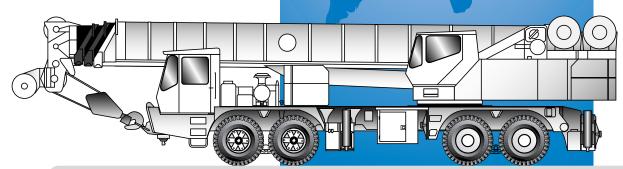


Tel: (888) 337-BIGGE or (510) 638-8100

Web: www.bigge.com



TM9120



**Truck Mounted Hydraulic Crane** 

2 TM9120

+2363 lbs. (1072 kg)

+10,882 lbs. (4936 kg)

-2,323 lbs. (-1053 kg)

-2,370 lbs. (-1075 kg)

+7,365 lbs. (3341 kg)

+7,938 lbs. (3601 kg) -1,600 lbs. (-725 kg)

+3,427 lbs. (1554 kg)

+5,002 lbs. (2269 kg)

-2,944 lbs. (-1335 kg)

+723 lbs. (327 kg)

+5,797 lbs. (2629 kg)

Note: Weights may vary due to manufacturing tolerances and scale accuracy.

teleswingaway Front O/R box

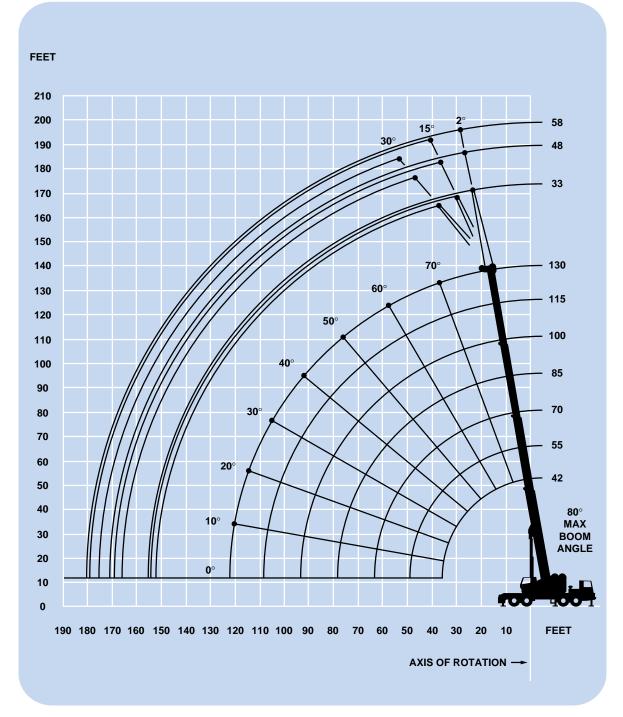
Rear O/R box w/floats

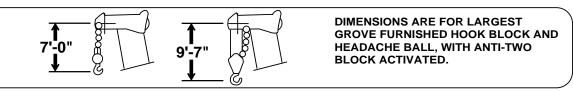
Non-supply aux. hoist

130 ton hookblock

# Working Range







# **Boom**

42 ft. - 130 ft. (12.8 m - 39.6 m) four-section full power boom. Maximum tip height: 139 ft. (42.4 m).

# Telescoping Swingaway Extension

33 ft. to 58 ft. (10 m to 17.7 m) telescoping lattice swingaway boom extension offsettable at 2°, 15° or 30°. Stows alongside base boom section. Maximum tip height: 195 ft. (59.4 m).

# \*Optional Fixed Swingaway Extension

33 ft. (10 m) lattice swingaway boom extension offsettable at 2°, 15° or 30°. Stows alongside base boom section. Maximum tip height: 171 ft. (52.1 m).

#### Jibs

23 ft. (7.0 m) base section combines with lattice inserts and point section for lengths of 74, 88, 102 and 116 ft. (22.6, 26.8, 31 and 35.3 m) offsettable at 10°, 17° and 30°. Maximum tip height: 248 ft. (75.6 m).

#### **Boom Nose**

Six low friction nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. \*Optional removable auxiliary boom nose with removable pin-type rope guards.

### **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 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 load indication and warning of impending two-block condition.

#### Cab

Full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest mounted hydraulic joystick 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, fire extinguisher, and seat belt.

#### **Swing**

Ball bearing swing circle with 360° continuous rotation. Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released parking brake, plunger type, mechanical house lock, operated from cab. Maximum speed: 2.0 RPM.

### Counterweight

Two piece: 18,000 lbs. (8165 kg) and 12,000 lbs. (5443 kg). Total: 30,000 lbs. (13 608 kg), power removable.

### **Engine**

Cummins 6CTA8.3, 6-cylinder turbo-charged, after cooled diesel, 250 hp (186 kW) @ 2,200 RPM. Maximum torque: 716 ft. lbs. (971 Nm) @ 1,500 RPM.

### Hydraulic System

Six main pumps with a combined capacity of 216 G.P.M. (818 LPM).

Precision four way double acting pilot operated control valves. Three individual valve banks permit simultaneous control of multiple crane functions.

Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of ISO 4406 Class 17/14.

280 gallon (1060 L) reservoir.

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

System pressure test panel with ORSF type fittings.

### **HOIST SPECIFICATIONS**

Variable displacement piston motor with pressure override for infinitely variable speed, powered in both up and down directions. Planetary reduction with automatic spring applied multi-disc brake. Grooved drum for improved spooling. Spring tension cable follower. Electronic hoist drum rotation indicator.

Make/Model		Main and Auxiliary Hoist Grove HO50-26G			
Maximum Single Line Speed:	Bottom layer Intermediate layer	300 FPM (91 m/min) 352 FPM			
	Top layer	(107 m/min) 405 FPM (123 m/min)			
Maximum Single Line Pull:	Bottom layer Intermediate layer Top layer	26,894 lbs. (12 199 kg) 22,869 lbs. (10 373 kg) 19,893 lbs. (9023 kg)			
Maximum Permiss Line Pull w/5:1 Strength Factor:	sible	22,760 lbs. (10 324 kg)			
Maximum Rope Stowage:		1,000 ft. (307 m) 1 in. (25.4 mm)			

Note: 800 ft. (244 m) length of rope supplied with basic standard unit.

Note: Line speed is load dependent. Boosted flow is available to enhance line speed under load.

\*Denotes optional equipment



# Carrier specifications

#### Chassis

Triple box section frame fabricated from high strength, low alloy steel with removable outrigger housings.

# **Outrigger System**

Hydraulic telescoping, single stage, double box beam outriggers with inverted jacks and integral holding valves. Three position setting: 0%, 50% and fully extended. Intermediate position pins manually. Quick release type outrigger floats 30.5 in. (775 mm) diameter. Standard fifth front stabilizer with 24 in. (635 mm) diameter float.

Maximum outrigger pad load: 154,167 lbs. (76 249 kg)

# Outrigger Controls

Located in the superstructure cab and both sides of the carrier, require two hand operation. Crane level indicator (sight bubble) adjacent.

### **Engine**

Cummins N14-460E six cylinder turbo-charged and after cooled diesel, 855 cu. in. (14 L) 460 hp (343 kW) @ 1,600 RPM, 350 hp (261 kW) @ 2,100 RPM. Maximum torque: 1,550 ft. lbs. (2102 Nm) @ 1,200 RPM with engine brake and audio-visual engine distress system.

# **Fuel Tank Capacity**

100 gallons (376 L).

# **Electrical System**

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

#### **Drive**

8 x 4

#### Steering

Front axles, mechanical with hydraulic power assist controlled by steering wheel with auxiliary ground driven steer pump.

#### **Transmission**

Roadranger 10 speeds forward, 3 reverse.

# **Auxiliary Transmission**

Roadranger 2 speed remote mounted.

#### Axles

Front: (2) beam type steering axles, 115 in. (2.92 m) track (14.00R24 tires). 114 in. (2.9 m) track (17.5R25 tires and 22/65R25 tires).

Rear: (2) planetary drive, 100 in. (2.54 m) track.

#### Brakes

Dual line air split system operating on all wheels. Spring-applied, air released parking brake operating on rear axles. Air dryer.

### **Tires**

Front: 14.00R24 highway tread steel-belted radial singles. Rear: 14.00R24 highway tread steel belted radial duals.

#### \*Optional Tires

Front: 14.00 x 24 (24PR) highway tread bias-ply singles. 17.5R25 highway tread tubeless singles. 22/65R25 tubeless singles.

Rear: 14.00 x 24 (24PR) highway tread bias-ply duals. 14.00 x 24 (20PR) lug type bias-ply duals.

# Suspension

Front: Spring mounted tandem.

Rear: Solid mounted tandem with equalizing beam.

# \*Optional Suspension

Front: Solid mounted tandem with equalizing beam.

# 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 tachometer, speedometer, voltmeter, water temp. oil pressure, fuel level, air pressure gauge with A/V warning and engine high temp./low oil pressure A/V warning. Other standard items include hot water heater/defroster, electric windshield wash/wipe, fire extinguisher, seat belt and door and window locks.

### Maximum Speed

50 mph (80.46 kph)

# **Gradeability (Theoretical)**

#### **Gross Vehicle Weight**

BASIC STANDARD MACHINE (in travel mode) G.V.W.: 109,500 lbs. (49 669 kg)

#### Miscellaneous Standard Equipment

Full width aluminum fenders, dual rear view mirrors, electronic back-up alarm, sling/tool box, pump disconnect, emergency steering, tire inflation kit, air cleaner restriction indicator, front tow lugs, and component handling slings.

# \*Optional Equipment

- \* 360° rotating beacon
- \* Cab spotlight
- \* Engine block heater
- \* Hookblocks
- \* Tool kit
- \* Trailing boom kit

\*Denotes optional equipment



# Weight Reductions for Load Handling Devices

# 33 ft. (10 m) Fixed Boom Extension with 42 ft. - 130 ft. (12.8 m - 39.6 m) Boom

\*Stowed 932 lbs. (423 kg) \*Erected 6,185 lbs. (2806 kg)

# 33 ft. - 58 ft. (10 m - 17.7 m) Tele Boom Extension with 42 ft. - 130 ft. (12.8 - 39.6 m) Boom

\*Stowed 1,154 lbs. (523 kg)\*Erected (Retracted) 8,474 lbs. (3844 kg) \*Erected (Extended) 10,911 lbs. (4949 kg)

# 23 ft. (7.0 m) Boom Extension with 42 ft. - 130 ft. (12.8 m - 39.6 m) Boom

\*Erected 4,566 lbs. (2071 kg)

# Fixed Jibs with 28 ft. (8.5 m) Jib Extension and 42 ft. - 130 ft. (12.8 m - 39.6 m) Boom

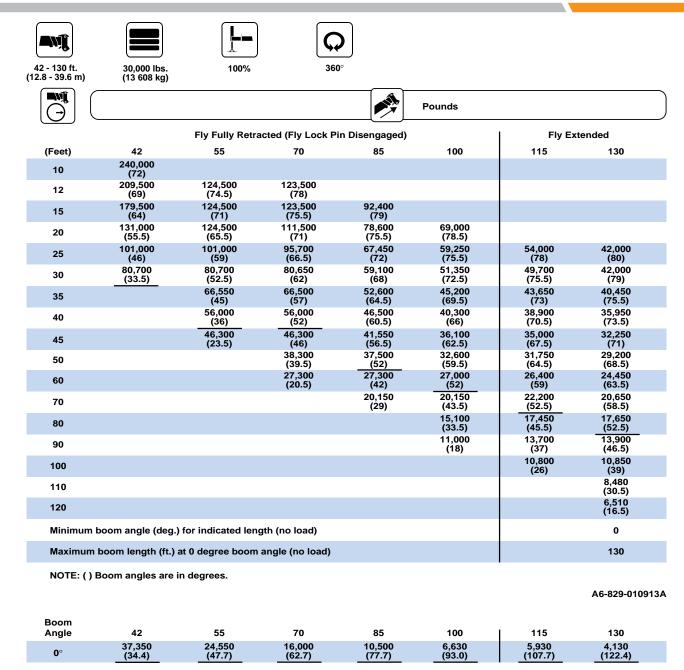
* 74 ft. Jib Erected	12,983 lbs.	(5889 kg)
* 88 ft. Jib Erected	17,146 lbs.	(7777 kg)
* 102 ft. Jib Erected	22,114 lbs.	(10 031 kg)
* 116 ft. Jib Erected	25,786 lbs.	(11 697 kg)
Fixed Jib Accessories	100 lbs.	(45 ka)

<sup>\*</sup>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	260 lbs.	(118 kg)
Hookblocks and Headache Balls:		
+ 30 ton, 1 sheave	1,022 lbs.	(464 kg)
+ 45 ton, 2 sheave	1,002 lbs.	(455 kg)
+ 130 ton, 6 sheave	3,483 lbs.	(1580 kg)
+ 15 ton headache ball	803 lbs.	(364 kg)
+Refer to rating plate for actual weight.		



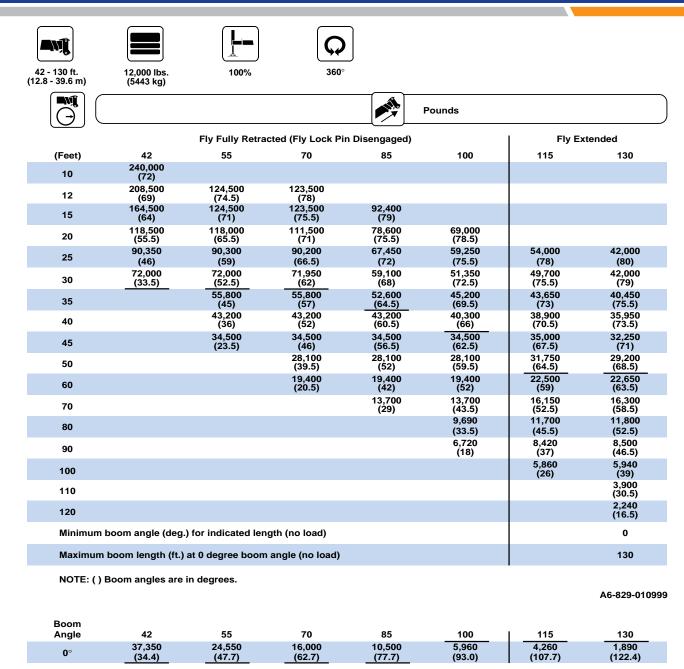
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THIS CHART IS ONLY A GUIDE AND SHOULD NOT BE USED TO OPERATE THE CRANE. The individual crane's load chart, operating instructions and other instructional plates must be read and understood prior to operating the crane.

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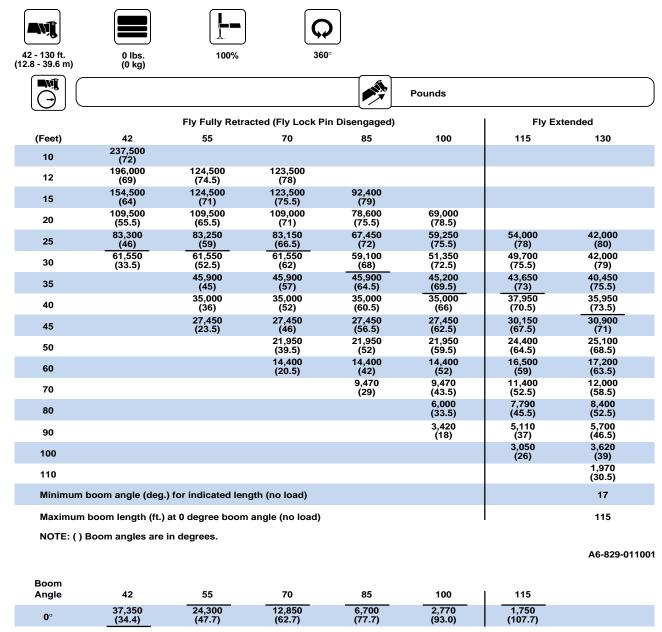
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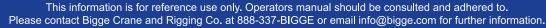


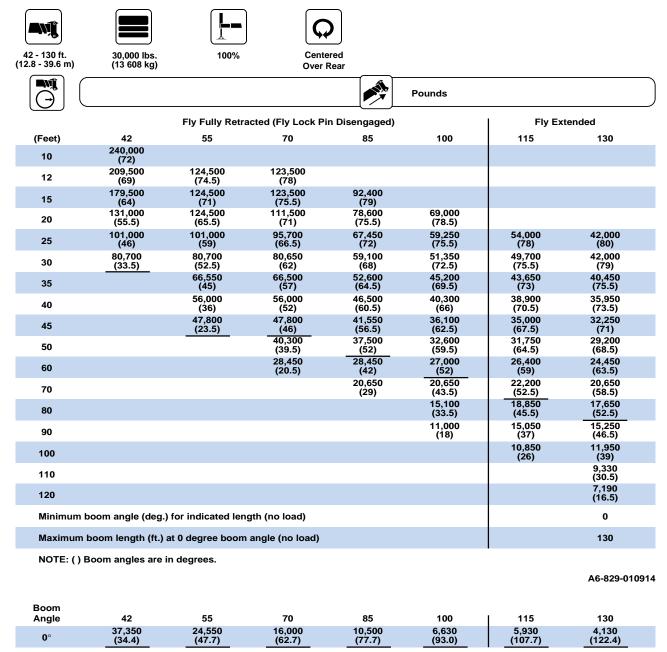


A6-829-011003A

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TM9120





A6-829-011003A

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10



			[ <b>Ç</b>	•			
42 - 130 ft. (12.8 - 39.6 m)	12,000 lbs. (5443 kg)	100%	Cente Over I				
				Pound	s		
		Fly Fully Retra	cted (Fly Lock Pi	n Disengaged)	ı	Fly Ext	tended
(Feet)	42	55	70	85	100	115	130
10	240,000 (72)						
12	208,500 (69)	124,500 (74.5)	123,500 (78)				
15	164,500 (64)	124,500 (71)	123,500 (75.5)	92,400 (79)			
20	118,500 (55.5)	118,000 (65.5)	111,500 (71)	78,600 (75.5)	69,000 (78.5)		
25	90,350 (46)	90,300 (59)	90,200 (66.5)	67,450 (72)	59,250 (75.5)	54,000 (78)	42,000 (80)
30	72,000 (33.5)	72,000 (52.5)	71,950 (62)	59,100 (68)	51,350 (72.5)	49,700 (75.5)	42,000 (79)
35		59,100 (45)	59,050 (57)	52,600 (64.5)	45,200 (69.5)	43,650 (73)	40,450 (75.5)
40		46,650 (36)	46,650 (52)	46,500 (60.5)	40,300 (66)	38,900 (70.5)	35,950 (73.5)
45		37,650 (23.5)	37,650 (46)	37,650 (56.5)	36,100 (62.5)	35,000 (67.5)	32,250 (71)
50			30,950 (39.5)	30,950 (52)	30,950 (59.5)	31,750 (64.5)	29,200 (68.5)
60			21,750 (20.5)	21,750 (42)	21,750 (52)	24,900 (59)	24,450 (63.5)
70				15,650 (29)	15,650 (43.5)	18,150 (52.5)	18,650 (58.5)
80					11,350 (33.5)	13,400 (45.5)	14,100 (52.5)
90					8,150 (18)	9,840 (37)	10,700 (46.5)
100						7,090 (26)	8,080 (39)
110							5,990 (30.5)
120							4,280 (16.5)
Minimum I	ooom angle (deg.)	for indicated len	gth (no load)				0
Maximum	boom length (ft.)	at 0 degree boom	angle (no load)				130
	3oom angles are i	n degrees.					A6-829-01100
Boom Angle	42	55	70	85	100	115	130
<b>0</b> °	37,350 (34.4)	24,550 (47.7)	16,000 (62.7)	10,500 (77.7)	6,630 (93.0)	5,350 (107.7)	3,920 (122.4)
			<del></del>				

A6-829-011003A

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			Q				
42 - 130 ft. (12.8 - 39.6 m)	0 lbs. (0 kg)	100%	Over R	ear			
					Pounds		
		Fly Fully Retra	cted (Fly Lock Pin	Disengaged)		Fly Ex	tended
(Feet)	42	55	70	85	100	115	130
10	237,500 (72)						
12	196,000 (69)	124,500 (74.5)	123,500 (78)				
15	154,500 (64)	124,500 (71)	123,500 (75.5)	92,400 (79)			
20	109,500 (55.5)	109,500 (65.5)	109,000 (71)	78,600 (75.5)	69,000 (78.5)		
25	83,300 (46)	83,250 (59)	83,150 (66.5)	67,450 (72)	59,250 (75.5)	54,000 (78)	42,000 (80)
30	66,150 (33.5)	66,200 (52.5)	66,100 (62)	59,100 (68)	51,350 (72.5)	49,700 (75.5)	42,000 (79)
35		49,350 (45)	49,350 (57)	49,350 (64.5)	45,200 (69.5)	43,650 (73)	40,450 (75.5)
40		38,300 (36)	38,300 (52)	38,300 (60.5)	38,300 (66)	38,900 (70.5)	35,950 (73.5)
45		30,600 (23.5)	30,600 (46)	30,600 (56.5)	30,600 (62.5)	33,550 (67.5)	32,250 (71)
50		(20.0)	24,850 (39.5)	24,850 (52)	24,850 (59.5)	27,550 (64.5)	28,550 (68.5)
60			16,900 (20.5)	16,900 (42)	16,900 (52)	19,300 (59)	20,050 (63.5)
70			(====)	11,700 (29)	11,700 (43.5)	13,850 (52.5)	14,500 (58.5)
80				(20)	8,020 (33.5)	9,990 (45.5)	10,550 (52.5)
90					5,270 (18)	7,110 (37)	7,610 (46.5)
100					(10)	4,880 (26)	5,330 (39)
110						(20)	3,510 (30.5)
120							2,030 (16.5)
Minimum	boom angle (deg.)	) for indicated len	gth (no load)				0
Maximum	boom length (ft.)	at 0 degree boom	angle (no load)				130
	Boom angles are	in degrees.					A6-829-011002
Boom Angle	42	55	70	85	100	115	130
<b>0</b> °	37,350 (34.4)	24,550 (47.7)	15,300 (62.7)	8,770 (77.7)	4,560 (93.0)	3,480 (107.7)	1,710 (122.4)

A6-829-011003A

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12



NOTE: () Boom angles are in degrees.

\*This capacity is based upon maximum boom angle.

3,360

(28)

2,000

A6-829-010976A

3,360

(31)

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This information is for reference use only. Operators manual should be consulted and adhered to.

Please contact Bigge Crane and Rigging Co. at 888-337-BIGGE or email info@bigge.com for further information.

TM9120

140

150

3,360

(30.5)

2,000 (19.5)

11,300

(60.5)

10,500 (54.5)

9,310 (48.5)

6,840

(41.5)

4,890

(33.5)

3,290

(21.5)

9,850

(63)

9,340 (57)

8,940 (51)

6,840

(44)

4,890

(35)

NOTE: () Boom angles are in degrees.

70

80

90

100

110

120

13,400 (58)

12,150 (52.5)

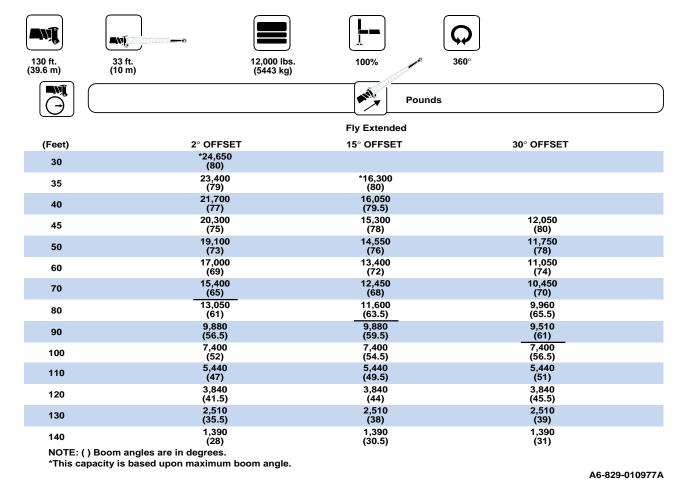
9,310 (46.5)

6,840

(39.5)

4,890

(31.5)



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<sup>\*</sup>This capacity is based upon maximum boom angle.

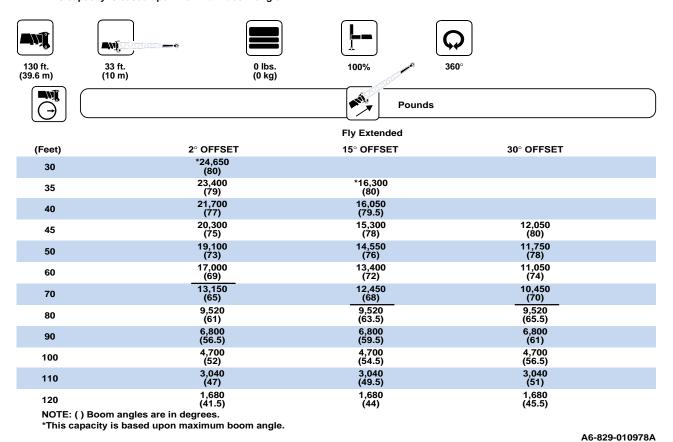
1,020 (21.5)

NOTE: () Boom angles are in degrees.

110

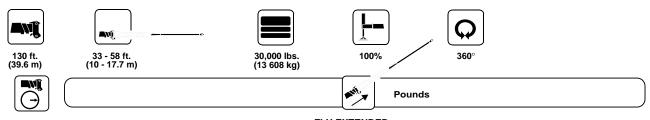
120

1,020 (20.5)



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<sup>\*</sup>This capacity is based upon maximum boom angle.



#### **FLY EXTENDED**

	33 FT. LE	NGTH (Fully F	Retracted)	4	18 FT. LENGT	н	58 FT. LEI	NGTH (Fully E	xtended)
(Feet)	2°	15°	30°	2°	15°	30°	2°	15°	30°
	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET
30	*24,250 (80)								
35	23,000 (79)	*15,900 (80)		*16,500 (80)					
40	21,300 (77)	15,650 (79.5)		15,400 (79)			13,200 (80)		
45	19,900 (75)	14,900 (78)	11,650 (80)	14,400 (77)	*10,500 (80)		12,200 (78.5)		
50	18,700 (73)	14,150 (76)	11,350 (78)	13,500 (75.5)	10,200 (78.5)		11,450 (77)	*8,500 (80)	
60	16,600	13,000	10,650	12,050	9,310	7,500	10,250	7,870	*6,100
	(69)	(72)	(74)	(72)	(75)	(78)	(73.5)	(77)	(80)
70	15,000	12,050	10,050	10,850	8,570	7,030	9,170	7,260	5,910
	(65)	(68)	(70)	(68.5)	(71.5)	(74.5)	(70)	(73.5)	(77)
80	13,600	11,200	9,550	9,800	7,940	6,660	8,320	6,710	5,530
	(61)	(63.5)	(65.5)	(64.5)	(67.5)	(71)	(66.5)	(70)	(73.5)
90	12,450	10,500	9,100	8,920	7,400	6,300	7,570	6,260	5,250
	(56.5)	(59.5)	(61)	(60.5)	(64)	(67)	(63)	(66.5)	(70)
100	11,250	9,860	8,750	8,210	6,960	6,010	7,010	5,840	5,000
	(52)	(54.5)	(56.5)	(56.5)	(59.5)	(63)	(59.5)	(63)	(66.5)
110	8,550	8,550	8,440	7,620	6,540	5,800	6,470	5,470	4,770
	(47)	(49.5)	(51)	(52.5)	(55.5)	(58.5)	(55.5)	(59)	(62.5)
120	6,650	6,650	6,650	7,080	6,170	5,560	5,980	5,160	4,600
	(41.5)	(44)	(45.5)	(48)	(51)	(53.5)	(51.5)	(55)	(58)
130	5,070	5,070	5,070	6,250	5,860	5,400	5,550	4,860	4,430
	(35.5)	(38)	(39)	(43)	(46)	(48.5)	(47)	(50.5)	(53.5)
140	3,740	3,740	3,740	4,870	4,870	4,870	5,200	4,630	4,280
	(28)	(30.5)	(31)	(37.5)	(40.5)	(43)	(42.5)	(45.5)	(48.5)
150	2,600 (17.5)	2,600 (19.5)		3,690 (31)	3,690 (34)	3,690 (36)	4,350 (37)	4,350 (40.5)	4,190 (43)
160				2,680 (23)	2,680 (25.5)		3,330 (31)	3,330 (34)	3,330 (36)
170				1,790 (7)			2,430 (23)	2,430 (25.5)	
180							1,640 (7)		

NOTE: () Boom angles are in degrees

A6-829-010915C

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<sup>\*</sup>This capacity is based upon maximum boom angle.

#### FLY FULLY RETRACTED (FLY LOCK PIN DISENGAGED)

	33 FT. LE	NGTH (Fully I	Retracted)	4	18 FT. LENGT	Н	58 FT. LENGTH (Fully Extended)		
(Feet)	2° OFFSET	15° OFFSET	30° OFFSET	2° OFFSET	15° OFFSET	30° OFFSET	2° OFFSET	15° OFFSET	30° OFFSET
25	24,250 (79.5)								
30	22,600 (77)	15,900 (80)		16,500 (79)					
35	20,750 (75)	15,550 (78)	*11,700 (80)	15,200 (77)			13,200 (78.5)		
40	19,200 (72.5)	14,650 (75.5)	11,500 (78)	14,050 (75)	10,500 (78.5)		12,100 (77)		
45	17,750 (70)	13,750 (73)	11,200 (75.5)	13,050 (73)	10,100 (76.5)		11,150 (75)	8,500 (79)	
50	16,500 (68)	13,050 (70.5)	10,750 (73)	12,200 (71)	9,540 (74.5)	7,700 (78.5)	10,500 (73)	8,120 (77)	
60	14,650 (63)	11,900 (65.5)	10,050 (68)	10,750 (66.5)	8,620 (70)	7,150 (74)	9,220 (69)	7,390 (73)	6,100 (77.5)
70	13,000 (58)	10,900 (60.5)	9,430 (63)	9,550 (62)	7,870 (65.5)	6,670 (69.5)	8,200 (64.5)	6,720 (69)	5,610 (73.5)
80	11,750 (52.5)	10,100 (54.5)	8,920 (57)	8,570 (57)	7,250 (61)	6,240 (64.5)	7,360 (60.5)	6,180 (64.5)	5,250 (69)
90	10,650 (46.5)	9,400 (48.5)	8,520 (51)	7,800 (52)	6,730 (56)	5,920 (59.5)	6,710 (56)	5,690 (60)	4,950 (64)
100	9,780 (39.5)	8,830 (41.5)	8,180 (44)	7,140 (46.5)	6,250 (50.5)	5,630 (54)	6,100 (51)	5,290 (55)	4,690 (59)
110	8,270 (31.5)	8,270 (33.5)	8,050 (35)	6,520 (40.5)	5,860 (44.5)	5,410 (47.5)	5,560 (46)	4,920 (49.5)	4,480 (53.5)
120	6,260 (20.5)	6,260 (21.5)		6,050 (34)	5,540 (37.5)	5,260 (40)	5,150 (40)	4,630 (44)	4,290 (47.5)
130				5,590 (25)	5,180 (28.5)	4,990 (30)	4,740 (33.5)	4,300 (37)	4,130 (40)
140				4,765 (9.5)			4,370 (25)	4,030 (28)	
150							4,060 (10)		

NOTE: ( ) Boom angles are in degrees.

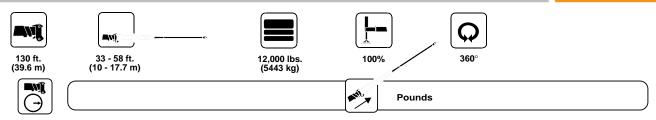
\*This capacity is based upon maximum boom angle.

A6-829-010994

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TM9120



#### **FLY EXTENDED**

	33 FT. LE	NGTH (Fully I	Retracted)		48 FT. LENGT	н	58 FT. LENGTH (Fully Extended)		
<b>(=</b> 1)	2°	15°	30°	2°	15°	30°	2°	15°	30°
(Feet)	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET
30	*24,250 (80)								
35	23,000 (79)	*15,900 (80)		*16,500 (80)					
40	21,300 (77)	15,650 (79.5)		15,400 (79)			13,200 (80)		
45	19,900 (75)	14,900 (78)	11,650 (80)	14,400 (77)	*10,500 (80)		12,200 (78.5)		
50	18,700 (73)	14,150 (76)	11,350 (78)	13,500 (75.5)	10,200 (78.5)		11,450 (77)	*8,500 (80)	
60	16,600 (69)	13,000 (72)	10,650 (74)	12,050 (72)	9,310 (75)	7,500 (78)	10,250 (73.5)	7,870 (77)	*6,100 (80)
70	15,000 (65)	12,050 (68)	10,050 (70)	10,850 (68.5)	8,570 (71.5)	7,030 (74.5)	9,170 (70)	7,260 (73.5)	5,910 (77)
80	12,450 (61)	11,200 (63.5)	9,550 (65.5)	9,800 (64.5)	7,940 (67.5)	6,660 (71)	8,320 (66.5)	6,710 (70)	5,530 (73.5)
90	9,265 (56.5)	9,265 (59.5)	9,100 (61)	8,920 (60.5)	7,400 (64)	6,300 (67)	7,570 (63)	6,260 (66.5)	5,250 (70)
100	6,790 (52)	6,790 (54.5)	6,790 (56.5)	8,210 (56.5)	6,960 (59.5)	6,010 (63)	7,010 (59.5)	5,840 (63)	5,000 (66.5)
110	4,820 (47)	4,820 (49.5)	4,820 (51)	6,050 (52.5)	6,050 (55.5)	5,800 (58.5)	6,470 (55.5)	5,470 (59)	4,770 (62.5)
120	3,220 (41.5)	3,220 (44)	3,220 (45.5)	4,200 (48)	4,200 (51)	4,200 (53.5)	5,110 (51.5)	5,110 (55)	4,600 (58)
130	1,890 (35.5)	1,890 (38)	1,890 (39)	2,660 (43)	2,660 (46)	2,660 (48.5)	3,340 (47)	3,340 (50.5)	3,340 (53.5)
140				1,370 (37.5)	1,370 (40.5)	1,370 (43)	1,850 (42.5)	1,850 (45.5)	1,850 (48.5)

NOTE: () Boom angles are in degrees.

A6-829-010997

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.



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<sup>\*</sup>This capacity is based upon maximum boom angle.

#### FLY FULLY RETRACTED (FLY LOCK PIN DISENGAGED)

	33 FT. LE	NGTH (Fully I	Retracted)		48 FT. LENGT	н	58 FT. LE	NGTH (Fully E	xtended)
(Feet)	2° OFFSET	15° OFFSET	30° OFFSET	2° OFFSET	15° OFFSET	30° OFFSET	2° OFFSET	15° OFFSET	30° OFFSET
25	24,250 (79.5)								
30	22,600 (77)	15,900 (80)		16,500 (79)					
35	20,750 (75)	15,550 (78)	*11,700 (80)	15,200 (77)			13,200 (78.5)		
40	19,200 (72.5)	14,650 (75.5)	11,500 (78)	14,050 (75)	10,500 (78.5)		12,100 (77)		
45	17,750 (70)	13,750 (73)	11,200 (75.5)	13,050 (73)	10,100 (76.5)		11,150 (75)	8,500 (79)	
50	16,500 (68)	13,050 (70.5)	10,750 (73)	12,200 (71)	9,540 (74.5)	7,700 (78.5)	10,500 (73)	8,120 (77)	
60	14,650 (63)	11,900 (65.5)	10,050 (68)	10,750 (66.5)	8,620 (70)	7,150 (74)	9,220 (69)	7,390 (73)	6,100 (77.5)
70	13,000 (58)	10,900 (60.5)	9,430 (63)	9,550 (62)	7,870 (65.5)	6,670 (69.5)	8,200 (64.5)	6,720 (69)	5,610 (73.5)
80	11,750 (52.5)	10,100 (54.5)	8,920 (57)	8,570 (57)	7,250 (61)	6,240 (64.5)	7,360 (60.5)	6,180 (64.5)	5,250 (69)
90	8,710 (46.5)	8,710 (48.5)	8,520 (51)	7,800 (52)	6,730 (56)	5,920 (59.5)	6,710 (56)	5,690 (60)	4,950 (64)
100	6,250 (39.5)	6,250 (41.5)	6,250 (44)	7,140 (46.5)	6,250 (50.5)	5,630 (54)	6,100 (51)	5,290 (55)	4,690 (59)
110	4,290 (31.5)	4,290 (33.5)	4,290 (35)	5,780 (40.5)	5,780 (44.5)	5,410 (47.5)	5,560 (46)	4,920 (49.5)	4,480 (53.5)
120	2,690 (20.5)	2,690 (21.5)		4,160 (34)	4,160 (37.5)	4,160 (40)	4,910 (40)	4,630 (44)	4,290 (47.5)
130				2,820 (25)	2,820 (28.5)	2,820 (30)	3,500 (33.5)	3,500 (37)	3,500 (40)
140				1,690 (9.5)			2,310 (25)	2,310 (28)	
150							1,300 (10)		

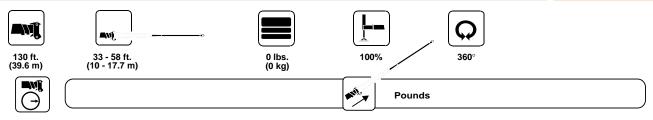
A6-829-010995

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TM9120



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



#### **FLY EXTENDED**

	33 FT. LE	NGTH (Fully I	Retracted)	1	48 FT. LENGT	н	58 FT. LEI	NGTH (Fully E	xtended)
(Feet)	2°	15°	30°	2°	15°	30°	2°	15°	30°
	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET
30	*24,250 (80)								
35	23,000 (79)	*15,900 (80)		*16,500 (80)					
40	21,300 (77)	15,650 (79.5)		15,400 (79)			13,200 (80)		
45	19,900 (75)	14,900 (78)	11,650 (80)	14,400 (77)	*10,500 (80)		12,200 (78.5)		
50	18,700 (73)	14,150 (76)	11,350 (78)	13,500 (75.5)	10,200 (78.5)		11,450 (77)	*8,500 (80)	
60	16,600	13,000	10,650	12,050	9,310	7,500	10,250	7,870	*6,100
	(69)	(72)	(74)	(72)	(75)	(78)	(73.5)	(77)	(80)
70	12,550	12,050	10,050	10,850	8,570	7,030	9,170	7,260	5,910
	(65)	(68)	(70)	(68.5)	(71.5)	(74.5)	(70)	(73.5)	(77)
80	8,900	8,900	8,900	9,800	7,940	6,660	8,320	6,710	5,530
	(61)	(63.5)	(65.5)	(64.5)	(67.5)	(71)	(66.5)	(70)	(73.5)
90	6,180	6,180	6,180	7,550	7,400	6,300	7,570	6,260	5,250
	(56.5)	(59.5)	(61)	(60.5)	(64)	(67)	(63)	(66.5)	(70)
100	4,090	4,090	4,090	5,270	5,270	5,270	6,000	5,840	5,000
	(52)	(54.5)	(56.5)	(56.5)	(59.5)	(63)	(59.5)	(63)	(66.5)
110	2,420	2,420	2,420	3,450	3,450	3,450	4,190	4,190	4,190
	(47)	(49.5)	(51)	(52.5)	(55.5)	(58.5)	(55.5)	(59)	(62.5)
120	1,070	1,070	1,070	1,970	1,970	1,970	2,710	2,710	2,710
	(41.5)	(44)	(45.5)	(48)	(51)	(53.5)	(51.5)	(55)	(58)
130							1,480 (47)	1,480 (50.5)	1,480 (53.5)

NOTE: () Boom angles are in degrees.

A6-829-010998

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<sup>\*</sup>This capacity is based upon maximum boom angle.

#### FLY FULLY RETRACTED (FLY LOCK PIN DISENGAGED)

	33 FT. LE	NGTH (Fully I	Retracted)	48 FT. LENGTH		58 FT. LENGTH (Fully Extended)			
(F1)	2°	15°	30°	2°	15°	30°	2°	15°	30°
(Feet)	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET	OFFSET
25	24,250 (79.5)								
30	22,600 (77)	15,900 (80)		16,500 (79)					
35	20,750 (75)	15,550 (78)	*11,700 (80)	15,200 (77)			13,200 (78.5)		
40	19,200 (72.5)	14,650 (75.5)	11,500 (78)	14,050 (75)	10,500 (78.5)		12,100 (77)		
45	17,750 (70)	13,750 (73)	11,200 (75.5)	13,050 (73)	10,100 (76.5)		11,150 (75)	8,500 (79)	
50	16,500 (68)	13,050 (70.5)	10,750 (73)	12,200 (71)	9,540 (74.5)	7,700 (78.5)	10,500 (73)	8,120 (77)	
60	14,650 (63)	11,900 (65.5)	10,050 (68)	10,750 (66.5)	8,620 (70)	7,150 (74)	9,220 (69)	7,390 (73)	6,100 (77.5)
70	11,650 (58)	10,900 (60.5)	9,430 (63)	9,550 (62)	7,870 (65.5)	6,670 (69.5)	8,200 (64.5)	6,720 (69)	5,610 (73.5)
80	8,090 (52.5)	8,090 (54.5)	8,090 (57)	8,570 (57)	7,250 (61)	6,240 (64.5)	7,360 (60.5)	6,180 (64.5)	5,250 (69)
90	5,430 (46.5)	5,430 (48.5)	5,430 (51)	7,050 (52)	6,730 (56)	5,920 (59.5)	6,710 (56)	5,690 (60)	4,950 (64)
100	3,380 (39.5)	3,380 (41.5)	3,380 (44)	4,940 (46.5)	4,940 (50.5)	4,940 (54)	5,780 (51)	5,290 (55)	4,690 (59)
110	1,750 (31.5)	1,750 (33.5)	1,750 (35)	3,240 (40.5)	3,240 (44.5)	3,240 (47.5)	3,890 (46)	3,890 (49.5)	3,890 (53.5)
120				1,880 (34)	1,880 (37.5)	1,880 (40)	2,350 (40)	2,350 (44)	2,350 (47.5)
130							1,080 (33.5)	1,080 (37)	1,080 (40)

NOTE: ( ) Boom angles are in degrees

A6-829-010996

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TM9120



<sup>\*</sup>This capacity is based upon maximum boom angle.









Over Rear



30,000 lbs. (13 608 kg)



**Pounds** 

#### FLY FULLY RETRACTED (FLY LOCK PIN DISENGAGED)

(Feet)	Stationary Capacity	*1 MPH Capacity
10	118,500 (a)	83,500 (a)
12	109,000 (a)	76,950 (a)
15	83,700 (a)	68,600 (a)
20	55,350 (a)	55,350 (a)
25	40,500 (a)	40,500 (a)
30	31,400 (b)	31,400 (b)
35	25,100 (c)	25,100 (c)
40	19,800 (d)	19,800 (d)
45	15,850 (d)	15,850 (d)
50	12,750 (d)	12,750 (d)
55	10,250 (d)	10,250 (d)
60	8,200 (d)	8,180 (d)
65	6,480 (e)	6,110 (e)
70	5,020 (e)	4,360 (e)
75	3,770 (e)	2,860 (e)
80	2,680 (e)	1,550 (e)
85	1,730 (e)	

#### NO LOAD STABILITY DATA

Rear (No Load)	Main Boom 100 ft.
Minimum boom angle (degrees) for indicated length	19
Maximum boom length (feet) at 0° boom angle	85

**Maximum Permissible Boom Lengths:** 

- (a) 42 ft. (b) 55 ft.
- (c) 70 ft. (d) 85 ft.
- (e) 100 ft.

\*For 1 MPH pick and carry operation, boom must be centered over rear of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range, travel should be reduced to creep speed.

A6-829-011135A

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(5443 kg)









# FLY FULLY RETRACTED (FLY LOCK PIN DISENGAGED)

**Pounds** 

(Feet)	Stationary Capacity	*1 MPH Capacity
10	118,500 (a)	83,500 (a)
12	106,000 (a)	76,950 (a)
15	73,600 (a)	68,600 (a)
20	46,400 (b)	46,400 (b)
25	32,150 (b)	32,150 (b)
30	23,400 (c)	23,400 (c)
35	17,500 (c)	17,500 (c)
40	13,450 (c)	13,450 (c)
45	10,350 (c)	10,350 (c)
50	7,980 (c)	7,680 (e)
55	6,050 (c)	5,400 (e)
60	4,460 (c)	3,520 (e)
65	3,140 (e)	1,955 (e)
70	2,010 (e)	
75	1,040 (e)	

#### **NO LOAD STABILITY DATA**

Rear (No Load)	Main Boom 100 ft.
Minimum boom angle (degrees) for indicated length	38
Maximum boom length (feet) at 0° boom angle	70

**Maximum Permissible Boom Lengths:** 

- (a) 42 ft.
- (b) 55 ft.
- (c) 70 ft.
- (d) 85 ft.
- (e) 100 ft.

\*For 1 MPH pick and carry operation, boom must be centered over rear of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range, travel should be reduced to creep speed.

A6-829-011139A

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TM9120











Over Rear

42 - 130 ft. (12.8 - 39.6 m)

(0 kg)



**Pounds** 

#### FLY FULLY RETRACTED (FLY LOCK PIN DISENGAGED)

(Feet)	Stationary Capacity	*1 MPH Capacity
10	113,000 (a)	83,500 (a)
12	82,100 (a)	76,950 (a)
15	56,700 (a)	56,700 (a)
20	35,500 (b)	35,500 (b)
25	24,400 (c)	24,400 (c)
30	17,600 (d)	17,600 (d)
35	12,950 (e)	12,950 (e)
40	9,550 (e)	9,290 (e)
45	6,960 (e)	6,250 (e)
50	4,930 (e)	3,880 (e)
55	3,300 (e)	1,970 (e)
60	1,960 (e)	

Rear	Main Boom
(No Load)	100 ft.
Minimum boom angle (degrees) for indicated length	47

**Maximum Permissible Boom Lengths:** 

Maximum boom length (feet) at 0° boom angle

(a) 42 ft. (b) 55 ft.

(c) 70 ft.

(d) 85 ft.

(e) 100 ft.

\*For 1 MPH pick and carry operation, boom must be centered over rear of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range, travel should be reduced to creep speed.

A6-829-011140A

55

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# Working range





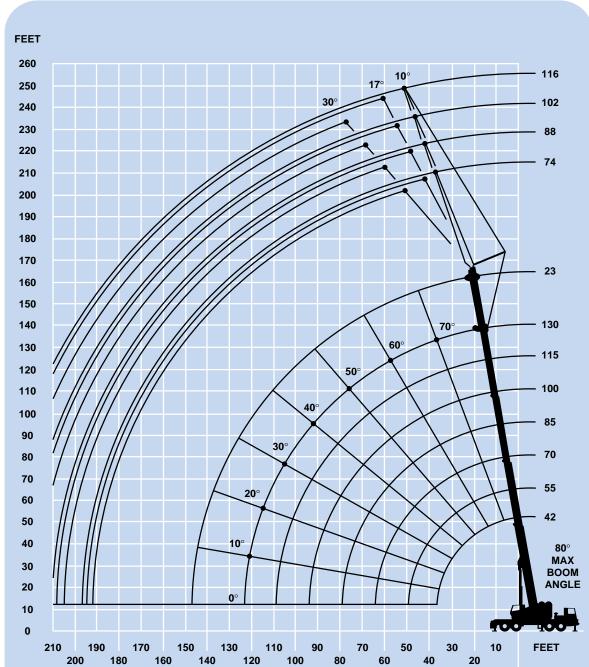


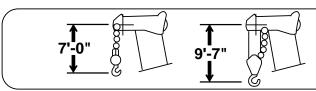


(12.8 - 39.6 m)

42 - 130 ft.

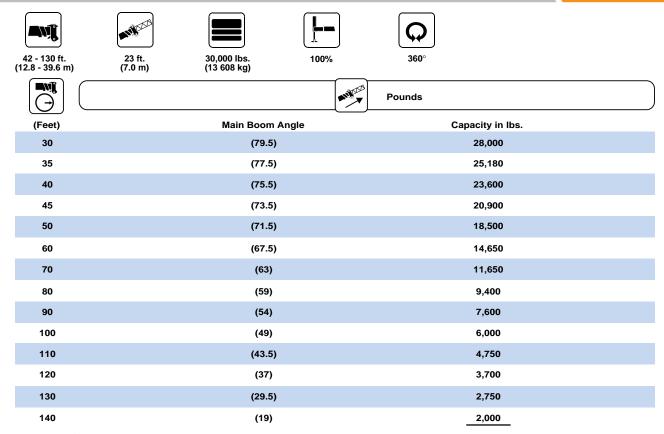
(7.0 - 35.3 m)





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

AXIS OF ROTATION →



NOTE: () Reference loaded main boom angle with fully extended boom.

A6-829-011189A

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30,000 lbs. (13 608 kg) 74 - 116 ft. (22.6 - 35.3 m)







**Pounds** 

	74 ft. JIB (28 ft. ext. + 46 ft. jib)					ĺ	88 ft.	JIB (28 ft. e	xt. + 60 ft.	jib)		
	10° OF	FSET	17° OF	FSET	30° OFF	SET	10° OF	FSET	17° OFF	SET	30° OFF	SET
Boom Angle	Rad. Ref. (ft.)*	Cap. lbs.**	Rad. Ref. (ft.)*	Cap. lbs.**	Rad. Ref. (ft.)*	Cap. lbs.**	Rad. Ref. (ft.)*	Cap. lbs.**	Rad. Ref. (ft.)*	Cap. lbs.**	Rad. Ref. (ft.)*	Cap. lbs.**
80	46.0	9,000	50.1	8,850	59.2	8,330	51.4	7,080	57.9	6,480	70.3	5,950
77.5	54.3	7,950	58.6	7,950	67.3	7,440	60.7	6,220	67.0	5,670	78.6	4,890
75	62.7	7,900	67.2	7,610	75.5	7,120	70.0	6,200	76.1	5,380	87.2	4,730
72.5	71.0	7,850	75.5	7,270	83.4	6,850	78.9	6,170	84.8	5,150	95.5	4,590
70	79.0	7,800	83.9	6,990	91.2	6,640	87.9	6,140	93.4	4,970	103.4	4,470
67.5	86.9	7,750	91.6	6,750	98.8	6,430	96.6	6,120	101.9	4,780	111.2	4,350
65	94.7	7,700	99.4	6,530	106.2	6,230	105.0	6,020	110.0	4,630	118.8	4,270
62.5	102.4	7,640	107.0	6,330	113.3	6,070	113.2	5,870	118.1	4,510	126.2	4,170
60	109.7	6,810	114.3	6,160	120.3	5,370	121.3	5,240	125.8	4,390	133.2	4,090
55	123.7	5,070	128.4	4,720	133.2	4,490	136.5	4,030	140.3	3,640	146.6	3,370
50	136.7	3,660	141.0	3,450	145.0	3,330	150.5	2,760	153.6	2,580	158.8	2,490
45	148.6	2,580	152.6	2,460	155.8	2,400	163.0	1,790	165.9	1,690	169.6	1,660
40	159.4	1,750	163.0	1,690	165.2	1,670						

102 ft. JIB (28 ft. ext. + 74 ft. jib)					I	116 ft.	JIB (28 ft.	ext. + 88 ft.	jib)			
	10° OF	FSET	17° OF	FSET	30° OFF	SET	10° OF	FSET	17° OFF	SET	30° OFF	SET
Boom Angle	Rad. Ref. (ft.)*	Cap. lbs.**										
80	58.1	5,590	64.8	4,890	78.7	3,510	62.8	3,680	73.2	3,460	89.6	2,920
77.5	67.7	4,820	74.6	4,270	87.9	3,380	73.9	3,000	84.0	2,790	99.6	2,400
75	77.3	4,570	84.1	4,260	96.8	3,250	84.7	2,780	94.6	2,600	109.5	2,250
72.5	86.9	4,320	93.3	4,250	105.5	3,110	95.4	2,570	105.0	2,410	119.0	2,100
70	96.3	4,110	102.5	4,060	114.1	2,970	105.8	2,410	115.1	2,260	128.3	1,990
67.5	105.4	3,930	111.4	3,820	122.6	2,840	115.9	2,210	124.9	2,090	137.3	1,900
65	114.3	3,760	120.0	3,620	130.6	2,750	125.8	2,100	134.4	1,990	145.9	1,830
62.5	123.0	3,620	128.6	3,410	138.4	2,650	135.3	1,990	143.5	1,900	154.2	1,750
60	131.3	3,520	136.7	3,210	145.9	2,550	144.5	1,960	152.3	1,880	162.2	1,720
55	147.2	3,030	152.0	2,670	160.0	2,400	161.9	1,520	168.9	1,500	176.9	1,460
50	161.9	1,960	166.2	1,820	172.6	1,780						
45	175.1	1,060	178.8	1,020	183.9	1,000						

<sup>\*</sup>Reference radius refers to fully extended boom and appropriate jib length. 
\*\*Capacities at loaded main boom angle.

A6-829-011832

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.



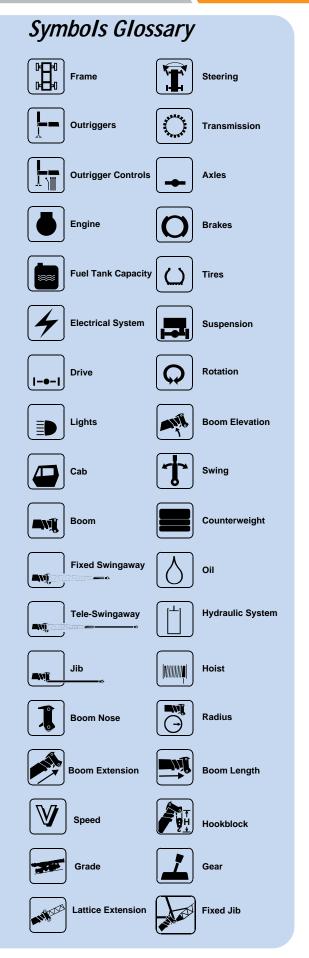


# Rated Lifting Capacities

#### **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.

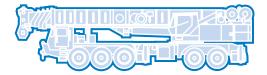
- 1. All rated loads meet ANSI/ASME B30.5, Mobile and Locomotive Cranes. Testing and development were performed to SAE J1063, Cantilevered Boom Crane Structures, Method of Test, and SAE J765, Crane Stability Test Code.
- 2. Rated loads include the weight of hookblock, slings and auxiliary lifting devices and their weights shall be subtracted from the listed rating to obtain the net load to be lifted. When more than the minimum required hoist reeving is used, the additional rope weight shall be considered part of the load to be handled.
- 3. Capacities appearing above the bold line are based on structural strength. Tipping should not be relied upon as a capacity indication.
- 4. The machine shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires 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 next longer or shorter boom length shall be used.
- 6. For outrigger operation, outriggers shall be properly extended with tires raised free of crane weight before operating the boom or lifting loads.





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