,700 (66.5)
100	6,320 (45.5)	5,650 (48.5)		5,730 (55.5)	3,550 (61)	3,700 (64)
110	4,970 (38.5)	5,210 (41.5)		5,060 (51)	3,420 (56)	3,480 (59)
120	3,860 (30.5)	,		4,510 (46)	3,320 (51)	
130	2,950 (18.5)			3,630 (40)	3,280 (45)	
140	,			2,850 (33.5)	2,320 (37.5)	
150				2,180 (24.5)	<u> </u>	
Minimum boom angle deg.) for indicated length	2	25	45	2	25	45
Maximum boom length (ft.) at 0 deg. boom angle		110			110	

*This capacity is based on maximum boom angle.

A6-829-015082

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.











					85% Domes	tic (Pounds)	
	31 FT.	LENGTH (SWINGAWAY		56 FT. LENGTH (SWINGAWAY BASE & FLY)			
(Feet)	1.5°	25 °	45 °		1.5°	25 °	45 °
25	*12,900 (80)						
30	12,900 (78.5)						
35	12,900 (76.5)	8,340 (79.5)			8,220 (79.5)		
40	12,750 (74.5)	8,020 (77.5)	*6,370 (80)		8,220 (78)		
45	12,350 (72.5)	7,730 (76)	6,300 (79)		8,220 (76.5)		
50	11,500 (70.5)	7,390 (74)	6,250 (77)		8,220 (75)	*4,780 (80)	
55	10,950 (68.5)	7,130 (72)	6,190 (74.5)		8,220 (74)	4,640 (79.5)	
60	10,400 (66.5)	6,870 (69.5)	6,120 (72)		8,220 (72)	4,490 (78)	
65	9,960 (64)	6,660 (67.5)	6,090 (69.5)		8,220 (70)	4,340 (76)	*3,770 (80)
70	9,480 (61.5)	6,450 (65)	6,050 (67)		8,080 (68)	4,190 (74)	3,740 (78)
75	9,060 (59)	6,280 (62.5)	6,050 (64.5)		7,650 (66)	4,070 (72)	3,720 (76)
80	8,630 (56.5)	6,110 (60)	6,050 (62)		7,220 (64)	3,940 (70)	3,700 (73.5)
85	7,910 (54)	5,970 (57.5)	6,050 (59)		6,870 (62)	3,830 (67.5)	3,700 (71.5)
90	6,950 (51)	5,840 (54.5)	6,050 (56)		6,530 (60)	3,730 (65.5)	3,700 (69)
95	6,120 (48.5)	5,740 (51.5)			6,130 (58)	3,640 (63.5)	3,700 (66.5)
100	5,370 (45.5)	5,650 (48.5)			5,730 (55.5)	3,550 (61)	3,700 (64)
110	4,120 (38.5)	4,360 (41.5)		_	4,820 (51)	3,420 (56)	3,480 (59)
120	3,090 (30.5)	(1110)			3,780 (46)	3,320 (51)	
130	2,240 (18.5)				2,920 (40)	3,280 (45)	
140	(.0.0)				2,200 (33.5)	2,320 (37.5)	
150					1,580 (24.5)	(07.0)	
Minimum boom angle (deg.) for indicated length	2	25	45		2	25	45
Maximum boom length (ft.) at 0 deg. boom angle		110				110	

*This capacity is based on maximum boom angle.

A6-829-015083











					85% Domest	tic (Pounds)	
	31 FT.	LENGTH (SWINGAWAY	BASE)	T	56 FT. LENG	TH (SWINGAWAY BA	SE & FLY)
(Feet)	1.5°	25 °	45 °		1.5°	25 °	45 °
25	*12,900 (80)						
30	12,900 (78.5)						
35	12,900 (76.5)	8,340 (79.5)			8,220 (79.5)		
40	12,750 (74.5)	8,020 (77.5)	*6,370 (80)		8,220 (78)		
45	12,350 (72.5)	7,730 (76)	6,300 (79)		8,220 (76.5)		
50	11,500 (70.5)	7,390 (74)	6,250 (77)		8,220 (75)	*4,780 (80)	
55	10,950 (68.5)	7,130 (72)	6,190 (74.5)		8,220 (74)	4,640 (79.5)	
60	10,400 (66.5)	6,870 (69.5)	6,120 (72)		8,220 (72)	4,490 (78)	
65	9,960 (64)	6,660 (67.5)	6,090 (69.5)		8,220 (70)	4,340 (76)	*3,770 (80)
70	9,480 (61.5)	6,450 (65)	6,050 (67)		8,080 (68)	4,190 (74)	3,740 (78)
75	9,060 (59)	6,280 (62.5)	6,050 (64.5)		7,650 (66)	4,070 (72)	3,720 (76)
80	8,080 (56.5)	6,110 (60)	6,050 (62)		7,220 (64)	3,940 (70)	3,700 (73.5)
85	7,050 (54)	5,970 (57.5)	6,050 (59)		6,870 (62)	3,830 (67.5)	3,700 (71.5)
90	6,150 (51)	5,840 (54.5)	6,050 (56)		6,530 (60)	3,730 (65.5)	3,700 (69)
95	5,360 (48.5)	5,740 (51.5)			6,090 (58)	3,640 (63.5)	3,700 (66.5)
100	4,660 (45.5)	5,040 (48.5)			5,380 (55.5)	3,550 (61)	3,700 (64)
110	3,480 (38.5)	3,730 (41.5)			4,180 (51)	3,420 (56)	3,480 (59)
120	2,510 (30.5)				3,210 (46)	3,320 (51)	
130	1,710 (18.5)				2,390 (40)	2,780 (45)	
140					1,710 (33.5)	1,940 (37.5)	
150					1,130 (24.5)		
Minimum boom angle (deg.) for indicated length	2	25	45		14	25	45
Maximum boom length (ft.) at 0 deg. boom angle		110				110	

*This capacity is based on maximum boom angle.











				85% Domesti	ic (Pounds)		
	31 FT. LI	ENGTH (SWINGAWA	Y BASE)	56 FT. LENGTH (SWINGAWAY BASE & FLY			
(Feet)	1.5°		45 °	1.5°	25 °	45°	
25	*12,900 (80)						
30	12,900 (78.5)						
35	12,900 (76.5)	8,340 (79.5)		8,220 (79.5)			
40	12,750 (74.5)	8,020 (77.5)	*6,370 (80)	8,220 (78)			
45	12,350 (72.5)	7,730 (76)	6,300 (79)	8,220 (76.5)			
50	11,500 (70.5)	7,390 (74)	6,250 (77)	8,220 (75)	*4,780 (80)		
55	10,950 (68.5)	7,130 (72)	6,190 (74.5)	8,220 (74)	4,640 (79.5)		
60	10,400 (66.5)	6,870 (69.5)	6,120 (72)	8,220 (72)	4,490 (78)		
65	9,960 (64)	6,660 (67.5)	6,090 (69.5)	8,220 (70)	4,340 (76)	*3,770 (80)	
70	9,480 (61.5)	6,450 (65)	6,050 (67)	8,080 (68)	4,190 (74)	3,740 (78)	
75	8,450 (59)	6,280 (62.5)	6,050 (64.5)	7,650 (66)	4,070 (72)	3,720 (76)	
80	7,310 (56.5)	6,110 (60)	6,050 (62)	7,220 (64)	3,940 (70)	3,700 (73.5)	
85	6,340 (54)	5,970 (57.5)	6,050 (59)	6,870 (62)	3,830 (67.5)	3,700 (71.5)	
90	5,490 (51)	5,840 (54.5)	6,050 (56)	6,220 (60)	3,730 (65.5)	3,700 (69)	
95	4,740 (48.5)	5,190 (51.5)		5,460 (58)	3,640 (63.5)	3,700 (66.5)	
100	4,070 (45.5)	4,450 (48.5)		4,790 (55.5)	3,550 (61)	3,700 (64)	
110	2,950 (38.5)	3,200 (41.5)		3,650 (51)	3,420 (56)	3,480 (59)	
120	2,030 (30.5)			2,720 (46)	3,290 (51)		
130	1,270 (18.5)			1,950 (40)	2,330 (45)		
140				1,300 (33.5)	1,530 (37.5)		
nimum boom angle) for indicated length	2	25	45	23	26	45	
imum boom length t 0 deg. boom angle		110			100		

*This capacity is based on maximum boom angle.











				85% Domes	tic (Pounds)	
	31 FT. LI	ENGTH (SWINGAWA)	(BASE)	56 FT. LENG	TH (SWINGAWAY B	ASE & FLY)
(Feet)	1.5°	25 °	45 °	1.5°	25 °	45 °
25	*12,900 (80)					
30	12,900 (78.5)					
35	12,900 (76.5)	8,340 (79.5)		8,220 (79.5)		
40	12,750 (74.5)	8,020 (77.5)	*6,370 (80)	8,220 (78)		
45	12,350 (72.5)	7,730 (76)	6,300 (79)	8,220 (76.5)		
50	11,500 (70.5)	7,390 (74)	6,250 (77)	8,220 (75)	*4,780 (80)	
55	10,950 (68.5)	7,130 (72)	6,190 (74.5)	8,220 (74)	4,640 (79.5)	
60	10,400 (66.5)	6,870 (69.5)	6,120 (72)	8,220 (72)	4,490 (78)	
65	9,960 (64)	6,660 (67.5)	6,090 (69.5)	8,220 (70)	4,340 (76)	*3,770 (80)
70	8,690 (61.5)	6,450 (65)	6,050 (67)	8,080 (68)	4,190 (74)	3,740 (78)
75	7,450 (59)	6,280 (62.5)	6,050 (64.5)	7,650 (66)	4,070 (72)	3,720 (76)
80	6,390 (56.5)	6,110 (60)	6,050 (62)	7,150 (64)	3,940 (70)	3,700 (73.5)
85	5,480 (54)	5,970 (57.5)	6,050 (59)	6,220 (62)	3,830 (67.5)	3,700 (71.5)
90	4,680 (51)	5,230 (54.5)	5,400 (56)	5,410 (60)	3,730 (65.5)	3,700 (69)
95	3,980 (48.5)	4,440 (51.5)		4,710 (58)	3,640 (63.5)	3,700 (66.5)
100	3,360 (45.5)	3,740 (48.5)		4,080 (55.5)	3,550 (61)	3,700 (64)
110	2,310 (38.5)	2,560 (41.5)		3,010 (51)	3,420 (56)	3,480 (59)
120	1,450 (30.5)			2,140 (46)	2,710 (51)	
130	· ,			1,420 (40)	1,810 (45)	
140					1,040 (37.5)	
Minimum boom angle eg.) for indicated length	16	25	45	31	32	45
Maximum boom length .) at 0 deg. boom angle		100			90	

 ${}^{\star}\text{This}$ capacity is based on maximum boom angle.

Working Range











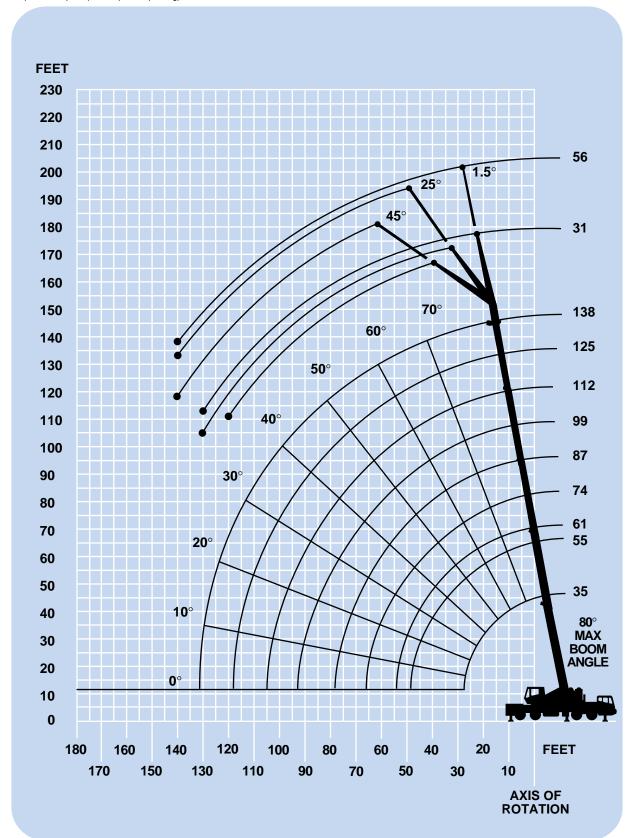
35-138 ft. (10.8-42.0 m)

. 31-56 ft. m) (9.4-17 m)

8

(3856 kg)

36



Weight Reductions for Load Handling Devices

5 Section Boom 31 ft. - 56 ft. (9.4 m - 17 m) Folding Boom Extension

*31 ft. (9.4 m) extension (erected)	4,048 lbs.	(1836 kg)
*56 ft. (17 m) extension (erected)	8,941 lbs.	(4056 kg)

^{*}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.

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.

Auxiliary Boom Nose	116 lbs.	(53 kg)
+ 70 ton, 6 sheave hookblock w/o cheekplates	1,674 lbs.	(759 kg)
+ 70 ton, 6 sheave hookblock w/cheekplates	2,010 lbs.	(912 kg)
+ 45 ton, 3 sheave hookblock w/o cheekplates	876 lbs.	(397 kg)
+ 45 ton, 3 sheave hookblock w/cheekplates	1,066 lbs.	(484 kg)
+ 15 ton, 1 sheave hookblock	380 lbs.	(173 kg)
+ 10 ton headache ball	560 lbs.	(254 kg)

+ Refer to rating plate for actual weight.









35 - 138 ft. (10.8 - 42.0 m)

18,000 lbs. (8165 kg)

00%

360°

						85% Dome	estic (Pounds))	
(Feet)	35	55	61	74	87	99	112	125	138
10	+140,000 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	110,000 (62)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	95,800 (56)	79,100 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	77,250 (44.5)	70,850 (64.5)	59,850 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	30,050 (79.5)	*20,150 (80)	
25	58,500 (29.5)	58,200 (58)	52,200 (62)	38,750 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (77)	20,150 (79)	*19,000 (80)
30		45,850 (51)	46,200 (56.5)	34,200 (63)	29,200 (68)	30,200 (71.5)	27,350 (74.5)	19,100 (76.5)	18,300 (78.5)
35		37,100 (43.5)	37,500 (50)	29,050 (58.5)	25,800 (64)	26,600 (68.5)	24,300 (71.5)	18,100 (74)	17,650 (76.5)
40		27,050 (34.5)	27,500 (43)	25,150 (53.5)	22,900 (60)	23,450 (65)	21,600 (69)	17,250 (72)	17,000 (74)
45		22,000 (21.5)	22,450 (35)	21,800 (48.5)	20,000 (56)	20,450 (61.5)	19,250 (66)	16,450 (69)	16,350 (72)
50		(2110)	18,500 (24.5)	18,550 (42.5)	17,500 (52)	17,900 (58.5)	16,900 (63)	15,750 (66.5)	15,700 (69.5)
60			(=)	12,800 (28)	12,800 (42.5)	14,000 (51)	13,250 (57)	13,100 (61.5)	13,300 (65)
70				(23)	8,830 (30)	10,150 (42.5)	10,700 (50)	10,700 (56)	11,050 (60)
80					(55)	7,160 (32)	8,240 (42.5)	8,660 (49.5)	9,120 (55)
90						4,800 (15.5)	5,870 (33.5)	6,700 (43)	7,380 (49.5)
100						_(::::)	4,010 (21)	4,840 (35)	5,500 (43)
110							(= : /	3,340 (24.5)	4,000 (36)
120								(24.0)	2,760 (27)
130									1,720 (9.5)
Minimum	boom angle (de	g.) for indicated	length (no load)	ı					9
Maximun	n boom length (ft	.) at 0 degree bo	oom angle (no lo	ad)					125
NOTE: () Boom angles	are in degree	es.						
*This cap	acity is based on	maximum boo	m angle.						
+ 12 part	ts line required	I to lift this ca	pacity (using	aux. boom no	se).				
Boom									
Angle	35	55	61	74	87	99	112	125	
0	26,400 (28.2)	12,500 (47.4)	10,150 (53.8)	6,240 (66.6)	3,420 (79.4)	2,440 (92.2)	1,680 (105)	1,070 (117.8)	

A6-829-014914

T1 T2 T3	™ M	ODE B							
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

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.







35 - 138 ft. (10.8 - 42.0 m)

12,500 lbs. (5670 kg)

)	

(29.5)							85% Dome	estic (Pounds)	
10)	35	55	61	74	87	99	112	125	138
15										
15										
25										
(29.5)										
30										*19,000 (80)
35 (33,350 33,700 29,050 25,800 26,600 24,300 18,100 1 4 4 50 4 4 50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						29,200	30,200			18,300 (78.5)
45										17,650 (76.5)
45			27,050	27,500	25,150	22,900	23,450	21,600	17,250	17,000 (74)
17,900			21,750	22,050	21,800	20,000	20,450	19,250	16,450	16,350 (72)
11,200				17,900	17,600	17,500	17,900			15,700 (69.5)
100 130 142.5) 150 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 156 1										13,300 (65)
(32) (42.5) (49.5) (90 (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (33.5) (43) (15.5) (15.5) (33.5) (43) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.5) (15.										11,050 (60)
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110 (21) (35) 110 2,400 (24.5) 120 130 Minimum boom angle (deg.) for indicated length (no load) Maximum boom length (ft.) at 0 degree boom angle (no load) NOTE: () Boom angles are in degrees. *This capacity is based on maximum boom angle. + 12 parts line required to lift this capacity (using aux. boom nose). Boom Angle 35 55 61 74 87 99 112 125										6,430 (49.5)
120 130 Minimum boom angle (deg.) for indicated length (no load) Maximum boom length (ft.) at 0 degree boom angle (no load) NOTE: () Boom angles are in degrees. *This capacity is based on maximum boom angle. + 12 parts line required to lift this capacity (using aux. boom nose). Boom Angle 35 55 61 74 87 99 112 125										4,720 (43)
130 Minimum boom angle (deg.) for indicated length (no load) Maximum boom length (ft.) at 0 degree boom angle (no load) NOTE: () Boom angles are in degrees. *This capacity is based on maximum boom angle. + 12 parts line required to lift this capacity (using aux. boom nose). Boom Angle 35 55 61 74 87 99 112 125										3,360 (36)
Minimum boom angle (deg.) for indicated length (no load) Maximum boom length (ft.) at 0 degree boom angle (no load) NOTE: () Boom angles are in degrees. *This capacity is based on maximum boom angle. + 12 parts line required to lift this capacity (using aux. boom nose). Boom Angle 35 55 61 74 87 99 112 125										2,250 (27)
Maximum boom length (ft.) at 0 degree boom angle (no load) NOTE: () Boom angles are in degrees. *This capacity is based on maximum boom angle. + 12 parts line required to lift this capacity (using aux. boom nose). Boom Angle 35 55 61 74 87 99 112 125										1,330 (9.5)
NOTE: () Boom angles are in degrees. *This capacity is based on maximum boom angle. + 12 parts line required to lift this capacity (using aux. boom nose). Boom Angle 35 55 61 74 87 99 112 125	mum bo	oom angle (de	g.) for indicated	length (no load)						9
*This capacity is based on maximum boom angle. + 12 parts line required to lift this capacity (using aux. boom nose). Boom Angle 35 55 61 74 87 99 112 125	imum b	oom length (fi	t.) at 0 degree bo	oom angle (no lo	ad)					125
+ 12 parts line required to lift this capacity (using aux. boom nose). Boom Angle 35 55 61 74 87 99 112 125	ΓΕ: () E	Boom angles	s are in degree	es.						
Boom Angle 35 55 61 74 87 99 112 125	s capaci	ty is based on	maximum boo	m angle.						
Angle 35 55 61 74 87 99 112 125	2 parts	line required	d to lift this ca	pacity (using	aux. boom no	se).				
26 400 42 500 40 450 6 240 2 420 2 440 4 690 1 070		35	55	61	74	87	99	112	125	
0 (28.2) (47.4) (53.8) (66.6) (79.4) (92.2) (105) (117.8)		26,400	12,500	10,150	6,240	3,420	2,440	1,680	1,070	

A6-829-014915

[T1 T2 T3 T4	% M (ODE B							
	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

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this









35 - 138 ft. (10.8 - 42.0 m)

8,500 lbs. (3856 kg)

			85% Dome	5% Domestic (Pounds)					
(Feet)	35	55	61	74	87	99	112	125	138
10	+140,000 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	110,000 (62)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	95,800 (56)	79,100 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	70,700 (44.5)	70,300 (64.5)	59,850 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	30,050 (79.5)	*20,150 (80)	
25	53,150 (29.5)	52,850 (58)	52,200 (62)	38,750 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (79.5)	20,150 (79)	*19,000 (80)
30		41,400 (51)	41,800 (56.5)	34,200 (63)	29,200 (68)	30,200 (71.5)	27,350 (74.5)	19,100 (76.5)	18,300 (78.5)
35		31,850 (43.5)	31,950 (50)	29,050 (58.5)	25,800 (64)	26,600 (68.5)	24,300 (71.5)	18,100 (74)	17,650 (76.5)
40		24,700 (34.5)	24,750 (43)	24,800 (53.5)	22,900 (60)	23,450 (65)	21,600 (69)	17,250 (72)	17,000 (74)
45		19,550 (21.5)	19,550 (35)	19,750 (48.5)	19,500 (56)	20,450 (61.5)	19,250 (66)	16,450 (69)	16,350 (72)
50		,	15,700 (24.5)	15,400 (42.5)	15,350 (52)	16,550 (58.5)	16,900 (63)	15,750 (66.5)	15,700 (69.5)
60			, ,	9,490 (28)	9,730 (42.5)	10,800 (51)	11,900 (57)	13,000 (61.5)	13,300 (65)
70				, ,	6,020 (30)	7,040 (42.5)	8,080 (50)	9,130 (56)	10,200 (60)
80					, ,	4,390 (32)	5,390 (42.5)	6,400 (49.5)	7,430 (55)
90						2,420 (15.5)	3,390 (33.5)	4,370 (43)	5,370 (49.5)
100							1,840 (21)	2,800 (35)	3,770 (43)
110								1,550 (24.5)	2,510 (36)
120									1,480 (27)
Minimum	n boom angle (de	g.) for indicated	length (no load)	•				5	10
Maximun	n boom length (f	t.) at 0 degree b	oom angle (no k	oad)				1	12
NOTE: () Boom angles	are in degre	es.						
*This cap	acity is based on	maximum boo	m angle.						
+ 12 par	ts line required	d to lift this ca	pacity (using	aux. boom no	se).				
Boom									
Angle	35	55	61	74	87	99	112		
0	26,400 (28.2)	12,500 (47.4)	10,150 (53.8)	6,240 (66.6)	3,420 (79.4)	2,060 (92.2)	1,200 (105)		

A6-829-014530A

T1 T2 T3 T4	% M (ODE B							
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

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.







35 - 138 ft. (10.8 - 42.0 m)

5,500 lbs. (2495 kg)

						85% Dome	estic (Pounds))	
(Feet)	35	55	61	74	87	99	112	125	138
10	+140,000 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	110,000 (62)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	95,800 (56)	79,100 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	68,550 (44.5)	68,150 (64.5)	59,850 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	30,050 (77)	*20,150 (80)	
25	51,450 (29.5)	51,150 (58)	51,550 (62)	38,750 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (77)	20,150 (79)	*19,000 (80)
30		39,750 (51)	39,600 (56.5)	34,200 (63)	29,200 (68)	30,200 (71.5)	27,350 (74.5)	19,100 (76.5)	18,300 (78.5)
35		29,550 (43.5)	29,500 (50)	29,050 (58.5)	25,800 (64)	26,600 (68.5)	24,300 (71.5)	18,100 (74)	17,650 (76.5)
40		22,750 (34.5)	22,500 (43)	22,850 (53.5)	22,750 (60)	23,450 (65)	21,600 (69)	17,250 (72)	17,000 (74)
45		17,650 (21.5)	17,650 (35)	17,850 (48.5)	17,600 (56)	18,800 (61.5)	19,250 (66)	16,450 (69)	16,350 (72)
50			14,050 (24.5)	13,800 (42.5)	13,750 (52)	14,900 (58.5)	16,050 (63)	15,750 (66.5)	15,700 (69.5)
60				8,190 (28)	8,430 (42.5)	9,500 (51)	10,550 (57)	11,700 (61.5)	12,800 (65)
70					4,950 (30)	5,970 (42.5)	7,000 (50)	8,060 (56)	9,120 (60)
80						3,470 (32)	4,470 (42.5)	5,480 (49.5)	6,510 (55)
90						1,610 (15.5)	2,580 (33.5)	3,570 (43)	4,560 (49.5)
100							1,130 (21)	2,090 (35)	3,060 (43)
110									1,870 (36)
Minimum	n boom angle (de	g.) for indicated	length (no load)				20	27	33
Maximun	n boom length (ft	.) at 0 degree bo	oom angle (no lo	ad)				99	
NOTE: () Boom angles	are in degree	es.						
*This cap	acity is based on	maximum boo	m angle.						
+ 12 par	rts line required	d to lift this ca	pacity (using	aux. boom no	se).				
Boom Angle	35	55	61	74	87	99			
0	26,400 (28.2)	12,500 (47.4)	10,150 (53.8)	5,640 (66.6)	2,630 (79.4)	1,280 (92.2)			

A6-829-014533A

L	T1 T2 T3 T4	% M (ODE B							
	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

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



35 - 138 ft. (10.8 - 42.0 m)







3,000 lbs. 100% (1361 kg)

						85% Dom	estic (Pounds))	
(Feet)	35	55	61	74	87	99	112	125	138
10	+140,000 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	110,000 (62)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	95,350 (56)	79,100 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	66,750 (44.5)	66,400 (64.5)	59,850 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	30,050 (79.5)	*20,150 (80)	
25	50,050 (29.5)	49,750 (58)	50,150 (62)	38,750 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (77)	20,150 (79)	*19,000 (80)
30		37,300 (51)	37,200 (56.5)	34,200 (63)	29,200 (68)	30,200 (71.5)	27,350 (74.5)	19,100 (76.5)	18,300 (78.5)
35		27,600 (43.5)	27,250 (50)	27,500 (58.5)	25,800 (64)	26,600 (68.5)	24,300 (71.5)	18,100 (74)	17,650 (76.5)
40		20,900 (34.5)	20,650 (43)	21,250 (53.5)	21,000 (60)	22,300 (65)	21,600 (69)	17,250 (72)	17,000 (74)
45		16,050 (21.5)	16,050 (35)	16,300 (48.5)	16,000 (56)	17,250 (61.5)	18,450 (66)	16,450 (69)	16,350 (72)
50			12,650 (24.5)	12,400 (42.5)	12,350 (52)	13,500 (58.5)	14,700 (63)	15,750 (66.5)	15,700 (69.5)
60				7,110 (28)	7,340 (42.5)	8,420 (51)	9,510 (57)	10,600 (61.5)	11,700 (65)
70					4,050 (30)	5,070 (42.5)	6,110 (50)	7,160 (56)	8,220 (60)
80						2,700 (32)	3,700 (42.5)	4,720 (49.5)	5,740 (55)
90							1,920 (33.5)	2,900 (43)	3,900 (49.5)
100								1,500 (35)	2,470 (43)
110									1,340 (36)
Minimu	m boom angle (d	deg.) for indicate	ed length (no loa	d)		20	27	32	35
Maximu	ım boom length	(ft.) at 0 degree b	ooom angle (no l	oad)				87	
NOTE:	() Boom angle	es are in degre	es.						
*This ca	pacity is based	on maximum bo	om angle.						
+ 12 pa	rts line require	ed to lift this c	apacity (using	aux. boom no	se).				
Boom									
Angle	35	55	61	74	87				

26,400

(28.2)

0

12,500 (47.4) 10,150 (53.8) 4,680

(66.6)

A6-829-014536A

T1\T2\T3	<u>√</u> %	MODE B							
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

1,860 (79.4)

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.







35 - 138 ft. (10.8 - 42.0 m)

0 lbs. (0 kg)

						85% Don	nestic (Pound	s)	
(Feet)	35	55	61	74	87	99	112	125	138
10	139,500 (65.5)	79,100 (76)	78,450 (77.5)	*57,050 (80)					
12	110,000 (62)	79,100 (73.5)	77,500 (75.5)	57,050 (78.5)	*43,300 (80)				
15	92,450 (56)	79,100 (70)	69,850 (72.5)	51,650 (76)	43,300 (78.5)	*32,100 (80)			
20	64,600 (44.5)	64,250 (64.5)	59,850 (67.5)	44,350 (71.5)	39,550 (75)	32,100 (77.5)	30,050 (79.5)	*20,150 (80)	
25	48,350 (29.5)	48,050 (58)	48,450 (62)	38,750 (67.5)	33,800 (71.5)	32,100 (74.5)	30,050 (77)	20,150 (79)	*19,000 (80)
30		34,400 (51)	34,050 (56.5)	34,050 (63)	29,200 (68)	30,200 (71.5)	27,350 (74.5)	19,100 (76.5)	18,300 (78.5)
35		25,150 (43.5)	24,500 (50)	25,200 (58.5)	25,250 (64)	26,600 (68.5)	24,300 (71.5)	18,100 (74)	17,650 (76.5)
40		18,650 (34.5)	18,400 (43)	19,300 (53.5)	18,750 (60)	20,050 (65)	21,350 (69)	17,250 (72)	17,000 (74)
45		14,150 (21.5)	14,150 (35)	14,400 (48.5)	14,100 (56)	15,350 (61.5)	16,550 (66)	16,450 (69)	16,350 (72)
50			11,050 (24.5)	10,750 (42.5)	10,700 (52)	11,850 (58.5)	13,050 (63)	14,250 (66.5)	15,450 (69.5)
60				5,810 (28)	6,040 (42.5)	7,110 (51)	8,210 (57)	9,310 (61.5)	10,400 (65)
70					2,970 (30)	3,990 (42.5)	5,030 (50)	6,080 (56)	7,140 (60)
80						1,780 (32)	2,780 (42.5)	3,800 (49.5)	4,820 (55)
90							1,120 (33.5)	2,100 (43)	3,100 (49.5)
100									1,760 (43)
Minimum	n boom angle (d	deg.) for indicate	ed length (no loa	ıd)	20	25	33	37	40
Maximur	m boom length	(ft.) at 0 degree	boom angle (no			74			

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

Boom Angle	35	55	61	74
0	26,400	12,500	9,190	3,540
	(28,2)	(47,4)	(53.8)	(66.6)

NOTE: () Reference radii are in feet.

A6-829-014539

L	T1\T2\T3\T4\	%	MODE B							
	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











					85% Domest	tic (Pounds)	
	31 FT. L	ENGTH (SWINGAWA	Y BASE)	Π	56 FT. LENG	TH (SWINGAWAY BA	ASE & FLY)
(Feet)	1.5°	25 °	45 °		1.5°	25 °	45 °
35	9,500 (79.5)						
40	9,500 (78)				*5,500 (80)		
45	9,500 (76.5)	*8,750 (80)			5,400 (79.5)		
50	9,500 (75)	7,490 (78.5)	*7,800 (80)		5,300 (78)		
60	9,110 (71.5)	7,060 (75)	6,740 (77)		5,100 (75.5)	*4,640 (80)	
70	8,450 (68.5)	6,720 (71.5)	6,460 (73.5)		4,900 (72.5)	4,430 (78)	*3,600 (80)
80	7,550 (64.5)	6,330 (68)	6,350 (69.5)		4,700 (69.5)	4,220 (74.5)	3,500 (77.5)
90	6,990 (60.5)	6,060 (64)	6,280 (65.5)		4,500 (66.5)	4,120 (71)	3,400 (74)
100	6,330 (56.5)	5,820 (60)	6,220 (61)		4,300 (63.5)	3,810 (67.5)	3,300 (70.5)
110	4,820 (52)	5,400 (55.5)	5,670 (56.5)		4,100 (59.5)	3,600 (64)	3,200 (67)
120	3,580 (47)	4,050 (50.5)	4,050 (52)		3,900 (56)	3,400 (60.5)	3,100 (63)
130	2,550 (41.5)	2,910 (45)			3,190 (52)	3,190 (56)	3,000 (58.5)
140	1,680 (35.5)	1,940 (38.5)			2,300 (47.5)	2,980 (51.5)	2,900 (53.5)
150					1,540 (42.5)	2,100 (46.5)	
160						1,300 (41)	
Minimum boom angle (deg.) for indicated lengt	h 32	32	45		40	40	45
Maximum boom length (ft.) at 0 deg. boom angle	9	112				99	

MODE B A6-829-014929

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











				85% Domes	tic (Pounds)	
	31 FT. L	ENGTH (SWINGAW)	AY BASE)	56 FT. LENG	TH (SWINGAWAY B	ASE & FLY)
(Feet)	1.5°	25 °	45 °	1.5°	25 °	45 °
35	9,500 (79.5)					
40	9,500 (78)			*5,500 (80)		
45	9,500 (76.5)	*8,750 (80)		5,400 (79.5)		
50	9,500 (75)	7,490 (78.5)	*7,800 (80)	5,300 (78)		
60	9,110 (71.5)	7,060 (75)	6,740 (77)	5,100 (75.5)	*4,640 (80)	
70	8,450 (68.5)	6,720 (71.5)	6,460 (73.5)	4,900 (72.5)	4,430 (78)	*3,600 (80)
80	7,550 (64.5)	6,330 (68)	6,350 (69.5)	4,700 (69.5)	4,220 (74.5)	3,500 (77.5)
90	6,990 (60.5)	6,060 (64)	6,280 (65.5)	4,500 (66.5)	4,120 (71)	3,400 (74)
100	5,480 (56.5)	5,820 (60)	6,220 (61)	4,300 (63.5)	3,810 (67.5)	3,300 (70.5)
110	4,050 (52)	4,710 (55.5)	4,820 (56.5)	4,100 (59.5)	3,600 (64)	3,200 (67)
120	2,890 (47)	3,430 (50.5)	3,430 (52)	3,890 (56)	3,400 (60.5)	3,100 (63)
130	1,920 (41.5)	2,370 (45)		2,850 (52)	3,190 (56)	3,000 (58.5)
140	1,110 (35.5)	1,470 (38.5)		1,970 (47.5)	2,290 (51.5)	2,570 (53.5)
150				1,220 (42.5)	1,390 (46.5)	
Minimum boom ar (deg.) for indicated I	length 34	38	45	42	45	47
Maximum boom ler (ft.) at 0 deg. boom a		99			74	
NOTE: () Bo	oom angles are in o	legrees.				

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

A6-829-014931

MODE B



(10.8 - 42.0 m)









85% Domestic (Pounds) 31 FT. LENGTH (SWINGAWAY BASE) 56 FT. LENGTH (SWINGAWAY BASE & FLY) 1.5° 45° 1.5° 45° (Feet) 9,500 35 (79.5) *5,500 (80) 9,500 40 (78) 9,500 5,400 45 (76.5)(80) (79.5)7,490 (78.5) *7,800 (80) 9,500 5,300 50 (78) (75) *4,640 (80) 9,110 7,060 6,740 5,100 60 (71.5)(75.5)(75) (77) 8,450 6,720 6,460 4,900 4,430 *3,600 70 (68.5) $(7\dot{1}.5)$ (73.5)(72.5)(78) (80) 7,550 (64.5) 3,500 (77.5) 6,350 4,220 6,330 4,700 80 (68) (69.5)(69.5)(74.5)6,060 4,500 (66.5) 4,120 (71) 6.200 6.280 3,400 90 (74) (60.5)(64) (65.5) 4,530 (56.5) 5,330 (60) 5,580 3,300 (70.5) 4,300 3,810 100 (63.5)(61) (67.5)3,200 3,860 3,970 4,100 3,600 3,200 110 (52) (55.5)(56.5)(59.5)(64)(67) 2,120 (47) 3,100 (63) 2,660 2,660 3,120 3,400 120 (50.5)(52) (60.5) (56) 2,150 1,220 1,660 2,640 3,000 130 (41.5)(52) (56) (58.5)(45)1,640 (51.5) 1,320 1,920 140 (47.5)(53.5)Minimum boom angle (deg.) for indicated length 44 45 47 49 50 Maximum boom length (ft.) at 0 deg. boom angle 99 87

*This capacity is based on maximum boom angle.

MODE B A6-829-014543A











					85% Domesti	c (Pounds)	
	31 FT.	LENGTH (SWINGAWAY	BASE)	ī	56 FT. LENG	TH (SWINGAWAY B	ASE & FLY)
(Feet)	1.5°	25 °	45 °		1.5 °	25 °	45 °
35	9,500 (79.5)						
40	9,500 (78)				*5,500 (80)		
45	9,500 (76.5)	*8,750 (80)			5,400 (79.5)		
50	9,500 (75)	7,490 (78.5)	*7,800 (80)		5,300 (78)		
60	9,110 (71.5)	7,060 (75)	6,740 (77)		5,100 (75.5)	*4,640 (80)	
70	8,450 (68.5)	6,720 (71.5)	6,460 (73.5)		4,900 (72.5)	4,430 (78)	*3,600 (80)
80	7,450 (64.5)	6,330 (68)	6,350 (69.5)		4,700 (69.5)	4,220 (74.5)	3,500 (77.5)
90	5,400 (60.5)	6,060 (64)	6,280 (65.5)		4,500 (66.5)	4,120 (71)	3,400 (74)
100	3,820 (56.5)	4,390 (60)	4,870 (61)		4,300 (63.5)	3,810 (67.5)	3,300 (70.5)
110	2,560 (52)	2,980 (55.5)	3,330 (56.5)		3,660 (59.5)	3,600 (64)	3,200 (67)
120	1,540 (47)	1,830 (50.5)	2,080 (52)		2,540 (56)	3,250 (60.5)	3,100 (63)
130					1,620 (52)	2,110 (56)	2,540 (58.5)
140						1,150 (51.5)	1,430 (53.5)
Minimum boom angle (deg.) for indicated length	44	44	45		50	51	52
Maximum boom length (ft.) at 0 deg. boom angle		74				74	

MODE B A6-829-014545

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











					85% Domest	ic (Pounds)	
	31 FT	. LENGTH (SWINGAWAY	BASE)	T	56 FT. LENGTH (SWINGAWAY BASE & FLY)		
(Feet)	1.5°	25 °	45 °		1.5°	25 °	45 °
35	9,500 (79.5)						
40	9,500 (78)				*5,500 (80)		
45	9,500 (76.5)	*8,750 (80)			5,400 (79.5)		
50	9,500 (75)	7,490 (78.5)	*7,800 (80)		5,300 (78)		
60	9,110 (71.5)	7,060 (75)	6,740 (77)		5,100 (75.5)	*4,640 (80)	
70	8,450 (68.5)	6,720 (71.5)	6,460 (73.5)		4,900 (72.5)	4,430 (78)	*3,600 (80)
80	6,680 (64.5)	6,330 (68)	6,350 (69.5)		4,700 (69.5)	4,220 (74.5)	3,500 (77.5)
90	4,730 (60.5)	5,490 (64)	6,140 (65.5)		4,500 (66.5)	4,120 (71)	3,400 (74)
100	3,230 (56.5)	3,790 (60)	4,280 (61)		4,300 (63.5)	3,810 (67.5)	3,300 (70.5)
110	2,030 (52)	2,450 (55.5)	2,800 (56.5)		3,130 (59.5)	3,600 (64)	3,200 (67)
120	1,060 (47)	1,350 (50.5)	1,600 (52)		2,060 (56)	2,770 (60.5)	3,100 (63)
130					1,170 (52)	1,670 (56)	2,100 (58.5)
140							1,020 (53.5)
Minimum boom angle (deg.) for indicated length	47	47	48		52	53	54
Maximum boom length (ft.) at 0 deg. boom angle		74				61	

MODE B A6-829-014547A

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











	21 ET	LENGTH (SWINGAWAY			85% Domesti	ic (Pounds)	\SE & El V\	
	3171.	LLINGTH (SWINGAWAT	BAGE)	1	JOFT. LENGT	III (SWINGAWAT BA	ASE & PET)	
(Feet)	1.5°	25 °	45 °		1.5°	25 °	45 °	
35	9,500 (79.5)							
40	9,500 (78)				*5,500 (80)			
45	9,500 (76.5)	*8,750 (80)			5,400 (79.5)			
50	9,500 (75)	7,490 (78.5)	*7,800 (80)		5,300 (78)			
60	9,110 (71.5)	7,060 (75)	6,740 (77)		5,100 (75.5)	*4,640 (80)		
70	8,220 (68.5)	6,720 (71.5)	6,460 (73.5)		4,900 (72.5)	4,430 (78)	*3,600 (80)	
80	5,760 (64.5)	6,330 (68)	6,350 (69.5)		4,700 (69.5)	4,220 (74.5)	3,500 (77.5)	
90	3,930 (60.5)	4,690 (64)	5,330 (65.5)		4,500 (66.5)	4,120 (71)	3,400 (74)	
100	2,520 (56.5)	3,080 (60)	3,570 (61)		3,730 (63.5)	3,810 (67.5)	3,300 (70.5)	
110	1,390 (52)	1,810 (55.5)	2,160 (56.5)		2,490 (59.5)	3,450 (64)	3,200 (67)	
120			1,020 (52)		1,480 (56)	2,190 (60.5)	2,790 (63)	
130						1,140 (56)	1,570 (58.5)	
Minimum boom angle (deg.) for indicated length	50	51	52		55	55	56	
Maximum boom length (ft.) at 0 deg. boom angle		74				61		
NOTE: () Boom angles are in degrees.								

*This capacity is based on maximum boom angle.

MODE B A6-829-014549A











				NI D	85% Domesti	c (Pounds)	
	31 FT.	LENGTH (SWINGAWAY	BASE)	- 1	56 FT. LENG	TH (SWINGAWAY BA	SE & FLY)
(Feet)	1.5°	25 °	45 °		1.5°	25 °	45 °
30	*11,500 (80)						
35	11,500 (78.5)						
40	11,500 (77)	*10,000 (80)			6,950 (79.5)		
45	11,500 (75)	9,300 (78.5)	*8,000 (80)		6,780 (78.5)		
50	11,000 (73.5)	8,790 (76.5)	6,810 (78.5)		6,620 (77)		
60	10,050 (70)	7,960 (72.5)	6,490 (74.5)		6,290 (74)	*4,900 (80)	
70	9,220 (66)	7,360 (68.5)	6,400 (70.5)		5,960 (71)	4,560 (76.5)	*3,700 (80)
80	8,440 (62)	6,900 (64.5)	6,350 (66)		5,640 (67.5)	4,230 (73)	3,520 (76.5)
90	7,340 (57.5)	6,590 (60)	6,340 (61.5)		5,260 (64.5)	3,870 (69.5)	3,400 (72.5)
100	6,020 (53)	6,250 (55)	6,320 (56.5)		4,980 (60.5)	3,700 (65.5)	3,290 (68.5)
110	4,510 (47.5)	5,050 (50)	5,260 (51)		4,650 (56.5)	3,480 (61.5)	3,190 (64)
120	3,280 (41.5)	3,690 (44)			4,070 (52)	3,290 (57.5)	3,110 (59.5)
130	2,250 (34.5)	2,540 (36.5)			3,020 (47.5)	3,120 (52.5)	3,040 (54)
140	1,380 (26)				2,140 (42.5)	2,750 (47.5)	
150					1,380 (36.5)	1,840 (41)	
Minimum boom angle (deg.) for indicated length	24	25	45		35	37	45
Maximum boom length (ft.) at 0 deg. boom angle		112				99	

MODE B A6-829-014930

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



31 - 56 ft. (9.4 - 17 m) FOLDING







				85% Domesti		
	31 FT.	LENGTH (SWINGAWAY	BASE)	56 FT. LENG	TH (SWINGAWAY BA	ASE & FLY)
(Feet)	1.5°	25 °	45 °	1.5°	25 °	45 °
30	*11,500 (80)					
35	11,500 (78.5)					
40	11,500 (77)	*10,000 (80)		6,950 (79.5)		
45	11,500 (75)	9,300 (78.5)	*8,000 (80)	6,780 (78.5)		
50	11,000 (73.5)	8,790 (76.5)	6,810 (78.5)	6,620 (77)		
60	10,050 (70)	7,960 (72.5)	6,490 (74.5)	6,290 (74)	*4,900 (80)	
70	9,220 (66)	7,360 (68.5)	6,400 (70.5)	5,960 (71)	4,560 (76.5)	*3,700 (80)
80	8,440 (62)	6,900 (64.5)	6,350 (66)	5,640 (67.5)	4,230 (73)	3,520 (76.5)
90	6,850 (57.5)	6,590 (60)	6,340 (61.5)	5,260 (64.5)	3,870 (69.5)	3,400 (72.5)
100	5,090 (53)	5,490 (55)	6,060 (56.5)	4,980 (60.5)	3,700 (65.5)	3,290 (68.5)
110	3,690 (47.5)	3,940 (50)	4,310 (51)	4,650 (56.5)	3,480 (61.5)	3,190 (64)
120	2,540 (41.5)	2,670 (44)		3,620 (52)	3,290 (57.5)	3,110 (59.5)
130	1,600 (34.5)	1,620 (36.5)		2,620 (47.5)	3,110 (52.5)	3,040 (54)
140				1,770 (42.5)	2,130 (47.5)	
150				1,050 (36.5)	1,290 (41)	
Minimum boom angle (deg.) for indicated length	33	33	45	36	40	46
Maximum boom length (ft.) at 0 deg. boom angle		99			74	

*This capacity is based on maximum boom angle.

MODE B A6-829-014932











			I		85% Domesti	c (Pounds)	
	31 FT.	LENGTH (SWINGAWAY	BASE)	$\overline{}$	56 FT. LENG	TH (SWINGAWAY BA	ASE & FLY)
(Feet)	1.5°	25 °	45 °		1.5°	25 °	45 °
30	*11,500 (80)						
35	11,500 (78.5)						
40	11,500 (77)	*10,000 (80)			6,950 (79.5)		
45	11,500 (75)	9,300 (78.5)	*8,000 (80)		6,780 (78.5)		
50	11,000 (73.5)	8,790 (76.5)	6,810 (78.5)		6,620 (77)		
60	10,050 (70)	7,960 (72.5)	6,490 (74.5)		6,290 (74)	*4,900 (80)	
70	9,220 (66)	7,360 (68.5)	6,400 (70.5)		5,960 (71)	4,560 (76.5)	*3,700 (80)
80	7,910 (62)	6,900 (64.5)	6,350 (66)		5,640 (67.5)	4,230 (73)	3,520 (76.5)
90	5,790 (57.5)	6,380 (60)	6,340 (61.5)		5,260 (64.5)	3,870 (69.5)	3,400 (72.5)
100	4,140 (53)	4,550 (55)	5,110 (56.5)		4,980 (60.5)	3,700 (65.5)	3,290 (68.5)
110	2,840 (47.5)	3,090 (50)	3,460 (51)		4,060 (56.5)	3,480 (61.5)	3,190 (64)
120	1,770 (41.5)	1,900 (44)			2,860 (52)	3,290 (57.5)	3,110 (59.5)
130					1,860 (47.5)	2,380 (52.5)	2,830 (54)
140					1,020 (42.5)	1,430 (47.5)	
Minimum boom angle (deg.) for indicated length	37	39	46		42	46	47
Maximum boom length (ft.) at 0 deg. boom angle		99				87	
NOTE: () Boom a	ngles are in	degrees.					

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

MODE B A6-829-014542









35 - 138 ft. (10.8 - 42.0 m)

8,500 lbs. (3855 kg)

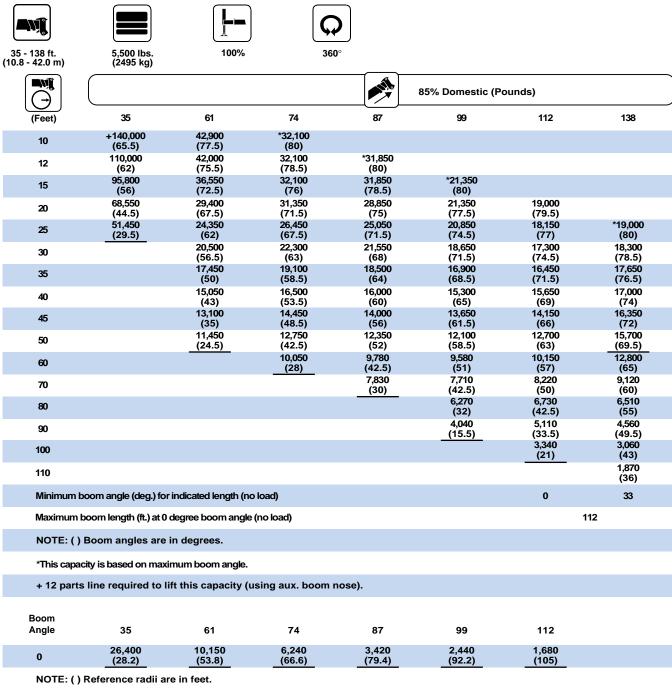
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					85% Domestic (Po	ounds)	
(Feet)	35	61	74	87	99	112	138
10	+140,000 (65.5)	42,900 (77.5)	*32,100 (80)				
12	110,000 (62)	42,000 (75.5)	32,100 (78.5)	*31,850 (80)			
15	95,800 (56)	36,550 (72.5)	32,100 (76)	31,850 (78.5)	*21,350 (80)		
20	70,700 (44.5)	29,400 (67.5)	31,350 (71.5)	28,850 (75)	21,350 (77.5)	19,000 (79.5)	
25	53,150 (29.5)	24,350 (62)	26,450 (67.5)	25,050 (71.5)	20,850 (74.5)	18,150 (77)	*19,000 (80)
30		20,500 (56.5)	22,300 (63)	21,550 (68)	18,650 (71.5)	17,300 (74.5)	18,300 (78.5)
35		17,450 (50)	19,100 (58.5)	18,500 (64)	16,900 (68.5)	16,450 (71.5)	17,650 (76.5)
40		15,050 (43)	16,500 (53.5)	16,000 (60)	15,300 (65)	15,650 (69)	17,000 (74)
45		13,100 (35)	14,450 (48.5)	14,000 (56)	13,650 (61.5)	14,150 (66)	16,350 (72)
50		11,450 (24.5)	12,750 (42.5)	12,350 (52)	12,100 (58.5)	12,700 (63)	15,700 (69.5)
60			10,050 (28)	9,780 (42.5)	9,580 (51)	10,150 (57)	13,300 (65)
70				7,860 (30)	7,710 (42.5)	8,220 (50)	10,200 (60)
80					6,270 (32)	6,730 (42.5)	7,430 (55)
90					4,800 (15.5)	5,550 (33.5)	5,370 (49.5)
100						4,010 (21)	3,770 (43)
110							2,510 (36)
120							1,480 (27)
Minimum I	boom angle (deg.) for	indicated length (no	o load)			0	10
Maximum	boom length (ft.) at 0	degree boom angle	(no load)			1	112
NOTE: ()	Boom angles are	in degrees.					
*This capa	city is based on maxi	mum boom angle.					
+ 12 parts	s line required to li	ft this capacity (ι	ısing aux. boom n	iose).			
Boom Angle	35	61	74	87	99	112	
gio	26,400	10,150	6,240	3,420	2.440	1,680	

A6-829-014468A

Т	1 12 13 14 %	MODE	Α					
	T1	0	0	0	0	0	0	100
	T2	0	100	100	100	100	100	100
	Т3	0	0	25	50	75	100	100
	T4	0	0	25	50	75	100	100

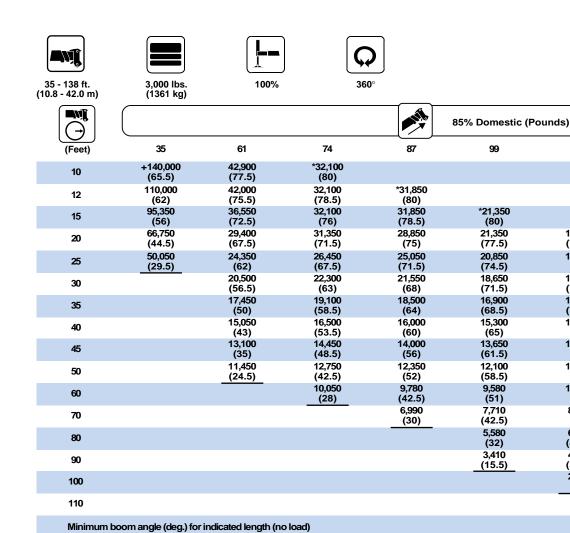
Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



A6-829-014469A

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

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



Maximum boom length (ft.) at 0 degree boom angle (no load)

NOTE: () Boom angles are in degrees.

*This capacity is based on maximum boom angle.

+ 12 parts line required to lift this capacity (using aux. boom nose).

Boom Angle	35	61	74	87	99	112	
0	26,400 (28.2)	10,150 (53.8)	6,240 (66.6)	3,420 (79.4)	2,440 (92.2)	1,680 (105)	

NOTE: () Reference radii are in feet.

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112

19,000

(79.5)

18,150

(77)

17,300

(74.5)

16,450

 $(7\dot{1}.5)$

15,650

(69)

14,150

(66)

12,700

(63)

10,150

(57)

8,220

(50)

6,660

(42.5)

4,480

(33.5)

2,770

(21)

0

138

19,000

(80)

18,300

(78.5)

17,650

(76.5)

17,000

(74)

16,350

(72)

15,700

(69.5)

11,700

(65)

8,220

(60)

5,740

(55)

3,900

(49.5) 2,470

(43) 1,340

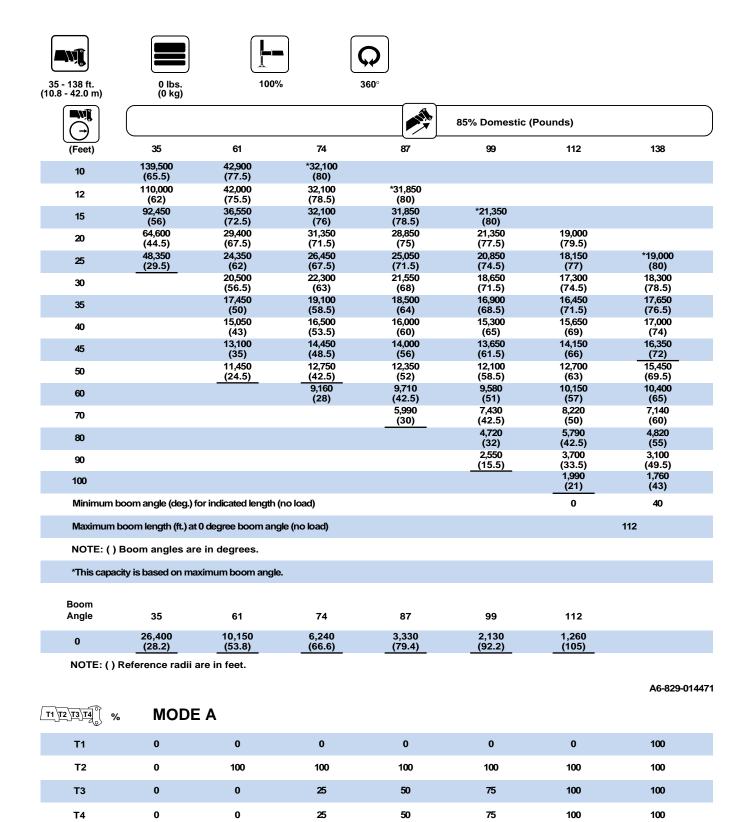
(36)

35

112

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

Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.



Regardless of counterweight and outrigger spread configuration, no deduct is required from the main boom charts for a stowed boom extension. However, the LMI system still monitors the effect of the stowed boom extension and will display a load value which will vary with changes in boom length and boom angle. To achieve maximum boom capacities, the boom extension must be removed from this crane.

TMS870 4 SECTION BOOM

Machine equipped as follows:

110 ft. full power 4 section boom 31 - 56 ft. (9.4 - 17 m) folding swingaway Main and auxiliary hoist w/rope Auxiliary boom nose Full fuel and hydraulics 445/65R22.5 front tires 315/80R22.5 rear tires 45 ton hook block (on carrier deck) 10 ton ball (on carrier deck) Counterweight configuration-see chart

AXLE/TIRE CAPACITY	FRONT	REAR	GVW
	49,200 lbs.	60.000 lbs.	109,200 lbs.
		(27 216 kg)	

Counterweight placement effects:

8,500 lbs. (3856 kg) cwt.	34,955 lbs.	57,525 lbs.	92,480 lbs.
on superstructure	(15 856 kg)	(26 093 kg)	(41 949 kg)
8,500 lbs. (3856 kg) cwt.	46,450 lbs.	46,030 lbs.	92,480 lbs.
on carrier	(21 070 kg)	(20 879 kg)	(41 949 kg)
3,000 lbs. (1361 kg) on S/S	42,393 lbs.	50,087 lbs.	92,480 lbs.
5,500 lbs. (2495 kg) on carrier	(19 229 kg)	(22 719 kg)	(41 949 kg)
5,500 lbs. (2495 kg) on S/S	39,012 lbs.	53,468 lbs.	92,480 lbs.
3,000 lbs. (1361 kg) on carrier	(17 696 kg)	(24 253 kg)	(41 949 kg)
5,500 lbs. (2495 kg) ONLY on superstructure	36,308 lbs.	53,172 lbs.	89,480 lbs.
	(16 469 kg)	(24 119 kg)	(40 588 kg)
5,500 lbs. (2495 kg) ONLY on carrier	43,746 lbs.	45,734 lbs.	89,480 lbs.
	(19 843 kg)	(20 745 kg)	(40 588 kg)
No cwt. on carrier or superstructure	38,788 lbs.	45,192 lbs.	83,980 lbs.
	(17 594 kg)	(20 499 kg)	(38 093 kg)

TTS870 4 SECTION BOOM

Machine equipped as follows:

110 ft. full power 4 section boom 31 - 56 ft. (9.4 - 17 m) folding swingaway Main and auxiliary hoist w/rope Auxiliary boom nose Full fuel and hydraulics 445/65R22.5 front and single rear tires 45 ton hook block (on carrier deck) 10 ton ball (on carrier deck) Counterweight configuration-see chart

AXLE/TIRE CAPACITY	FRONT	REAR	GVW
	49,200 lbs.	49,200 lbs.	98,400 lbs.
	(22 317 kg)	(22 317 kg)	(44 634 kg)

Counterweight placement effects:

8,500 lbs. (3856 kg) cwt.	46,450 lbs.	46,547 lbs.	92,997 lbs.
on superstructure	(21 070 kg)	(21 114 kg)	(42 183 kg)
5,500 lbs. (2495 kg) ONLY on carrier	43,746 lbs.	46,251 lbs.	89,997 lbs.
	(19 843 kg)	(20 979 kg)	(40 823 kg)
No cwt. on carrier or superstructure	38,788 lbs.	45,709 lbs.	84,497 lbs.
	(17 594 kg)	(20 734 kg)	(38 328 kg)

TMS/TTS870 WEIGHT EFFECTS REMOVE:

FRONT	REAR
-------	------

GVW

45 ton hookblock	-1,185 lbs.	+355 lbs.	-830 lbs.
	(-538 kg)	(161 kg)	(-376 kg)
31 - 56 ft. (9.4 - 17 m) swingaway	-1,970 lbs.	-267 lbs.	-2,237 lbs.
	(-894 kg)	(-121 kg)	(-1015 kg)
Auxiliary Nose	-234 lbs.	+107 lbs.	-127 lbs.
	(-106 kg)	(49 kg)	(-58 kg)
10 ton ball	-800 lbs.	+240 lbs.	-560 lbs.
	(-363 kg)	(109 kg)	(-254 kg)

SUBSTITUTE:

FRONT

REAR

GVW

70 ton hookblock w/o cheekplates	+1,205 lbs.	-361 lbs.	+844 lbs.
	(547 kg)	(-164 kg)	(383 kg)
31 ft. (9.4 m) swingaway	-417 lbs.	-264 lbs.	-681 lbs.
	(-189 kg)	(-120 kg)	(-309 kg)

Note: Weights will vary due to manufacturing tolerances.

TMS870 5 SECTION BOOM

Machine equipped as follows:

138 ft. full power 5 section boom
31 - 56 ft. (9.4 - 17 m) folding swingaway
Main and auxiliary hoist w/rope
Auxiliary boom nose
Full fuel and hydraulics
445/65R22.5 front tires
315/80R22.5 rear tires
45 ton hook block (on carrier deck)
10 ton ball (on carrier deck)
Counterweight configuration-see chart

AXLE/TIRE CAPACITY	FRONT	REAR	GVW
	(22 317 kg)	(27 216 kg)	(49 533 kg)

Counterweight placement effects:

8,500 lbs. (3856 kg) cwt.	37,739 lbs.	58,701 lbs.	96,440 lbs.
on superstructure	(17 118 kg)	(26 627 kg)	(43 745 kg)
8,500 lbs. (3856 kg) cwt.	49,234 lbs.	47,206 lbs.	96,440 lbs.
on carrier	(22 333 kg)	(21 413 kg)	(43 745 kg)
3,000 lbs. (1361 kg) on S/S	45,177 lbs.	51,263 lbs.	96,440 lbs.
5,500 lbs. (2495 kg) on carrier	(20 492 kg)	(23 253 kg)	(43 745 kg)
5,500 lbs. (2495 kg) on S/S	41,796 lbs.	54,644 lbs.	96,440 lbs.
3,000 lbs. (1361 kg) on carrier	(18 959 kg)	(24 787 kg)	(43 745 kg)
5,500 lbs. (2495 kg) ONLY on superstructure	39,092 lbs.	54,348 lbs.	93,440 lbs.
	(17 732 kg)	(24 652 kg)	(42 384 kg)
5,500 lbs. (2495 kg) ONLY on carrier	46,530 lbs.	46,910 lbs.	93,440 lbs.
	(21 106 kg)	(21 278 kg)	(42 384 kg)
No cwt. on carrier or superstructure	41,572 lbs.	46,368 lbs.	87,940 lbs.
	(18 857 kg)	(21 033 kg)	(39 890 kg)

TTS870 5 SECTION BOOM

Machine equipped as follows:

138 ft. full power 5 section boom 31 - 56 ft. (9.4 - 17 m) folding swingaway Main and auxiliary hoist w/rope Auxiliary boom nose Full fuel and hydraulics 445/65R22.5 front and single rear tires 45 ton hook block (on carrier deck) 10 ton ball (on carrier deck) Counterweight configuration-see chart

AXLE/TIRE CAPACITY	FRONT	REAR	GVW
	49,200 lbs. (22 317 kg)	49,200 lbs. (22 317 kg)	98,400 lbs. (44 634 kg)
	ν ο,	ν ο,	` 0,

Counterweight placement effects:

8,500 lbs. (3856 kg) cwt.	49,031 lbs.	47,665 lbs.	96,696 lbs.
on carrier	(22 240 kg)	(21 621 kg)	(43 861 kg)
5,500 lbs. (2495 kg) ONLY on carrier	46,327 lbs.	47,369 lbs.	93,696 lbs.
	(21 014 kg)	(21 487 kg)	(42 501 kg)
No cwt. on carrier or superstructure	41,369 lbs.	46,827 lbs.	88,196 lbs.
	(18 765 kg)	(21 241 kg)	(40 006 kg)

Note: Weights will vary due to manufacturing tolerances.

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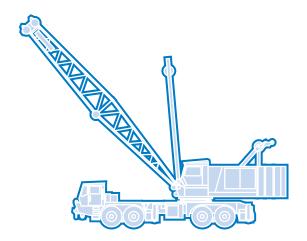
Rated Lifting Capacities

IMPORTANT NOTES:

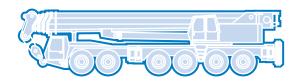
WARNING: THIS CHART IS ONLY A GUIDE.
The notes below are for illustration only and should not be relied upon to operate the crane.
The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

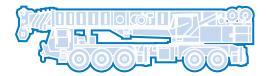
- 1. All rated loads have been tested to and meet minimum requirements of SAEJ1063 NOV93 Cantilevered Boom Crane Structures Method of Test, and do not exceed 85% of the tipping load on outriggers fully extended as determined by SAEJ765 OCT90 Crane Stability Test Code.
- 2. Capacities given do not include the weight of hook blocks, 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. Capacities appearing above the bold line are based on structural strength. Tipping should never be relied upon as a capacity limitation.
- 4. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats to spread the load to a larger bearing surface.
- 5. 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.
- 6. 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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