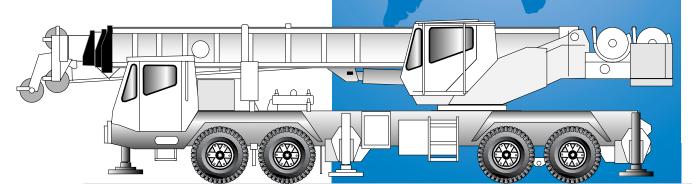
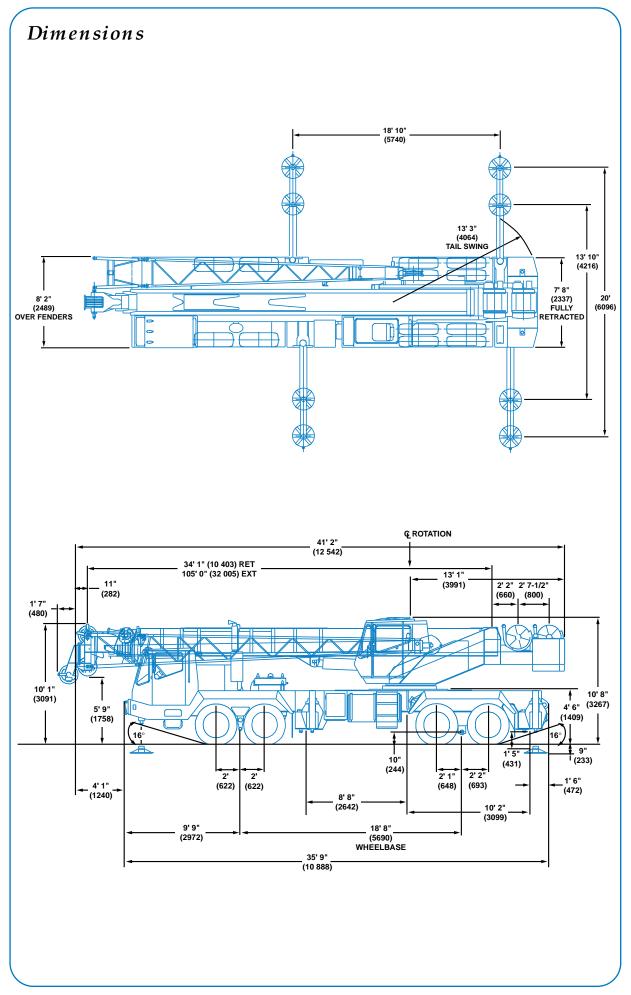


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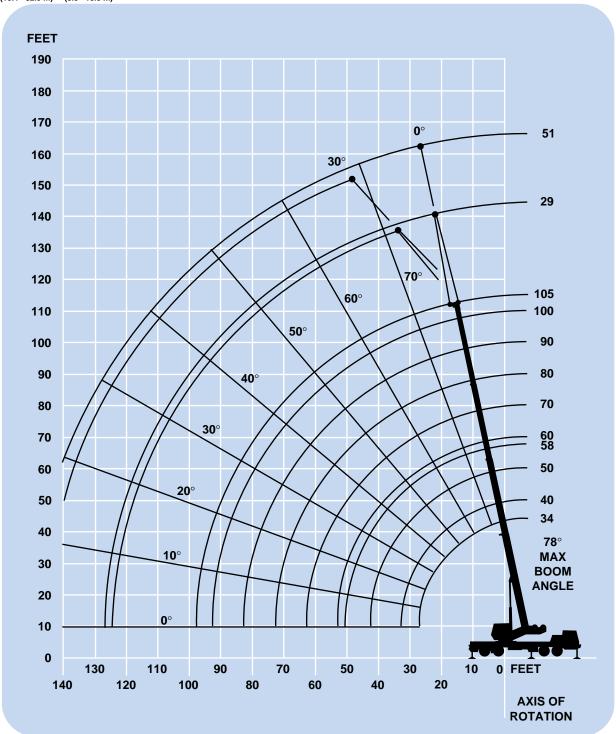


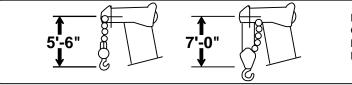
Carrier-Mounted Hydraulic Crane



Working Range







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

Superstructure specifications

Boom

34 ft. - 105 ft. (10.4 m - 32 m) four-section full power boom.

Maximum tip height: 112 ft. (34.0 m)

Telescopic Swingaway Extension

29 ft. to 51 ft. (8.8 m to $\overline{15.5}$ m) telescopic lattice swingaway extension offsettable at 0° and 30° . Stows alongside base boom section.

Maximum tip height: 163 ft. (49.7 m)

*Optional Fixed Swingaway Extension

29 ft. (8.8 m) lattice swingaway boom extension offsettable at 0° and 30°. Stows alongside base boom section.

Maximum tip height: 141 ft. (42.9 m)

Boom Nose

Three sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve boom nose. *Optional removable auxiliary boom nose with removable pin type rope guard.

Boom Elevation

One double acting hydraulic cylinder with integral holding valve provides elevation from -1° to 78°.

Load Moment & Anti-Two Block System

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

Cab

Full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest mounted hydraulic single axis controls. Dash panel incorporates gauges for all engine functions. Other standard features include: sliding side and rear windows, electric windshield wash-wipe, circulating air fan, opening skylight with electric skylight wiper, swing horn, fire extinguisher and seat belt.

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: 2.5 RPM.

Counterweight

Integral with superstructure, plus one hydraulically removable section @ 3,900 lbs. (1769 kg) pinned to turntable.

Hydraulic System

6 section with a combined capacity of 201 G.P.M. (762 LPM) driven by carrier engine through P.T.O. Standard pump disconnect for travel.

Three individual valve banks.

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

195 gallon (738 L) reservoir.

Remote-mounted oil cooler with thermostatically controlled electric motor driven fan.

HOIST SPECIFICATIONS Main and Auxiliary Hoist

Planetary reduction with automatic spring applied multi-disc brake. Power up and down equal speed. Grooved drum. Electronic hoist drum rotation indicator.

		High Range	Low Range
Maximum Single		347 FPM	161 FPM
Line Speed:	(1st Layer)	(105 m/min)	(49 m/min)
		378 FPM	175 FPM
	(2nd Layer)	(115 m/min)	(53 m/min)
		408 FPM	189 FPM
	(3rd Layer)	(124 m/min)	(57 m/min)
		439 FPM	203 FPM
	(4th Layer)	(133 m/min)	(61 m/min)
		469 FPM	217 FPM
	(5th Layer)	(142 m/min)	(66 m/min)
Maximum Si	ngle	8,254 lbs.	16,508 lbs.
Line Pull:	(1st Layer)	(3744 kg)	(7488 kg)
		7,587 lbs.	15,173 lbs.
	(2nd layer)	(3441 kg)	(6882 kg)
		7,019 lbs.	14,038 lbs.
	(3rd layer)	(3183 kg)	(6367 kg)
		6,530 lbs.	13,061 lbs.
	(4th layer)	(2962 kg)	(5924 kg)
		6,105 lbs.	12,211 lbs.
	(5th layer)	(2769 kg)	(5538 kg)
Maximum Po	ermissihle	12,920 lbs.	
Line Pull w/		(5860 kg)	
,	Strength Factor		

Maximum Rope 694 ft. (211 m) Stowage: 3/4 in. (19 mm)

Note: 450 ft. (137 m) length wire rope supplied with basic standard unit.

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^{*}Denotes optional equipment

Carrier specifications

Chassis

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

Outrigger System

Hydraulic single stage, double box beam outriggers with inverted jack and integral holding valves. Three position setting. All steel fabricated, quick release type outrigger floats, 24 in. (610 mm) in diameter.

Maximum outrigger pad load: 67,592 lbs. (30 659 kg).

Outrigger Controls

Controls and crane level indicator located in superstructure cab.

Engine

Cummins 6CTA8.3, six cylinder, turbocharged and after cooled diesel, 505 cu. in. (8.3 L), 250 bhp (186 kW) (gross) @ 2,400 RPM.

Maximum torque: 660 ft. lbs. (895 Nm) @ 1,300 RPM.

Fuel Tank Capacity

100 gallons (376 L).

Electrical System

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

Drive

8 x 4

Steering

Front axles, mechanical with hydraulic power assist controlled by steering wheel.

Transmission

Roadranger 13 speeds forward and 3 reverse.

Axles

Front: (2) beam type steering axles, 82 in.

(2.08 m) track.

Rear: (2) single reduction drive, 72.1 in. (1.83 m)

track. Inter-axle differential lock.

Brakes

Dual line air system operating on all wheels. Springapplied, air released. Parking brake acting on rear axles. Air dryer standard.

Tires

Front: 425/65R22.5 radial highway tread tubeless

singles.

Rear: 11:00 x 20-14PR highway tread tube type

duals.

Suspension

Front: Spring mounted tandem.

Rear: Solid mount tandem with equalizing beam

and solid steel saddles.

Lights

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

Cab

One man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered, fully adjustable seat. Complete driving controls and engine instrumentation, including tilt telescope steering wheel, tachometer, speedometer, voltmeter, water temp., oil pressure, fuel level, dual air pressure gauges with A/V warning, 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 and window locks.

Maximum Speed

50 mph (80 kph)

Gradeability (Theoretical)

40% (Based on 72,000 lbs. [32 659 kg] GVW)

Gross Vehicle Weight

Basic unit 72,225 lbs. (32 761 kg).

Miscellaneous Standard Equipment

Full width aluminum fenders, 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 muffler guard.

*Optional Equipment

- * Auxiliary hoist
- * Amber flashing light
- * Cab spotlight
- * Engine block heater
- * Hookblocks
- * Pintle hook-rear
- * 360° position positive houselock
- * Exhaust brake
- * Dual axis controls
- *Outrigger controls on chassis
- *Air/electric connections for trailing boom
- *12.00R20 tube-type and 12R22.5 tubeless rear tires

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^{*}Denotes optional equipment





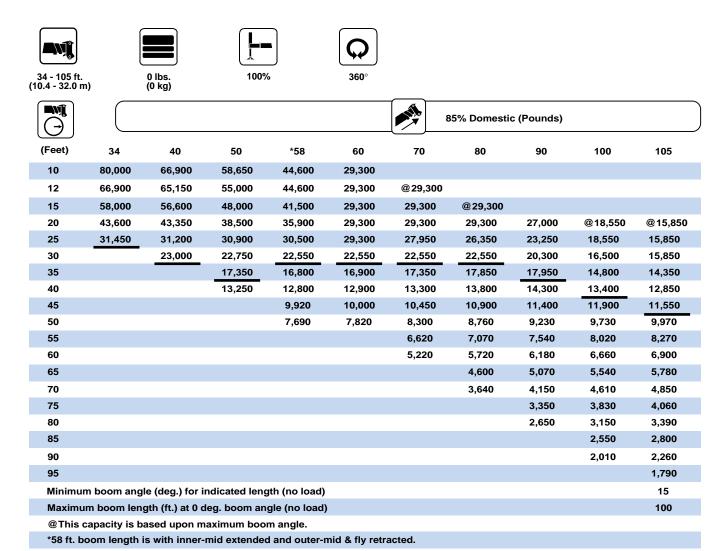


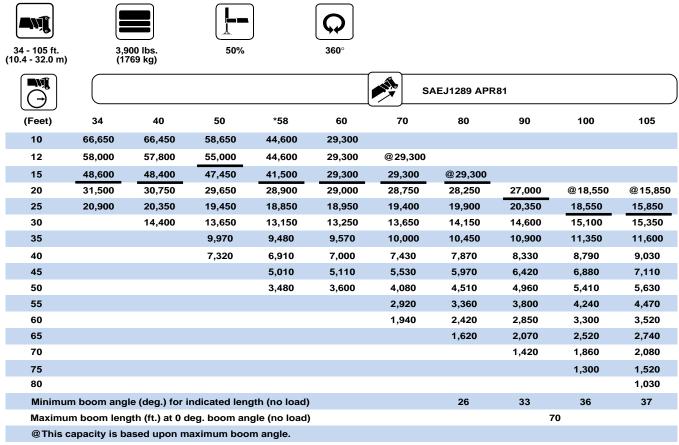
4 - 105 ft.	3,900 li
.4 - 32.0 m)	(1769 k

$\left[\right]$	

85% Domestic (Pounds)

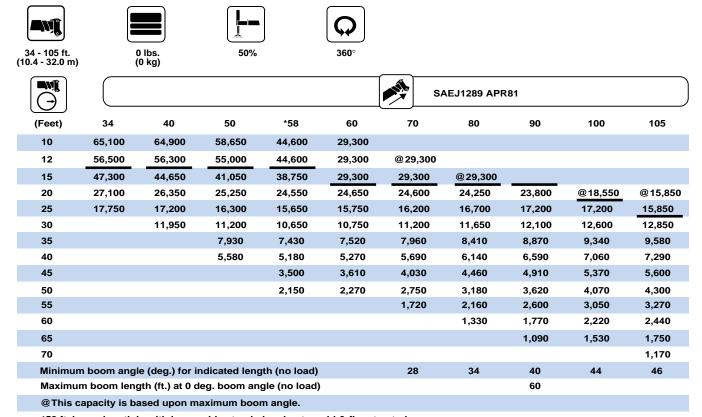
(Feet)	34	40	50	*58	60	70	80	90	100	105
10	80,000	66,900	58,650	44,600	29,300					
12	66,900	65,150	55,000	44,600	29,300	@29,300				
15	58,000	56,600	48,000	41,500	29,300	29,300	@29,300			
20	45,500	45,300	38,500	35,900	29,300	29,300	29,300	27,000	@18,550	@15,85
25	34,400	34,400	32,400	30,500	29,300	27,950	26,350	23,250	18,550	15,850
30		25,750	25,500	25,300	25,300	24,000	22,950	20,300	16,500	15,850
35			19,650	19,500	19,500	19,500	19,500	17,950	14,800	14,350
40			15,500	15,150	15,250	15,700	16,150	16,000	13,400	12,850
45				11,950	12,050	12,450	12,950	13,400	12,500	11,550
50				9,470	9,590	10,050	10,500	11,000	11,500	10,400
55						8,200	8,650	9,120	9,600	9,450
60						6,640	7,140	7,600	8,080	8,320
65							5,890	6,360	6,830	7,070
70							4,830	5,330	5,800	6,030
75								4,440	4,920	5,150
80								3,660	4,170	4,400
85									3,490	3,750
90									2,900	3,150
95										2,630
Minimur	n boom angl	e (deg.) for i	ndicated leng	gth (no load)						15
Maximu	m boom leng	gth (ft.) at 0 d	eg. boom an	gle (no load)						100
@This c	apacity is ba	ased upon m	aximum boo	m angle.						
*58 ft. bo	oom length i	s with inner-	mid extended	d and outer-n	nid & fly retra	acted.				





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

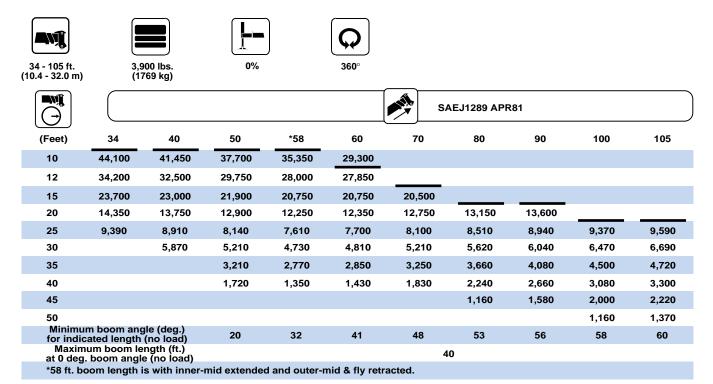
A6-829-014683



^{*58} ft. boom length is with inner-mid extended and outer-mid & fly retracted.

A6-829-014684

Courtesy of Crane.Market



34 - 105 ft. (10.4 - 32.0 m)		lbs. 0 kg)	0%		360°					
							SAEJ1289 APR	81		
(Feet)	34	40	50	*58	60	70	80	90	100	105
10	37,050	34,700	31,400	29,300	29,050					
12	28,500	27,000	24,550	23,000	22,900					
15	19,400	18,650	17,600	16,750	16,750	16,70	<u> </u>			
20	11,400	10,800	9,920	9,310	9,400	9,800	10,200	10,650		
25	7,120	6,640	5,870	5,340	5,430	5,830	6,240	6,670	7,100	7,320
30		4,030	3,370	2,890	2,970	3,370	3,780	4,210	4,640	4,850
35			1,670	1,220	1,310	1,700	2,110	2,540	2,960	3,180
40								1,330	1,750	1,970
45										1,050
for indic Maxim	m boom ang ated length um boom le boom angle	(no load) ngth (ft.)	34	42	48	54	59 40	62	64	64

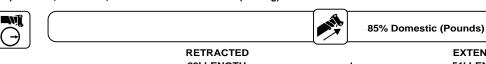
^{*58} ft. boom length is with inner-mid extended and outer-mid & fly retracted.





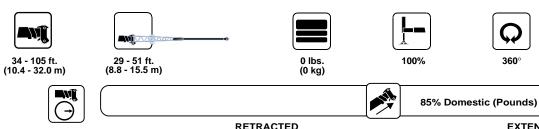






		RACTED ENGTH	EXTEN 51' LEN	
(Feet)	0° OFFSET	30° OFFSET	0° OFFSET	30° OFFSET
30	9,000			
35	8,600		*5,060	
40	8,250	*5,000	4,900	
45	7,500	4,800	4,700	
50	6,850	4,600	4,400	
55	6,250	4,400	4,000	*2,800
60	5,600	4,350	3,800	2,700
65	5,000	4,300	3,700	2,600
70	4,450	4,250	3,500	2,500
75	4,000	4,200	3,400	2,400
80	3,550	3,800	3,300	2,350
85	3,150	3,300	3,100	2,300
90	2,800	2,900	2,900	2,250
95	2,500	2,500	2,700	2,200
100	2,150	2,190	2,350	2,150
105	1,750	1,770	2,050	2,150
110	1,390	1,390	1,820	1,820
115			1,440	1,440
120			1,090	1,090

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



	RETRAC 29' LEN		EXTEI 51' LE	
(Feet)	0° OFFSET	30° OFFSET	0° OFFSET	30° OFFSET
30	9,000			
35	8,600		*5,060	
40	8,250	*5,000	4,900	
45	7,500	4,800	4,700	
50	6,850	4,600	4,400	
55	6,250	4,400	4,000	*2,800
60	5,600	4,350	3,800	2,700
65	5,000	4,300	3,700	2,600
70	4,450	4,250	3,500	2,500
75	4,000	4,190	3,400	2,400
80	3,470	3,470	3,300	2,350
85	2,850	2,850	3,100	2,300
90	2,310	2,310	2,900	2,250
95	1,830	1,830	2,410	2,200
100	1,410	1,410	1,930	1,930
105	1,020	1,020	1,500	1,500
110			1,110	1,110

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







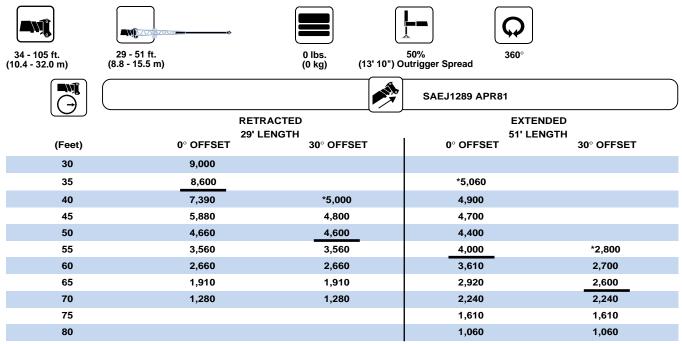


50% (13' 10") Outrigger Spread

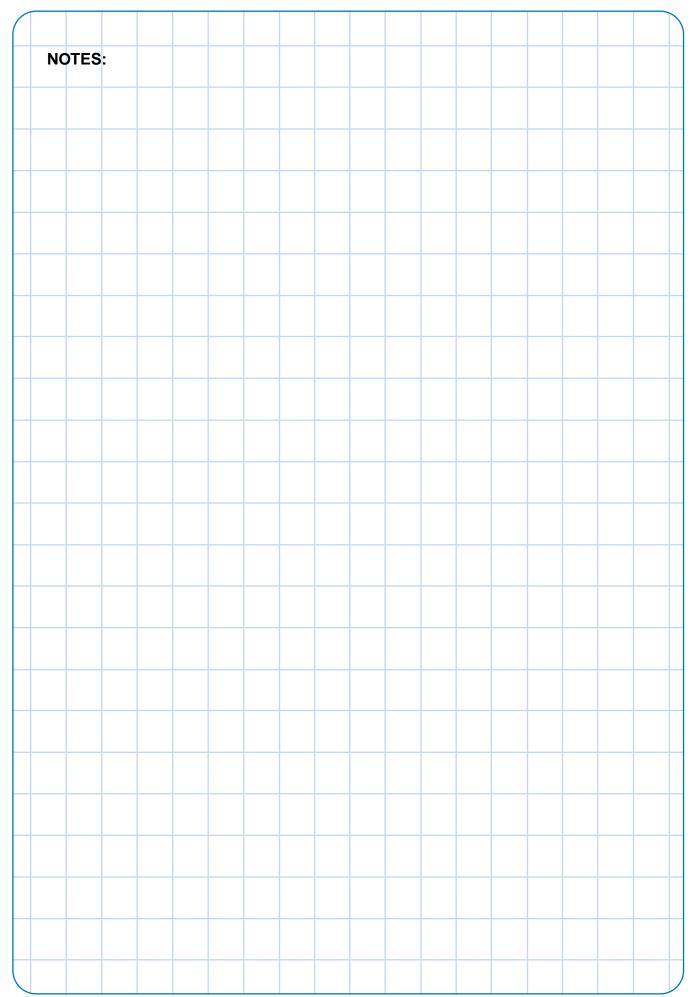




	RETR	ACTED	EXTE	NDED
	29' L	ENGTH	51' LE	NGTH
(Feet)	0° OFFSET	30° OFFSET	0° OFFSET	30° OFFSET
30	9,000			
35	8,600		*5,060	
40	8,250	*5,000	4,900	
45	7,430	4,800	4,700	
50	6,010	4,600	4,400	
55	4,760	4,400	4,000	*2,800
60	3,740	3,740	3,800	2,700
65	2,900	2,900	3,700	2,600
70	2,190	2,190	3,150	2,500
75	1,590	1,590	2,450	2,400
80	1,070	1,070	1,850	1,850
85			1,320	1,320
*This capacity	is based upon maximum bo	oom angle.		



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



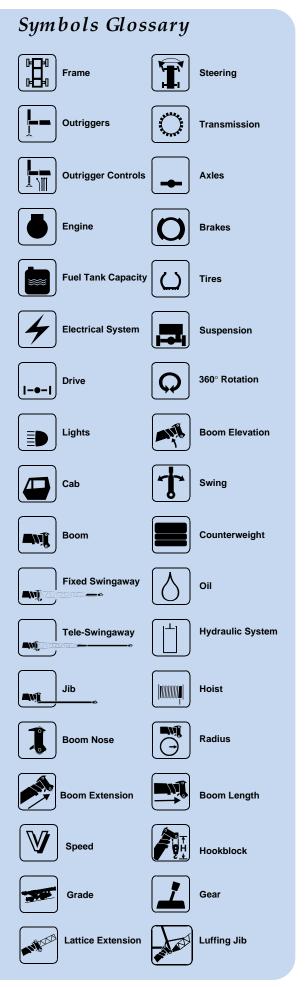
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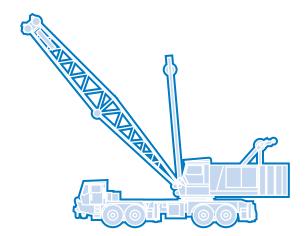
Rated Lifting Capacities

IMPORTANT NOTES:

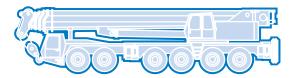
WARNING: THIS CHART IS ONLY A GUIDE.
The notes below are for illustration only and should not be relied upon to operate the crane.
The individual crane's load chart, operating instructions and other instruction plates must be read and understood prior to operating the crane.

- 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 and SAEJ1289 APR81 Mobile Crane Stability Ratings on outriggers 50% and 0% extended (fully retracted) 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 and tipping should not 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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Form No.: TMS 640 Part No.: 3-1049 1296-5M Printed in U.S.A.