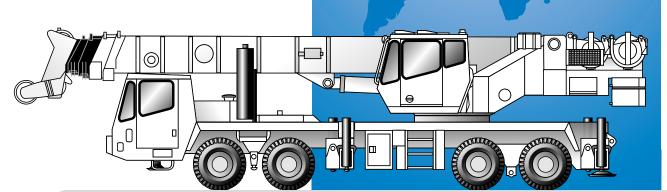




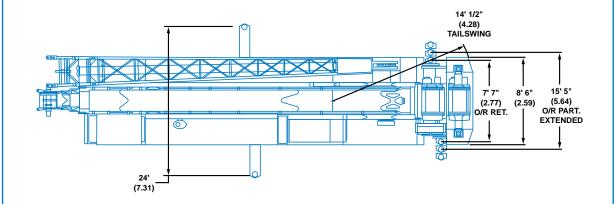
TMS870 TTS870

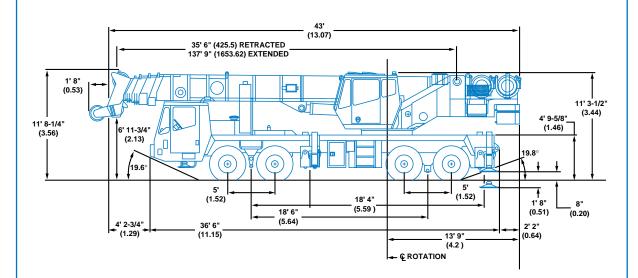


Truck Mounted Hydraulic Cranes



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









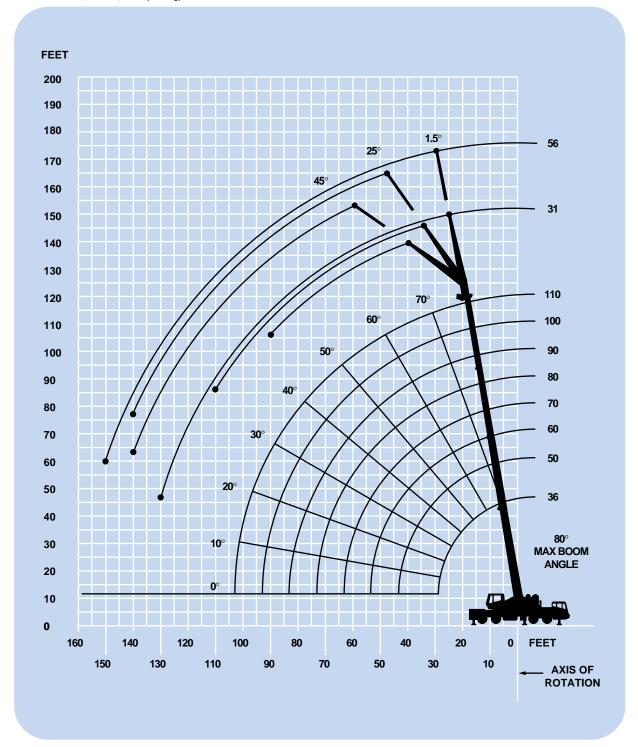


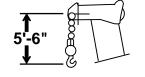
36 - 110 ft.

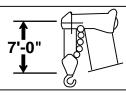
(10.9 - 33.5 m)

31 - 56 ft. (9.4 - 17 m)

8,500 lbs. (3856 kg)







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) Boom31 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

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.

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

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)

^{*}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

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.

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

TTS Axles

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

(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

Spring mounted tandem

Rear Solid mounted tandem with equalizing beam

and solid steel saddles.

TMS Tires

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

on aluminum disc wheels. 315/80R 22.5 Goodyear G286, tubeless, mounted

on aluminum disc wheels.

TTS Tires

Rear:

Front/Rear: 445/65R 22.5 Goodyear G286, tubeless, mounted on aluminum disc wheels.

TMS *Optional Tires

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

TTS *Optional Tires

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 helt door lock and electric window. 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)

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

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.

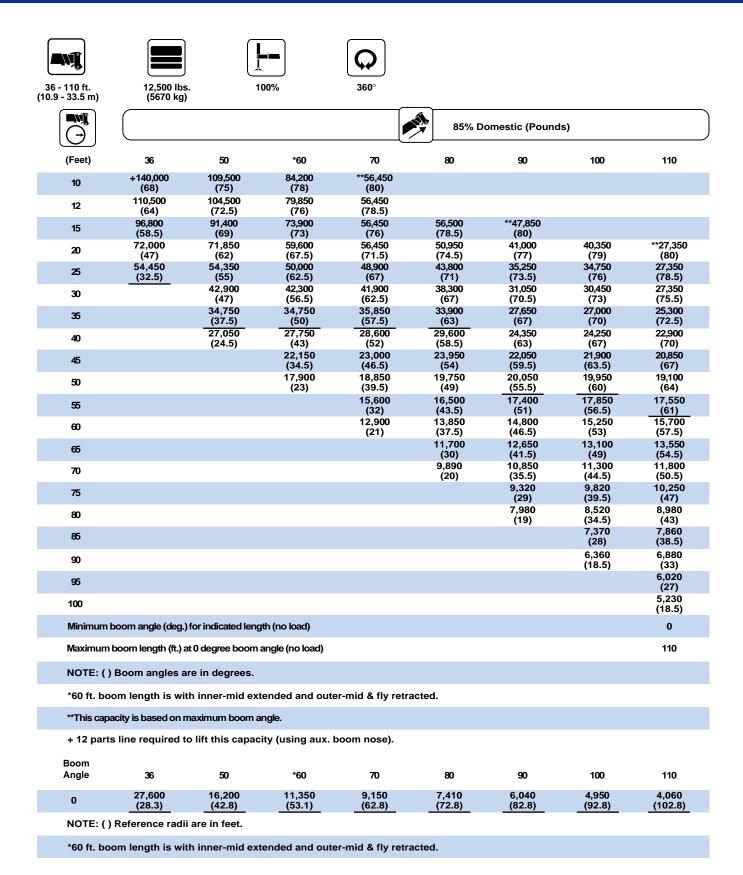


رت 110 ft.	18,000 lbs.	1	00%	360°					
- 33.5 m)	(8165 kg)		UU 76	360					
						85% D	omestic (Pound	s)	
(Feet)	36	50	*60	70		80	90	100	110
10	+140,000 (68)	109,500 (75)	84,200 (78)	**56,450 (80)					
12	110,500 (64)	104,500 (72.5)	79,850 (76)	56,450 (78.5)					
15	96,800 (58.5)	91,400 (69)	73,900 (73)	56,450 (76)		56,500 (78.5)	**47,850 (80)		
20	78,750	75,300	59,600	56,450		50,950	41,000	40,350	**27,35
	(47) 59,800	(62) 59,750	(67.5) 50,000	(71.5) 48,900		(74.5) 43,800	(77) 35,250	(79) 34,750	(80) 27,350
25	(32.5)	(55)	(62.5)	(67)		(71)	(73.5)	(76)	(78.5)
30		47,300 (47)	42,300 (56.5)	41,900 (62.5)		38,300 (67)	31,050 (70.5)	30,450 (73)	27,350 (75.5
35		38,550	36,950	36,400		33,900	27,650	27,000	25,300
		(37.5) 28.450	(50) 28,450	(57.5) 29,700		(63) 30,300	(67) 24,350	(70) 24,250	(72.5 22,900
40		(24.5)	(43)	(52)		(58.5)	(63)	(67)	(70)
45			23,400 (34.5)	24,650 (46.5)		25,550 (54)	22,050 (59.5)	21,900 (63.5)	20,850 (67)
50			19,450	20,700	:	21,600	20,050	19,950	19,10
			(23)	(39.5) 17,500		(49) 18.450	(55.5) 18,350	(60) 18,300	(64) 17,55
55				(32)		(43.5)	(51)	(56.5)	(61)
60				14,900 (21)		15,850 (37.5)	16,550 (46.5)	16,850 (53)	16,20 (57.5
65						13,650	14,350	14,900	15,05
						(30) 11,650	(41.5) 12,500	(49) 13,050	(54.5 13,50
70					_	(20)	(35.5)	(44.5)	(50.5
75							10,900 (29)	11,450 (39.5)	11,90 (47)
80							9,480	10,000	10,50
							(19)	(34.5) 8,790	(43) 9,260
85								(28)	(38.5
90								7,690 (18.5)	8,150 (33)
95								(10.0)	7,170
									(27) 6,280
100									(18.5
Minimum I	boom angle (deg.) f	or indicated leng	th (no load)						0
Maximum	boom length (ft.) at	0 degree boom	angle (no load)						110
NOTE: ()	Boom angles are	e in degrees.							
*60 ft. bo	om length is with	inner-mid ext	ended and oute	er-mid & fly re	tracted	l.			
**This capa	acity is based on ma	aximum boom a	ngle.						
+ 12 parts	s line required to	lift this capac	ity (using aux. I	ooom nose).					
Boom Angle	36	50	*60	70		80	90	100	110
0	27,600 (28.3)	16,200 (42.8)	11,350 (53.1)	9,150 (62.8)		7,410 (72.8)	6,040 (82.8)	4,950 (92.8)	4,060 (102.8

A6-829-015107

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





A6-829-015108

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

THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load charl, operating instructions and other instructional plates must be read and understood prior to operating the crane.



-110 ft.	8,500 lbs.	10	00%	360°				
9-33.5 m)	(3855 kg)							
					85%	Domestic (Pound	s)	
(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	(32.3)	42,900	42,300	41,900	38,300	31,050	30,450	27,350
		32,300	(56.5) 32,600	(62.5) 33.900	(67) 33,900	(70.5) 27,650	(73) 27,000	(75.5) 25,300
35		(37.5)	(Ś0)	(57.5)	(63)	(67)	(70)	(72.5)
40		24,300 (24.5)	25,450 (43)	26,500 (52)	27,450 (58.5)	24,350 (63)	24,250 (67)	22,900 (70)
45			20,350 (34.5)	21,200 (46.5)	22,150 (54)	22,050 (59.5)	21,900 (63.5)	20,850 (67)
50			16,300 (23)	17,250 (39.5)	18,150 (49)	19,100 (55.5)	19,450 (60)	19,100 (64)
55			(20)	14,150	15,050	15,950	16,300	16,700
60				(32) 11,600	(43.5) 12,600	(51) 13,400	(56.5) 13,800	(61) 14,150
				(21)	(37.5) 10,550	(46.5) 11,400	(53) 11,750	(57.5) 12,150
65					(30) 8,830	(41.5) 9,720	(49) 10,050	(54.5) 10,450
70					(20)	(35.5)	(44.5)	(50.5)
75						8,300 (29)	8,670 (39.5)	9,060 (47)
80						7,070 (19)	7,460 (34.5)	7,850 (43)
85						(- /	6,420 (28)	6,810 (38.5)
90							5,510 (18.5)	5,900 (33)
95							(10.3)	5,100
								(27) 4,390
100								(18.5)
	ooom angle (deg.) fo							0
	boom length (ft.) at (·					110
	om length is with			er-mid & fly retra	cted.			
•	acity is based on ma							
+ 12 parts	s line required to	int this capaci	ty (using aux. I	oom nose).				
Boom Angle	36	50	*60	70	80	90	100	110
0	27,600 (28.3)	16,200 (42.8)	11,350 (53.1)	9,150 (62.8)	7,410 (72.8)	6,040 (82.8)	4,950 (92.8)	4,010 (102.8)

A6-829-013911D

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



-110 ft. -33.5 m)	5,500 lbs. (2495 kg)	1	00%	360°					
						85% D	omestic (Pound	s)	
(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)		6,500 78.5)	**47,850 (80)		
20	69,900	69,750	59,600	56,450	50	0,950	41,000	40,350	**27,35
	(47) 52,750	(62) 52,650	(67.5) 50,000	(71.5) 48,900		74.5) 3,800	(77) 35,250	(79) 34,750	(80) 27,350
25	(32.5)	(55)	(62.5)	(67)		3,000 (71)	(73.5)	(76)	(78.5
30		40,300 (47)	40,100 (56.5)	41,100 (62.5)		8,300 (67)	31,050 (70.5)	30,450 (73)	27,350 (78.5
35		29,350	29,550	30,600		1,700	27,650	27,000	25,300
30		(37.5)	(50)	(57.5)		(63)	(67)	(70)	(72.5
40		21,850 (24.5)	22,500 (43)	23,600 (52)		4,750 58.5)	24,350 (63)	24,250 (67)	22,90 (70)
45		,	17,500	18,600	19	9,800	21,000	21,500	20,85
			(34.5) 13,700	(46.5) 14,850		(54) 6,100	(59.5) 17,100	(63.5) 17,650	(67) 18,150
50			(23)	(39.5)		(49)	(55.5)	(6 0)	(6 4)
55				11,950 (32)		3,200 43.5)	14,100 (51)	14,650 (56.5)	15,150 (61)
60				9,590		0,900	11,750	12,250	12,80
w				(21)		37.5)	(46.5)	(53)	(57.5
65),010 (30)	9,870 (41.5)	10,350 (49)	10,900 (54.5
70						7,380	8,290	8,790	9,300
						(20)	(35.5) 6,960	(44.5) 7,450	(50.5 7,960
7 5							(29)	(39.5)	(47)
80							5,820 (19)	6,310 (34.5)	6,820 (43)
85							()	5,330	5,830
								(28) 4,470	(38.5 4,970
90								(18.5)	(33)
95									4,220
									(27) 3,540
100									(18.5
Minimum	boom angle (deg.) 1	for indicated leng	th (no load)						0
Maximum	boom length (ft.) a	t 0 degree boom	angle (no load)						110
*60 ft. boo	m length is with inr	ner-mid extended	d and outer-mid &	& fly retracted.					
**This cap	acity is based on m	naximum boom a	ingle.						
+ 12 part	s line required to	lift this capac	ity (using aux.	boom nose).					
Boom Angle	36	50	*60	70		80	90	100	110
0	27,600 (28.3)	16,200 (42.8)	11,350 (53.1)	8,430 (62.8)		72.8)	5,220 (82.8)	4,010 (92.8)	3,180 (102.8

A6-829-013912D

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.

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.



				44					
·110 ft. -33.5 m)	3,000 lbs (1361 kg)		00%	360°					
						85% D	omestic (Pound	ls)	
(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	96,750 (58.5)	91,400 (69)	73,900 (73)	56,450 (76)		6,500 78.5)	**47,850 (80)		
20	68,100 (47)	67,950 (62)	59,600 (67.5)	56,450 (71.5)		0,950 74.5)	41,000 (77)	40,350 (79)	**27,35 (80)
25	51,300 (32.5)	51,250 (55)	50,000 (62.5)	48,900 (67)		3,800 (71)	35,250 (73.5)	34,750 (76)	27,350 (78.5)
30		37,950 (47)	36,750 (56.5)	37,700 (62.5)	3	8,300 (67)	31,050 (70.5)	30,450 (73)	27,350 (75.5)
35		27,150 (37.5)	26,950 (50)	28,000 (57.5)	2	9,100 (63)	27,650 (67)	27,000 (70)	25,300 (72.5)
40		20,100 (24.5)	20,500 (43)	21,450 (52)	2	2,500 58.5)	23,600 (63)	24,200 (67)	22,900 (70)
45			16,050 (34.5)	16,900 (46.5)	1	7,900 (54)	18,950 (59.5)	19,450 (63.5)	19,950 (67)
50			12,750 (23)	13,600 (39.5)	1	4,500 (49)	15,500 (55.5)	15,900 (60)	16,350 (64)
55			(,	11,000 (32)	1	1,900 43.5)	12,850 (51)	13,250 (56.5)	13,600 (61)
60				9,000 (21)		9,880 37.5)	10,750 (46.5)	11,100 (53)	11,450 (57.5)
65				(= .)		8,210 (30)	9,090 (41.5)	9,390 (49)	9,700 (54.5)
70					(6,830 (20)	7,690 (35.5)	7,960 (44.5)	8,240 (50.5)
75						(=0)	6,510 (29)	6,750 (39.5)	7,010 (47)
80							5,510 (19)	5,730 (34.5)	5,960 (43)
85							()	4,840 (28)	5,060 (38.5)
90								4,070 (18.5)	4,270 (33)
95								(1515)	3,580 (27)
100									2,960 (18.5)
Minimum b	ooom angle (deg.)	for indicated leng	th (no load)						0
Maximum	boom length (ft.) a	t 0 degree boom	angle (no load)						110
*60 ft. boor	m length is with in	ner-mid extended	and outer-mid &	fly retracted.					
**This capa	acity is based on m	naximum boom a	ngle.						
+ 12 parts	s line required to	o lift this capaci	ty (using aux. k	ooom nose).					
Boom									
Angle	36	50	*60	70	_	80	90	100	110
0	27,600 (28.3)	16,200 (42.8)	11,000 (53.1)	7,990 (62.8)		5,110 72.8)	4,970 (82.8)	3,650 (92.8)	2,630 (102.8

A6-829-013948D

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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.

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



-110 ft. 9-33.5 m)	0 lbs. (0 kg)	1	00%	360°				
					85	5% Domestic (Pound	ls)	
(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	93,850 (58.5)	91,400 (69)	73,900 (73)	56,450 (76)	56,500 (78.5)	**47,850 (80)		
20	65,950	65,800	59,600	56,450	50,950	41,000	40,350	**27,350
	(47) 49,650	(62) 49,550	49,300	(71.5) 48,900	(74.5) 43,800	(77) 35,250	(79) 34,750	(80) 27,350
25	(32.5)	49,550 (55)	(62.5)	46,900 (67)	43,600 (71)	(73.5)	(76)	(78.5)
30		34,800	33,900	35,350	36,500	31,050	30,450	27,350
		(47) 24,500	(56.5) 25,200	(62.5) 26,200	(67) 27,200	(70.5) 27,650	(73) 27,000	(75.5) 25,300
35		(37.5)	(50)	(57.5)	(63)	(67)	(70)	(72.5)
40		17,900 (24.5)	19,050 (43)	19,950 (52)	21,000 (58.5)	21,950 (63)	22,350 (67)	22,750 (70)
45		(24.5)	14,550	15,500	16,550	17,400	17,800	18,200
- ∿			(34.5)	(46.5)	(54)	(59.5)	(63.5)	(67)
50			11,100 (23)	12,150 (39.5)	13,250 (49)	14,050 (55.5)	14,450 (60)	14,850 (64)
55				9,590	10,650	11,500	11,900	12,300
				(32) 7,430	(43.5) 8,640	(51) 9,510	(56.5) 9,880	(61) 10,250
60				(21)	(37.5)	(46.5)	(53)	(57.5)
65					6,940 (30)	7,870 (41.5)	8,230 (49)	8,620 (54.5)
70					5,490	6,510	6,870	7,250
70					(20)	(35.5)	(44.5)	(50.5)
75						5,370 (29)	5,730 (39.5)	6,100 (47)
80						4,400	4,750	5,120
						(19)	(34.5) 3,910	(43) 4,270
85							(28)	(38.5)
90							3,170	3,530
OE.							(18.5)	(33) 2,890
95								(27)
100								2,310 (18.5)
Minimum	boom angle (deg.)	for indicated leng	th (no load)					0
Maximum	boom length (ft.) a	at 0 degree boom	angle (no load)					110
*60 ft. boo	m length is with ir	nner-mid extended	l and outer-mid &	fly retracted.				
**This cap	acity is based on 1	maximum boom a	ngle.					
+ 12 part	s line required t	o lift this capac	ity (using aux.	boom nose).				
Boom								
Angle	36	50	*60	70	80	90	100	110
0	27,600 (28.3)	15,000 (42.8)	9,290 (53.1)	6,380 (62.8)	4,760 (72.8)	3,880 (82.8)	2,770 (92.8)	1,990 (102.8)

A6-829-013913D

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.

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.



				$[\mathbf{Q}]$				
6 -110 ft. 9-33.5 m)	8,500 lbs. (3855 kg)	_	50%	360°				
					SAEJ	289 APR81 Dor	nestic (Pounds)
(Feet)	36	50	**60	70	80	90	100	110
10	92,500 (68)	92,250 (75)	84,200 (78)	*56,450 (80)				
12	81,100 (64)	80,850 (72.5)	79,850 (76)	56,450 (78.5)				
15	67,850 (58.5)	67,650 (69)	67,500 (73)	56,450 (76)	56,500 (78.5)	*47,850 (80)		
20	47,850 (47)	46,450 (62)	43,750 (67.5)	43,300 (71.5)	42,600 (74.5)	41,000 (77)	40,350 (79)	*27,350 (80)
25	30,600 (32.5)	30,400 (55)	30,300 (62.5)	30,800 (67)	30,800 (71)	30,550 (73.5)	30,200 (76)	27,350 (78.5)
30	,	20,900 (47)	20,700 (56.5)	21,400 (62.5)	22,200 (67)	23,000 (70.5)	23,300 (73)	23,150 (75.5)
35		14,800 (37.5)	14,600 (50)	15,450 (57.5)	16,350 (63)	17,250 (67)	17,800 (70)	18,350 (72.5)
40		10,500 (24.5)	10,400 (43)	11,350 (52)	12,350 (58.5)	13,350 (63)	13,800 (67)	14,300 (70)
45		(=,	7,250 (34.5)	8,350 (46.5)	9,400 (54)	10,450 (59.5)	10,900 (63.5)	11,350 (67)
50			4,810 (23)	6,010 (39.5)	7,150 (49)	8,270 (55.5)	8,670 (60)	9,090 (64)
55			(20)	4,120 (32)	5,380 (43.5)	6,530 (51)	6,920 (56.5)	7,310 (61)
60				2,590 (21)	3,880 (37.5)	5,130 (46.5)	5,500 (53)	5,870 (57.5)
65				(=-)	2,640 (30)	3,940 (41.5)	4,320 (49)	4,680 (54.5)
70					1,600 (20)	2,920 (35.5)	3,330 (44.5)	3,690 (50.5)
75					(-/	2,050 (29)	2,450 (39.5)	2,840 (47)
80						1,310 (19)	1,700 (34.5)	2,080 (43)
85						,	1,040 (28)	1,420 (38.5)
Minimum	boom angle (deg.) f	or indicated len	gth (no load)			18	27	37
Maximum	n boom length (ft.) at	0 degree boon	n angle (no load)				8	80
*This cap	acity is based upon I	maximum obta	inable boom angle	<u>).</u>				
**60 ft. bo	om length is with in	ner-mid extend	led and outer-mid	& fly retracted.				
Boom Angle	36	50	**60	70	80			
0	23,450 (28.3)	8,610 (42.8)	3,530 (53.1)	1,850 (62.8)	1,090 (72.8)			

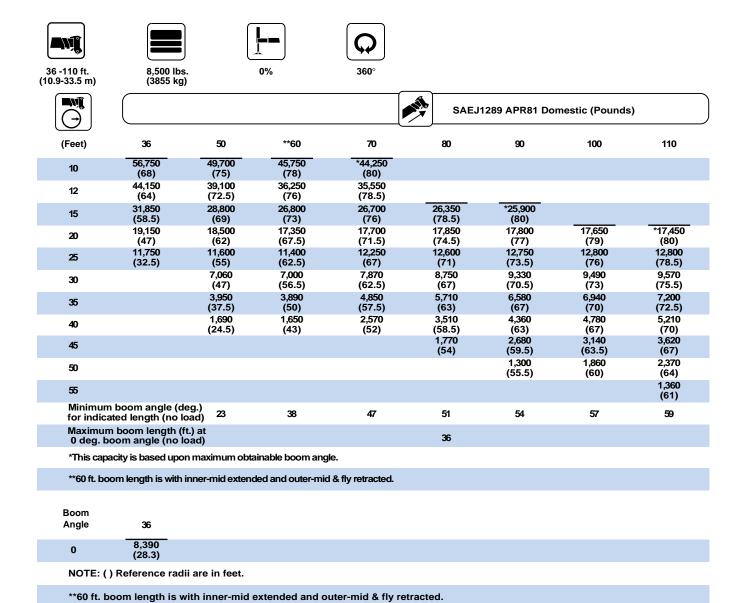
**60 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

A6-829-014188A

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.

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A6-829-014192A

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.





36 - 110 ft. (10.9 - 33.5 m)



18,000 lbs. (8165 kg)



				85% Do	mestic (Pounds)	
	31 FT. L	ENGTH (SWINGAWA	Y BASE)	56 FT. L	ENGTH (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	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)	``	
inimum boom angle g.) for indicated length	2	25	45	2	25	45
ximum boom length at 0 deg. boom angle		110			110	

*This capacity is based on maximum boom angle.

A6-829-015081

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36 - 110 ft. (10.9 - 33.5 m)



6 ft. 12,500 lbs. 7 m) (5670 kg)





Q

1.5° (12,900 (80) 12,900 (78.5) 12,900 (76.5) 12,750 (74.5) 12,350 (72.5) 11,500 (70.5)	8,340 (79.5) 8,020 (77.5) 7,730 (76) 7,390	*6,370 (80) 6,300 (79)	56 FT. LENGT 1.5° 8,220 (79.5) 8,220 (78) 8,220	TH (SWINGAWAY BA	ASE & FLY) 45°
12,900 (80) 12,900 (78.5) 12,900 (76.5) 12,750 (74.5) 12,350 (72.5) 11,500 (70.5)	8,340 (79.5) 8,020 (77.5) 7,730 (76)	*6,370 (80) 6,300	8,220 (79.5) 8,220 (78)	25°	45°
(80) 12,900 (78.5) 12,900 (76.5) 12,750 (74.5) 12,350 (72.5) 11,500 (70.5)	(79.5) 8,020 (77.5) 7,730 (76)	(80) 6,300	(79.5) 8,220 (78)		
(78.5) 12,900 (76.5) 12,750 (74.5) 12,350 (72.5) 11,500 (70.5)	(79.5) 8,020 (77.5) 7,730 (76)	(80) 6,300	(79.5) 8,220 (78)		
(76.5) 12,750 (74.5) 12,350 (72.5) 11,500 (70.5)	(79.5) 8,020 (77.5) 7,730 (76)	(80) 6,300	(79.5) 8,220 (78)		
(74.5) 12,350 (72.5) 11,500 (70.5)	(77.5) 7,730 (76)	(80) 6,300	(78)		
(72.5) 11,500 (70.5)	(76)		8,220		
(70.5)	7 200	\· -/	(7 6.5)		
10.050	7,390 (74)	6,250 (77)	8,220 (75)	*4,780 (80)	
10,950 (68.5)	7,130 (72)	6,190 (74.5)	8,220 (74)	4,640 (79.5)	
10,400 (66.5)	6,870 (69.5)	6,120 (72)	8,220 (72)	4,490 (78)	
9,960 (64)	6,660 (67.5)	6,090 (69.5)	8,220 (70)	4,340 (76)	*3,770 (80)
9,480 (61.5)	6,450 (65)	6,050 (67)	8,080 (68)	4,190 (74)	3,740 (78)
9,060	6,280	6,050	7,650	4,070	3,720 (76)
8,630 (56.5)	6,110 (60)	6,050 (62)	7,220 (64)	3,940 (70)	3,700 (73.5)
8,270 (54)	5,970 (57.5)	6,050 (59)	6,870 (62)	3,830 (67.5)	3,700 (71.5)
7,900 (51)	5,840 (54.5)	6,050 (56)	6,530 (60)	3,730 (65.5)	3,700 (69)
7,120 (48.5)	5,740 (51.5)		6,130 (58)	3,640 (63.5)	3,700 (66.5)
6,320 (45.5)	5,650 (48.5)		5,730 (55.5)	3,550 (61)	3,700 (64)
4,970 (38.5)	5,210 (41.5)		5,060 (51)	3,420 (56)	3,480 (59)
3,860			4,510	3,320	
2,950 (18.5)			3,630	3,280	
,			2,850 (33.5)	2,320 (37.5)	
			2,180 (24.5)		
2	25	45	2	25	45
(0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(66.5) 9,960 (64) 9,480 (61.5) 9,060 (59) 8,630 (56.5) 8,270 (54) 7,900 (51) 7,120 (48.5) 6,320 6,45.5) 4,970 (38.5) 3,860 (30.5) 2,950 (18.5)	(66.5) (69.5) 9,960 (64) (67.5) 9,480 6,450 (61.5) (65) 9,060 6,280 (59) (62.5) 8,630 6,110 (56.5) (60) 8,270 5,970 (54) (57.5) 7,900 5,840 (51) (54.5) 7,120 5,740 (48.5) (51.5) 6,320 5,650 (45.5) (48.5) 4,970 5,210 (38.5) (41.5) 3,860 (30.5) 2,950 (18.5)	(66.5) (69.5) (72) 9,960 6,660 6,090 (64) (67.5) (69.5) 9,480 6,450 6,050 (61.5) (65) (67) 9,060 6,280 6,050 (59) (62.5) (64.5) 8,630 6,110 6,050 (56.5) (60) (62) 8,270 5,970 6,050 (54) (57.5) (59) 7,900 5,840 6,050 (51) (54.5) (51.5) 6,320 5,650 (44.5) (48.5) 4,970 5,210 (38.5) 3,860 (30.5) 2,950 (18.5)	(66.5) (69.5) (72) (72) 9,960 6,660 6,090 8,220 (64) (67.5) (69.5) (70) 9,480 6,450 6,050 8,080 (61.5) (65) (67) (68) 9,060 6,280 6,050 7,650 (59) (62.5) (64.5) (66) 8,630 6,110 6,050 7,220 (56.5) (60) (62) (64) 8,270 5,970 6,050 6,870 (54) (57.5) (59) (62) 7,900 5,840 6,050 6,530 (51) (54.5) (56) (60) (51) (54.5) (56) (60) (7,120 5,740 6,130 (48.5) (48.5) (51.5) (58) 6,320 5,650 5,730 (45.5) (48.5) (55.5) 4,970 5,210 5,060 (38.5) (41.5) (55) (38.5) (33.5)	(66.5) (69.5) (72) (72) (78) 9,960 6,660 6,090 8,220 4,340 (64) (67.5) (69.5) (70) (76 9,480 6,450 6,050 8,080 4,190 (61.5) (65) (67) (68) (74) 9,060 6,280 6,050 7,650 4,070 (59) (62.5) (64.5) (66) (72) 8,630 6,110 6,050 7,220 3,940 (56.5) (60) (62) (64) (70) 8,270 5,970 6,050 6,870 3,830 (54) (57.5) (59) (62) (67.5) 7,900 5,840 6,050 6,530 3,730 (51) (54.5) (56) (60) (65.5) 7,120 5,740 6,130 3,640 (48.5) (51.5) (58) (55.5) (61) 4,970 5,210 5

*This capacity is based on maximum boom angle.

A6-829-015082





36 - 110 ft. (10.9 - 33.5 m)



6 ft. 8,500 lbs. 7 m) (3855 kg)





					85% Domes	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	8,630 (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)	(11.0)			3,780 (46)	3,320 (51)	
130	2,240 (18.5)				2,920 (40)	3,280 (45)	
140	()				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

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36 - 110 ft. (10.9 - 33.5 m)



t. 5,500 lbs. (2495 kg)





					85% Domest	ic (Pounds)	
	31 FT. L	ENGTH (SWINGAWA)	BASE)	Ī	56 FT. LENG	TH (SWINGAWAY BA	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	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)	(1110)			3,210 (46)	3,320 (51)	(55)
130	1,710 (18.5)				2,390 (40)	2,780 (45)	
140	(10.0)				1,710 (33.5)	1,940 (37.5)	
150					1,130	(37.3)	
Minimum boom angle eg.) for indicated length	2	25	45		(24.5) 14	25	45
Maximum boom length		110				110	

*This capacity is based on maximum boom angle.

A6-829-015084





36 - 110 ft. (10.9 - 33.5 m)









				85% Dome	estic (Pounds)	
	31 FT. LE	ENGTH (SWINGAWA			IGTH (SWINGAWAY BA	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	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)	
imum boom angle for indicated length	2	25	45	23	26	45
mum boom length 0 deg. boom angle		110			100	

*This capacity is based on maximum boom angle.

A6-829-015085

19





36 - 110 10.9 - 33.









				85% Domest	ic (Pounds)	
	31 FT. LI	ENGTH (SWINGAWA	Y 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)	
mum boom angle for indicated length	16	25	45	31	32	45
mum boom length 0 deg. boom angle		100			90	

*This capacity is based on maximum boom angle.

A6-829-015086



Working Range







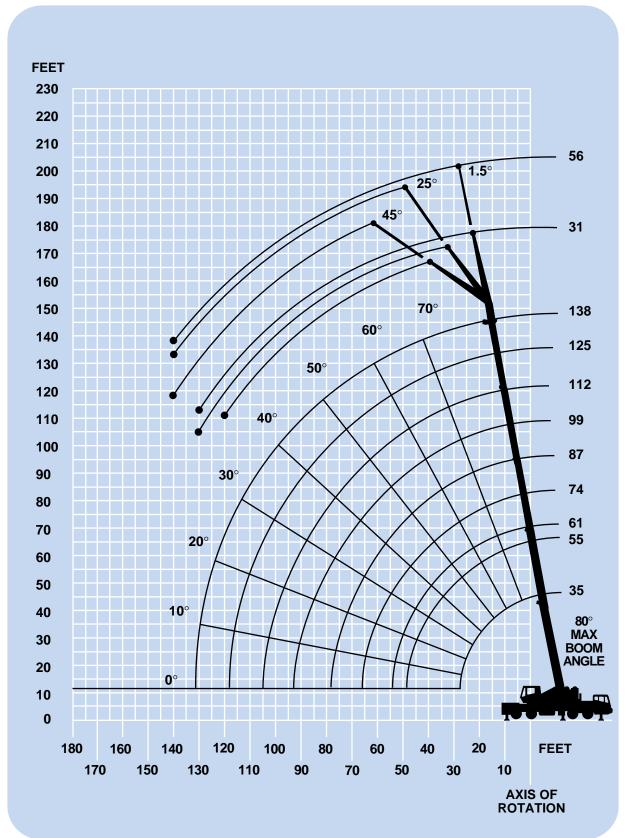




35-138 ft. (10.8-42.0 m)

31-56 ft.

(3856 kg)





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.



				(C)					
35 - 138 ft. 10.8 - 42.0 m)	18,000 (8165		100%	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	79,100 (70)	69,850	51,650 (76)	43,300	*32,100 (80)			
20	(56) 77,250	70,850	(72.5) 59,850	44,350	(78.5) 39,550	(80) 32,100	30,050	*20,150	
25	(44.5) 58,500	(64.5) 58,200	(67.5) 52,200	(71.5) 38,750	(75) 33,800	(77.5) 32,100	(79.5) 30,050	(80) 20,150	*19,000
	(29.5)	(58) 45,850	(62) 46,200	(67.5) 34,200	(71.5) 29,200	(74.5) 30,200	(77) 27,350	(79) 19,100	(80) 18,300
30		(51) 37.100	(56.5) 37,500	(63) 29,050	(68) 25.800	(71.5) 26,600	(74.5) 24,300	(76.5) 18,100	(78.5) 17,650
35		(43.5)	(50)	(58.5)	(64)	(68.5)	(71.5)	(74)	(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			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					8,830 (30)	10,150 (42.5)	10,700 (50)	10,700 (56)	11,050 (60)
80						7,160 (32)	8,240 (42.5)	8,660 (49.5)	9,120 (55)
90						4,800 (15.5)	5,870	6,700 (43)	7,380
100						(13.3)	(33.5) 4,010	4,840	(49.5) 5,500
110							(21)	(35) 3,340	(43) 4,000
120								(24.5)	(36) 2,760
									(27) 1,720
130									(9.5)
Minimum b	oom angle (de	g.) for indicated	length (no load						9
			oom angle (no k	oad)					125
NOTE: ()	Boom angles	are in degree	es.						
*This capac	city is based on	maximum boo	m angle.						
+ 12 parts	line required	d to lift this ca	pacity (using	aux. boom nos	e).				
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)	

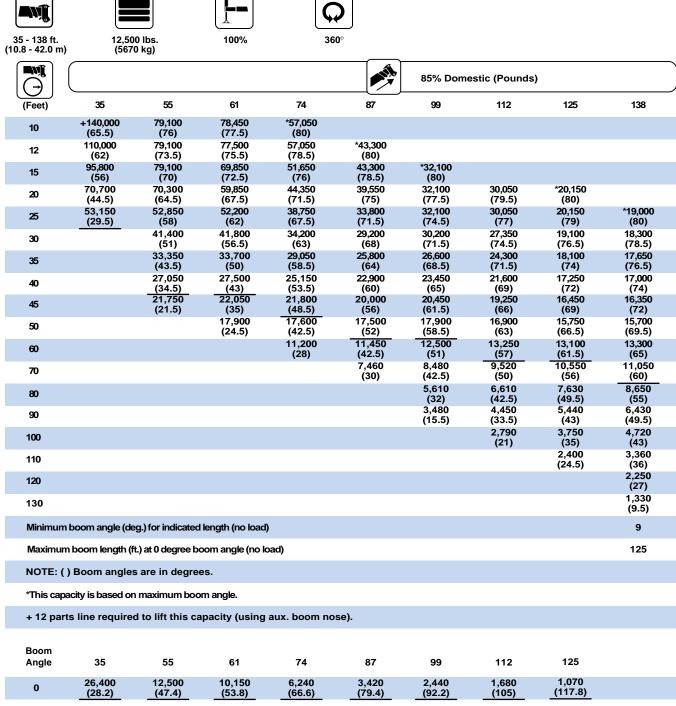
A6-829-014914

T1 T2 T3 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
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

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A6-829-014915

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
	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

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.



				Ç					
35 - 138 ft. (10.8 - 42.0 m)	8,500 (3856	lbs. kg)	100%	36	0°				
						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	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	52,200	38,750	33,800	32,100	30,050	20,150	*19,000 (80)
30	(29.5)	(58) 41,400	(62) 41,800	(67.5) 34,200	(71.5) 29,200	(74.5) 30,200	(79.5) 27,350	(79) 19,100	18,300
35		(51) 31,850	(56.5) 31,950	(63) 29,050	(68) 25,800	(71.5) 26,600	(74.5) 24,300	(76.5) 18,100	(78.5) 17,650
40		(43.5) 24,700	(50) 24,750	(58.5) 24,800	(64) 22,900	(68.5) 23,450	(71.5) 21,600	(74) 17,250	(76.5) 17,000
45		(34.5) 19,550	(43) 19,550	(53.5) 19,750	(60) 19,500	(65) 20,450	(69) 19,250	(72) 16,450	(74) 16,350
		(21.5)	(35) 15,700	(48.5) 15,400	(56) 15,350	(61.5) 16.550	(66) 16,900	(69) 15,750	(72) 15,700
50			(24.5)	(42.5) 9,490	(52) 9,730	(58.5) 10,800	(63) 11,900	(66.5)	(69.5) 13,300
60				(28)	(42.5) 6,020	(51) 7.040	(57) 8,080	(61.5) 9,130	(65)
70					(30)	(42.5)	(50)	(56)	(6 0)
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 I	ooom angle (de	g.) for indicated	length (no load)					5	10
Maximum	boom length (ft	t.) at 0 degree bo	oom angle (no lo	oad)				1	12
NOTE: ()	Boom angles	are in degree	es.						
*This capa	city is based on	maximum boo	m angle.						
+ 12 parts	s 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.

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				(,					
35 - 138 ft. (10.8 - 42.0 m)	5,500 (2495		100%	360	D°				
						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	(2010)	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	29,500	29,050	25,800	26,600	24,300	18,100	17,650
40		(43.5) 22,750	(50) 22,500	(58.5) 22,850	<u>(64)</u> 22,750	(68.5) 23,450	(71.5) 21,600	(74) 17,250	(76.5) 17,000
40		(34.5) 17,650	(43) 17,650	(53.5) 17,850	(60) 17,600	(65) 18.800	(69) 19,250	(72) 16,450	(74) 16,350
45		(21.5)	(35)	(48.5)	(56)	(61.5)	(66)	(69)	(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				(23)	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						(13.3)	1,130	2,090	3,060
							(21)	(35)	(43) 1,870
110									(36)
Minimum I	boom angle (de	g.) for indicated	length (no load)				20	27	33
Maximum	boom length (ft.	.) at 0 degree bo	oom angle (no lo	ad)				99	
NOTE: ()	Boom angles	are in degre	es.						
*This capa	city is based on	maximum boo	m angle.						
+ 12 parts	s line required	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.



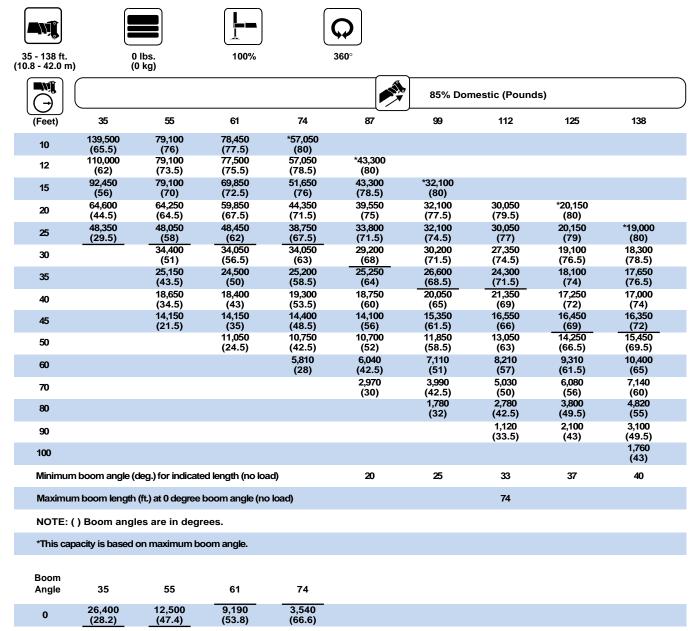
1-42.0 m) (1361 kg) 140.000						Q				
85% Domestic (Pounds) 860 (90) 86	35 - 138 f).8 - 42.0			100%	:	360°				
0							85% Dom	estic (Pounds)	
10 (65.5) (76) (77.5) (80) (77.5) (80) (77.5) (75.5) (78.5) (78.5) (80) (79.5) (79.5) (79.5) (78.5) (80) (79.5) (79.5) (79.5) (78.5) (80) (79.5) (79.5) (79.5) (79.5) (78.5) (80) (79.5) (79.5) (79.5) (79.5) (79.5) (79.5) (80) (79.5) (79.5) (79.5) (80) (79.5) (79.5) (79.5) (80) (79.5) (79.5) (79.5) (80) (79.5) (79.5) (79.5) (80) (79.5) (79.5) (79.5) (80) (79.5) (79.	(Feet)	35	55	61	74	87	99	112	125	138
2 (62) (73.5) (75.5) (78.5) (80) 5 95.550 79.100 69.850 51.650 (43.300 *32.100 30.050 *20.150 656 (56) (70) (72.5) (76) (78.5) (80) 5 66.750 66.400 59.850 44.350 39.550 32.100 30.050 20.150 (44.5) (64.5) (67.5) (71.5) (75) (77.5) (77.5) (79.5) (80) 5 50.050 49.750 50.150 38.750 33.800 32.100 30.050 20.150 *19.00 (29.5) (58) (62) (67.5) (71.5) (71.5) (74.5) (77) (79) (80) 6 (73.300 37.200 34.200 29.200 30.200 27.350 19.100 18.30 (51) (51) (56.5) (63) (68) (71.5) (74.5) (76.5) (78.5) (78.5) (79.5	10									
5	12									
66,750	15	95,350	79,100	69,850	51,650	43,300				
(44.5) (64.5) (67.5) (71.5) (73.5) (77.5) (79.5) (80) 5 50,050 49,750 50,150 38,750 77.5) (74.5) (77.5) (74.5) (77.7) (79) (80) 10 37,300 37,200 34,200 29,200 30,200 27,350 19,100 18,30 10 (51) (56.5) (63) (68) (71.5) (74.5) (76.5) (78.5) 27,7600 27,250 27,500 25,800 26,600 24,300 18,100 17,65 20,900 20,650 21,250 21,000 22,300 22,300 14,600 17,250 17,000 (34.5) (43.5) (43) (53.5) (60) (65) (69) (72) (74) (76.5) (74.5) (76.5)	20	66,750	66,400	59,850	44,350	39,550	32,100			
(29.5) (58) (62) (67.5) (71.5) (74.5) (77.5) (79) (80) (77.5) (74.5) (77.5) (74.5) (75.5) (74.5) (75.5) (74.5) (75.5) (74.5) (75.5) (74.5) (75.5) (76.5) (78						• •			• •	*19,000
(51) (56.5) (63) (63) (68) (71.5) (74.5) (76.5) (78.5) 5	25									(80)
(31) (66.5) (63) (71.5) (74.5)	30									18,300
(43.5) (50) (58.5) (64) (68.5) (71.5) (74) (76.5) 0 20,900 20,650 21,250 21,000 22,300 21,600 17,250 17,00					_ <u>-`-</u> _				• •	(78.5) 17,650
(34.5) (43) (53.5) (60) (65) (69) (72) (74) (74) (75) (16,050 16,050 16,000 17,250 18,450 16,450 16,350 (21.5) (35) (48.5) (56) (61.5) (66) (69) (72) (72) (73) (74) (74) (74) (74) (74) (74) (74) (74	35		(43.5)	(5 0)	(58.5)	(6 4)	(68.5)	(71.5)	(74)	(76.5)
16,050 16,050 16,050 16,300 16,000 17,250 18,450 16,450 16,350 (21.5) (21.5) (35) (48.5) (56) (61.5) (66) (69) (72) (60) (21.5) (22.5) (24.5) (24.5) (24.5) (24.5) (24.5) (24.5) (24.5) (24.5) (24.5) (28) (28) (28.5) (28) (28.5) (29.5)	40									17,000 (74)
12,650 12,400 12,350 13,500 14,700 15,750 15,700 (66.5) (69.5) (6	45		16,050	16,050	16,300	16,000	17,250	18,450	16,450	16,350
(24.5) (42.5) (52) (58.5) (68.5) (69.	50		(=110)	12,650		12,350				15,700
(28) (42.5) (51) (57) (61.5) (65) (65) (60) (30) (42.5) (50) (50) (56) (60) (30) (42.5) (50) (50) (50) (50) (50) (50) (50) (5	50			(24.5)			• •		_ <u> </u>	(69.5)
4,050	60									(65)
(30) (42.5) (50) (50) (50) (50) (50) (50) (50) (5	70				,	4,050	5,070	6,110	7,160	8,220
(32) (42.5) (49.5) (55) (39.0) (33.5) (49.5) (55) (30.0) (33.5) (43.0) (49.5) (30.0) (33.5) (43.0) (49.5) (35.0) (43.0) (49.5) (35.0) (43.0) (49.5) (35.0) (43.0) (49.5) (35.0) (43.0) (49.5) (49.5) (35.0) (49.5) (49.5) (35.0) (49.5) (49.5) (35.0) (49.5) (49.5) (49.5) (49.5) (35.0) (49.5) (. •					(30)				
1,920 2,900 3,900 (33.5) (43) (49.5) (49.5) (43.5)	80									(55)
(33.5) (43) (49.5) (49.5)	90						. ,	1,920		3,900
(35) (43) 1,34((36) 1								(33.5)		(49.5)
(36) Ilinimum boom angle (deg.) for indicated length (no load) 20 27 32 35 Ilaximum boom length (ft.) at 0 degree boom angle (no load) 87 OTE: () 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).	100									(43)
laximum boom length (ft.) at 0 degree boom angle (no load) OTE: () 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). oom ngle 35 55 61 74 87 0 26,400 12,500 10,150 4,680 1,860	110									1,340 (36)
OTE: () 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). oom ngle 35 55 61 74 87 0 26,400 12,500 10,150 4,680 1,860	Minimu	m boom angle (deg.) for indicate	ed length (no load)		20	27	32	35
This capacity is based on maximum boom angle. 12 parts line required to lift this capacity (using aux. boom nose). 25 poom	Maximu	ım boom length	(ft.) at 0 degree I	ooom angle (no lo	ad)				87	
12 parts line required to lift this capacity (using aux. boom nose). oom ngle 35 55 61 74 87 0 26,400 12,500 10,150 4,680 1,860	NOTE:	() Boom angl	es are in degre	ees.						
oom ngle 35 55 61 74 87 0 26,400 12,500 10,150 4,680 1,860	*This ca	pacity is based	on maximum bo	om angle.						
ngle 35 55 61 74 87 0 26,400 12,500 10,150 4,680 1,860	+ 12 pa	rts line requir	ed to lift this c	apacity (using a	aux. boom no	se).				
0 26,400 12,500 10,150 4,680 1,860	Boom Angle	35	55	61	74	87				
	gic									
	0									

A6-829-014536A

ı	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
	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.





A6-829-014539

T1 T2 T3 T4	% N	ODE B							
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

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)



56 ft. 18,000 lbs. 17 m) (8165 kg)



Q

					85% Domes	tic (Pounds)	
	31 FT.	LENGTH (SWINGAWAY	BASE)	T	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 length	32	32	45		40	40	45
Maximum boom length (ft.) at 0 deg. boom angle		112				99	

*This capacity is based on maximum boom angle.

MODE B A6-829-014929

TMS870/TTS870 29





35 - 138 ft. (10.8 - 42.0 m)



56 ft. 12,500 lbs. 17 m) (5670 kg)





				85% Domes	tic (Pounds)	
	31 FT. I	LENGTH (SWINGAWA	Y 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 angle eg.) for indicated length	34	38	45	42	45	47
aximum boom length at 0 deg. boom angle		99			74	

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

A6-829-014931

MODE B





35 - 138 ft. (10.8 - 42.0 m)



8,500 lbs. (3855 kg)





					85% Domesti	c (Pounds)	
	31 FT	T. LENGTH (SWINGAWAY	BASE)	1	56 FT. LENG	TH (SWINGAWAY BA	SE & 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	6,200 (60.5)	6,060 (64)	6,280 (65.5)		4,500 (66.5)	4,120 (71)	3,400 (74)
100	4,530 (56.5)	5,330 (60)	5,580 (61)		4,300 (63.5)	3,810 (67.5)	3,300 (70.5)
110	3,200 (52)	3,860 (55.5)	3,970 (56.5)		4,100 (59.5)	3,600 (64)	3,200 (67)
120	2,120 (47)	2,660 (50.5)	2,660 (52)		3,120 (56)	3,400 _(60.5)	3,100 (63)
130	1,220 (41.5)	1,660 (45)			2,150 (52)	2,640 (56)	3,000 (58.5)
140					1,320 (47.5)	1,640 (51.5)	1,920 (53.5)
Minimum boom angle (deg.) for indicated length	39	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





35 - 138 ft. (10.8 - 42.0 m)



5,500 lbs. (2495 kg)





	31 FT	LENGTH (SWINGAWAY BA	ASE)	85% Domesti	c (Pounds) TH (SWINGAWAY B	ASE & FLV)
(= 0)			•		•	•
(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.





35 - 138 ft. (10.8 - 42.0 m)



3,000 lbs. (1361 kg)



Q

				85%	6 Domesti	c (Pounds)	
	31 FT.	LENGTH (SWINGAWAY	BASE)	56	56 FT. LENGTH (SWINGAWAY BASE & FLY)		
(Feet)	1.5°	25 °	45 °	1.5	5 °	25 °	45 °
35	9,500 (79.5)						
40	9,500 (78)			*5,5 (80			
45	9,500 (76.5)	*8,750 (80)		5,40 (79)			
50	9,500 (75)	7,490 (78.5)	*7,800 (80)	5,30 (78			
60	9,110 (71.5)	7,060 (75)	6,740 (77)	5,10 (75)		*4,640 (80)	
70	8,450 (68.5)	6,720 (71.5)	6,460 (73.5)	4,90 (72)		4,430 (78)	*3,600 (80)
80	6,680 (64.5)	6,330 (68)	6,350 (69.5)	4,70 (69)		4,220 (74.5)	3,500 (77.5)
90	4,730 (60.5)	5,490 (64)	6,140 (65.5)	4,50 (66		4,120 (71)	3,400 (74)
100	3,230 (56.5)	3,790 (60)	4,280 (61)	4,30 (63.		3,810 (67.5)	3,300 (70.5)
110	2,030 (52)	2,450 (55.5)	2,800 (56.5)	3,13 (59)		3,600 (64)	3,200 (67)
120	1,060 (47)	1,350 (50.5)	1,600 (52)	2,00 (56		2,770 (60.5)	3,100 (63)
130				1,1 (52		1,670 (56)	2,100 (58.5)
140							1,020 (53.5)
Minimum boom angle (deg.) for indicated length	47	47	48	52	2	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.





35 - 138 ft. (10.8 - 42.0 m)



6 ft. 0 lbs. 7 m) (0 kg)



Q

61

85% Domestic (Pounds) 31 FT. LENGTH (SWINGAWAY BASE) 56 FT. LENGTH (SWINGAWAY BASE & FLY) **25**° **1.5**° 45° **25**° 45° (Feet) **1.5**° 9,500 (79.5)9,500 *5.500 40 (78) (80) 9,500 (76.5) 5,400 (79.5) *8,750 (80) 45 9,500 (75) *7,800 (80) 5,300 (78) 7,490 50 (78.5)6,740 (77) 5,100 (75.5) *4,640 (80) 9,110 7,060 ബ $(7\dot{1}.5)$ (75) 4,900 (72.5) 8,220 6,720 6,460 4,430 *3,600 70 (78) (68.5) $(7\dot{1}.5)$ (73.5)(80) 4,700 (69.5) 4,220 (74.5) 3,500 (77.5) 5,760 6,330 6,350 80 (64.5)(69.5)(68)4,500 (66.5) 4,120 (71) 3,400 (74) 3,930 (60.5) 5,330 (65.5) 4.690 90 (64) 2,520 (56.5) 3,080 (60) 3,570 (61) 3,300 (70.5) 3,730 (63.5) 3,810 100 (67.5) 1,390 (52) 1.810 2.160 2.490 3.450 3.200 110 (55.5) (56.5) (59.5) (64) (67) 1,480 (56) 1,020 2,190 2,790 120 (52) (60.5)(63) 1,140 (56) 1,570 130 (58.5) Minimum boom angle (deg.) for indicated length 52 51 55 56 55

NOTE: () Boom angles are in degrees.

Maximum boom length (ft.) at 0 deg. boom angle

74

MODE B A6-829-014549A

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





35 - 125 ft. (10.8 - 38.1 m)



18,000 lbs. (8165 kg)





				85% Domesti	c (Pounds)	
	31 FT. L	ENGTH (SWINGAWA	Y 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	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 <u>(41)</u>	
linimum boom angle g.) for indicated lengt	h ²⁴	25	45	35	37	45
aximum boom length at 0 deg. boom angle	•	112			99	

*This capacity is based on maximum boom angle.

MODE B A6-829-014930

TMS870/TTS870 35





35 - 125 ft. (10.8 - 38.1 m)



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



100%

Q

					85% Domest	ic (Pounds)	
	31 FT.	LENGTH (SWINGAWAY	BASE)	T^-	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	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





35 - 125 ft. (10.8 - 38.1 m)



66 ft. 8,500 lbs. 17 m) (3855 kg)



Q

					85% Domesti	c (Pounds)		
	31 FT. I	LENGTH (SWINGAWAY			56 FT. LENGTH (SWINGAWAY BASE & 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)		
linimum boom angle g.) for indicated length	37	39	46		42	46	47	
aximum boom length at 0 deg. boom angle		99		•		87		

MODE B A6-829-014542

TMS870/TTS870

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



			Q				
5 - 138 ft. 8 - 42.0 m)	8,500 lbs. (3855 kg)	100%	360°				
					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	(23.3)	20,500	22,300	21,550	18,650	17,300	18,300
35		(56.5) 17,450 (50)	(63) 19,100 (58.5)	(68) 18,500 (64)	(71.5) 16,900 (68.5)	(74.5) 16,450 (71.5)	(78.5) 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	12,750	12,350 (52)	12,100	12,700	15,700
60		(24.5)	(42.5) 10,050 (28)	9,780 (42.5)	(58.5) 9,580 (51)	(63) 10,150 (57)	(69.5) 13,300 (65)
70			(20)	7,860	7,710	8,220	10,200
80				(30)	(42.5) 6,270	(50) 6,730	(60) 7,430
90					(32) 4,800	(42.5) 5,550	(55) 5,370
100					(15.5)	(33.5) 4,010	(49.5) 3,770
110						(21)	(43) 2,510
120							(36) 1,480
		· Park Harris A.	N			•	(27)
	oom angle (deg.) for i		<u> </u>			0	10
	poom length (ft.) at 0 c		no load)				112
• • • • • • • • • • • • • • • • • • • •	Boom angles are in city is based on maxin						
•	line required to lif	_	ing aux. boom no	se).			
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)	

A6-829-014468A

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.

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.



			Q				
5 - 138 ft. .8 - 42.0 m)	5,500 lbs. (2495 kg)	100%	360°				
					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	68,550 (44.5)	29,400 (67.5)	31,350 (71.5)	28,850 (75)	21,350 (77.5)	19,000 (79.5)	
25	51,450 (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		(24.0)	10,050 (28)	9,780 (42.5)	9,580 (51)	10,150 (57)	12,800 (65)
70			(20)	7,830 (30)	7,710 (42.5)	8,220 (50)	9,120 (60)
80				(00)	6,270 (32)	6,730 (42.5)	6,510 (55)
90					4,040 (15.5)	5,110 (33.5)	4,560 (49.5)
100					<u>(10.0)</u>	3,340 (21)	3,060 (43)
110							1,870 (36)
Minimum I	boom angle (deg.) for i	ndicated length (no	load)			0	33
Maximum	boom length (ft.) at 0 c	legree boom angle (no load)			1	112
NOTE: ()	Boom angles are in	n degrees.					
*This capa	city is based on maxir	num boom angle.					
+ 12 parts	s line required to lif	t this capacity (us	sing aux. boom no	ose).			
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)	

A6-829-014469A

T1 T2 T3 T4 %	MODE	A					
Т1	0	0	0	0	0	0	100
Т2	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.

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			Q				
35 - 138 ft. 0.8 - 42.0 m)	3,000 lbs. (1361 kg)	100%	360°				
					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	95,350 (56)	36,550 (72.5)	32,100 (76)	31,850 (78.5)	*21,350 (80)		
20	66,750 (44.5)	29,400 (67.5)	31,350 (71.5)	28,850 (75)	21,350 (77.5)	19,000 (79.5)	
25	50,050	24,350	26,450	25,050	20,850	18,150	*19,000
30	(29.5)	(62) 20,500	(67.5) 22,300	(71.5) 21,550	(74.5) 18,650	(77) 17,300	(80) 18,300
35		(56.5) 17,450	(63) 19,100	(68) 18,500	(71.5) 16,900	(74.5) 16,450	(78.5) 17,650
40		(50) 15,050	(58.5) 16,500	(64) 16,000	(68.5) 15,300	(71.5) 15,650	(76.5) 17,000
45		(43) 13,100	(53.5) 14,4 5 0	(60) 14,000	(65) 13,650	(69) 14,150	(74) 16,350
		(35) 11,450	(48.5) 12,750	(56) 12,350	(61.5) 12,100	(66) 12,700	(72) 15,700
50		(24.5)	(42.5) 10,050	(52) 9,780	(58.5) 9.580	(63) 10,150	(69.5) 11,700
60			(28)	(42.5) 6,990	(51) 7,710	(57) 8,220	(65) 8,220
70				(30)	(42.5) 5,580	(50) 6,660	(60) 5,740
80					(32) 3,410	(42.5) 4,480	(55) 3,900
90					(15.5)	(33.5)	(49.5)
100						2,770 (21)	2,470 (43)
110							1,340 (36)
Minimum b	oom angle (deg.) for i	ndicated length (no l	oad)			0	35
Maximum b	ooom length (ft.) at 0 d	egree boom angle (r	no load)			1	112
NOTE: ()	Boom angles are in	n degrees.					
*This capac	city is based on maxin	num boom angle.					
+ 12 parts	line required to lif	t this capacity (us	ing aux. boom no	ose).			
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)	

A6-829-014470A

T1\T2\T3\T4\00000 %	MODE	Α					
T1	0	0	0	0	0	0	100
Т2	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.

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138 ft. - 42.0 m)	0 lbs. (0 kg)	100%		360°			
					85% Domestic (Pounds)	
(Feet)	35	61	74	87	99	112	138
10	139,500 (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	92,450 (56)	36,550 (72.5)	32,100 (76)	31,850 (78.5)	*21,350 (80)		
20	64,600 (44.5)	29,400 (67.5)	31,350 (71.5)	28,850 (75)	21,350 (77.5)	19,000 (79.5)	
25	48,350 (29.5)	24,350 (62)	26,450 (67.5)	25,050 (71.5)	20,850 (74.5)	18,150 (77)	*19,000 (80)
30	(29.5)	20,500	22,300	21,550	18,650	17,300	18,300
35		(56.5) 17,450	(63) 19,100	(68) 18,500	(71.5) 16,900	(74.5) 16,450	(78.5) 17,650
40		(50) 15,050	(58.5) 16,500	(64) 16,000	(68.5) 15,300	(71.5) 15,650	(76.5) 17,000
45		(43) 13,100	(53.5) 14,450	(60) 14,000	(65) 13,650	(69) 14,150	(74) 16,350
50		(35) 11,450	(48.5) 12,750	(56) 12,350	(61.5) 12,100	(66) 12,700	(72) 15,450
60		(24.5)	9,160	(52) 9,710	(58.5) 9,580	(63) 10,150	(69.5) 10,400
70			(28)	(42.5) 5,990	(51) 7,430	(57) 8,220	(65) 7,140
80				(30)	(42.5) 4,720	(50) 5,790	(60) 4,820
90					(32) 2,550	(42.5) 3,700	(55) 3,100
100					(15.5)	(33.5) 1,990	(49.5) 1,760
	\		I N			<u>(21)</u> 0	(43)
		or indicated length (r	•			U	40
		0 degree boom ang	le (no load)				112
	Boom angles are						
*This capaci	ity is based on ma	ximum boom angle.					
Boom Angle	35	61	74	87	99	112	
0	26,400 (28.2)	10,150 (53.8)	6,240 (66.6)	3,330 (79.4)	2,130 (92.2)	1,260 (105)	

T1 T2 T3 T4 %	MOD	E A					
T1	0	0	0	0	0	0	100
T2	0	100	100	100	100	100	100
тз	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.



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 49,200 lbs.	REAR 60,000 lbs. (27 216 kg)	GVW 109,200 lbs. (49 533 kg)
	(22 317 kg)	(27 210 kg)	(+3 333 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	36,308 lbs.	53,172 lbs.	89,480 lbs.
on superstructure	(16 469 kg)	(24 119 kg)	(40 588 kg)
5,500 lbs. (2495 kg) ONLY	43,746 lbs.	45,734 lbs.	89,480 lbs.
on carrier	(19 843 kg)	(20 745 kg)	(40 588 kg)
No cwt. on carrier or superstructure	38,788 lbs. (17 594 kg)	45,192 lbs. (20 499 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:

G	V	W	

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
	49,200 lbs.	60,000 lbs.	109,200 lbs.
	(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	39,092 lbs.	54,348 lbs.	93,440 lbs.
on superstructure	(17 732 kg)	(24 652 kg)	(42 384 kg)
5,500 lbs. (2495 kg) ONLY	46,530 lbs.	46,910 lbs.	93,440 lbs.
on carrier	(21 106 kg)	(21 278 kg)	(42 384 kg)
No cwt. on carrier or superstructure	41,572 lbs. (18 857 kg)	46,368 lbs. (21 033 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

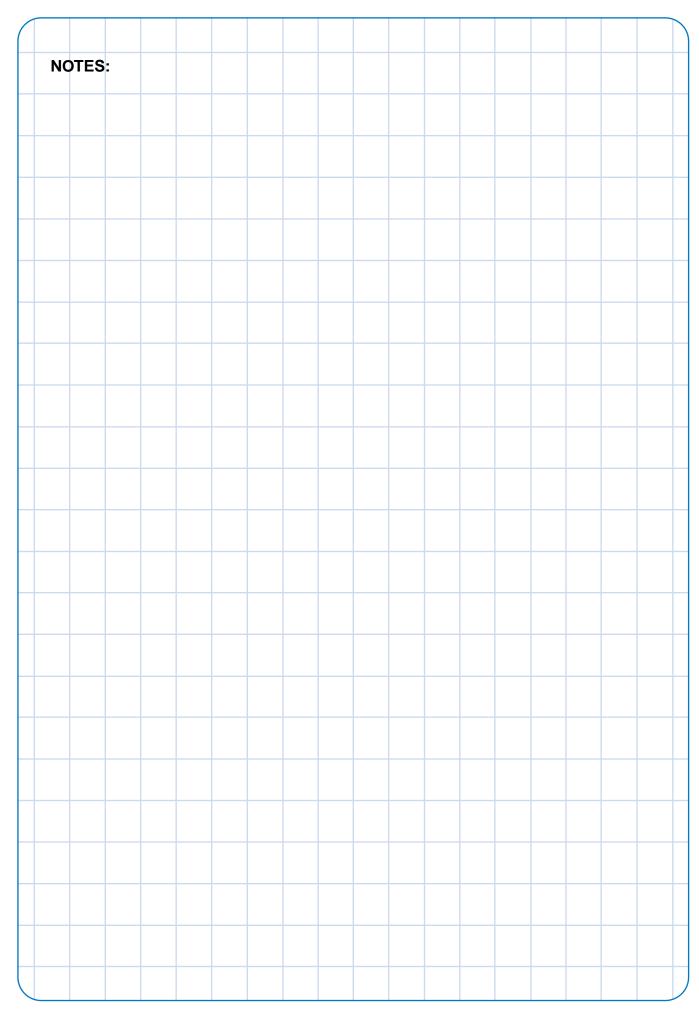
AXLE/TIRE CAPACITY	FRONT	REAR	GVW
	49,200 lbs.		98,400 lbs.
	(22 317 kg)	(22 317 kg)	(44 634 kg)

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	46,327 lbs.	47,369 lbs.	93,696 lbs.
on carrier	(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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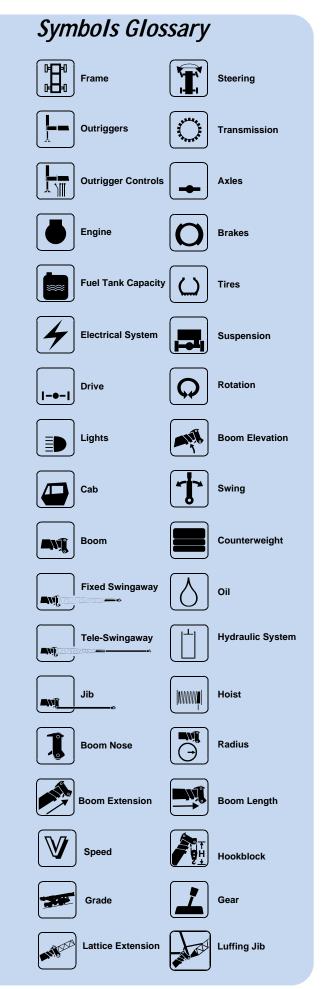


Rated Lifting Capacities

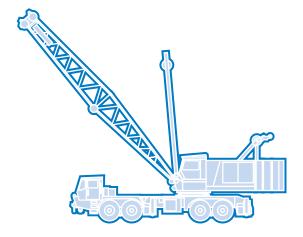
IMPORTANT NOTES:

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.

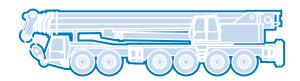
- 1. All rated loads have been tested to and meet minimum requirements of SAEJ1063 NOV93 Cantilevered Boom Crane Structures Method of Test, and do not exceed 85% of the tipping load on outriggers fully extended as determined by SAEJ765 OCT90 Crane Stability Test Code.
- 2. Capacities given do not include 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.

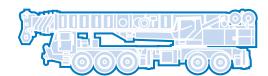




















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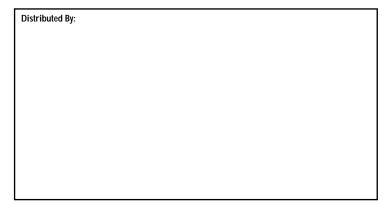
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Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment, and price changes without notice. Illustrations shown may include optional equipment and accessories and may not include all standard equipment.



Form No.: TMS/TTS870 Part No.: 3-967 597-10M Printed in U.S.A.