

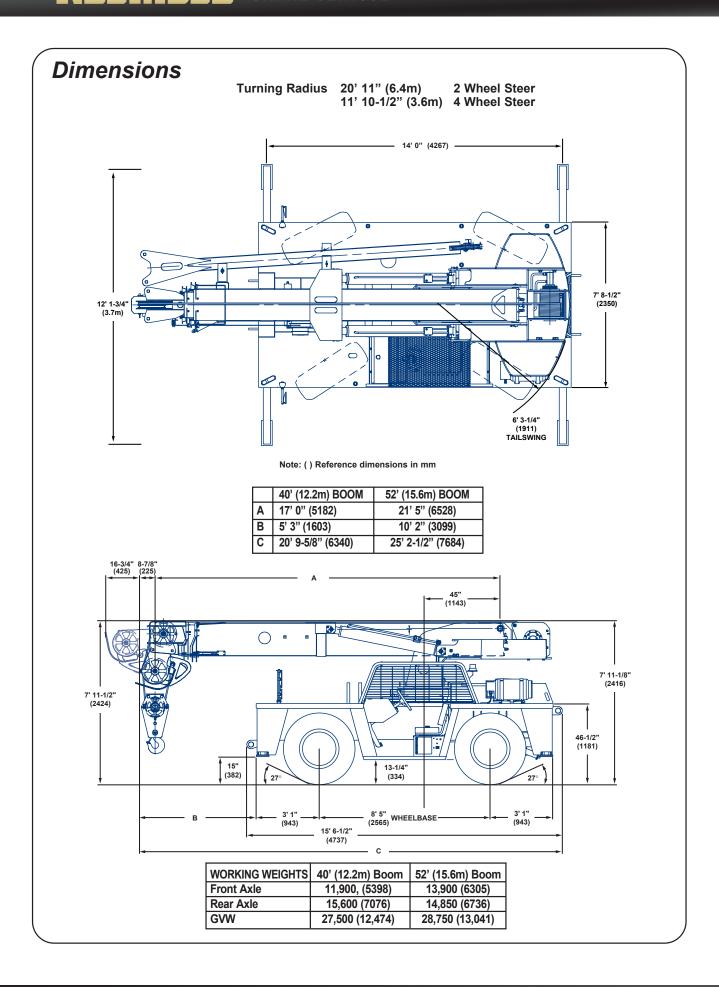
GROVE®

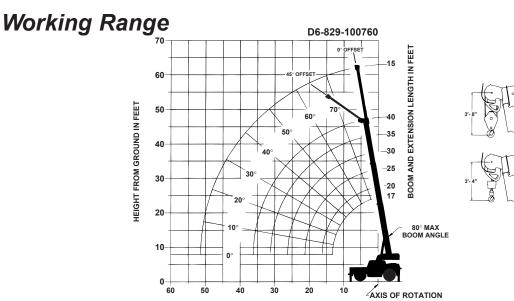
YB4415/YB4415XT



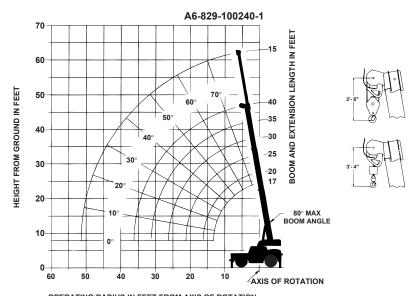
INDUSTRIAL CRANE

.

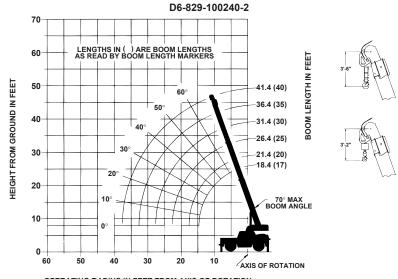




OPERATING RADIUS IN FEET FROM AXIS OF ROTATION BOOM DEFLECTION NOT SHOWN



OPERATING RADIUS IN FEET FROM AXIS OF ROTATION BOOM DEFLECTION NOT SHOWN



OPERATING RADIUS IN FEET FROM AXIS OF ROTATION BOOM DEFLECTION NOT SHOWN



Superstructure Specifications

17 ft. - 40 ft. (5.1 m - 12.2 m) three-section full power boom. Maximum tip height: 47 ft. (14.4 m). Speeds: 32 seconds (ext.); 19 seconds (retract).

*Optional Boom

21 ft. - 52 ft. (6.5 m - 15.6 m) three-section full power boom. Maximum tip height: 59 ft. (18.0 m). Speeds: 43 seconds (ext.); 25 seconds (retract).

*Fixed Boom Extension (non-offsettable)

15 ft. (4.6 m) swingaway extension w/single metallic sheave in point. Stows alongside base boom section for travel. Extends tip heights to 62 ft. (18.9 m) or 74 ft. (22.5 m) with the 40 ft. (12.2 m) and 52 ft. (15.6 m) booms respectively.

*Offsettable Boom Extension

15 ft. (4.6 m) swingaway extension w/single metallic sheave in point. Stows alongside base boom section for travel. Extends tip heights to 62 ft. (18.9 m) or 74 ft. (22.5 m) with the 40 ft. (12.2 m) and 52 ft. (15.6 m) booms respectively. Can be offset at 0° or 45° to increase up and over reach.

Boom Nose

Two (2) position low profile and quick reeve design with two metallic sheaves mounted on tapered roller bearings and quick removable pin-type rope guards. Head pivots forward (up) to the low profile position (1-2 parts of line only & max 70° boom elevation) for minimizing head space requirements or rearward (down) to the conventional position for maximum lifts that exceed 2 parts of line reeving or approximately 18,000 lbs. (8165 kg).

Boom Elevation

Twin double acting hydraulic cylinders with integral holding valves provide elevation from 0° to 80°. Mechanical boom angle indicator. Speeds: 20 seconds (ext.) 14 seconds (retract).

Anti-Two Block Device - The standard low profile type anti-two block device, when activated, provides an audible-visual warning to the crane operator and disengages all crane functions whose movement can cause two-blocking.

*Rated Capacity Limiter (RCL)

A simple, effective and easy to use overload protection system in conjunction with a low profile type anti-two block (A2B) device assists the operator in the efficient operation of the unit. The RCL system constantly monitors actual lifting conditions versus allowable capacity ratings to assist in preventing an overload condition. It provides the operator with a visual pre-warning at approximately 90% of the rated capacity and an audible-visual warning in combination with automatic lockout at approximately 100% of rated capacity.

Ball bearing swing circle with 360° continuous rotation. Hydraulic motor driven worm and gear reducer. Maximum speed: 2.0 RPM.

Counterweight

4,300 lbs. (1950 kg) w/40 ft. (12.2 m) boom; 4,800 lbs. (2177 kg) w/52 ft. (15.6 m) boom; bolted to the turntable.

Hydraulic System

Three (3) section main gear pumps driven off torque converter through PTO.

Combined capacity: 75 GPM (285 LPM).

Maximum system operating pressure: 3,500 psi (241 bar).

Three valve banks mounted on top of dash panel with direct mechanical linkage low effort lever controls.

Return line type filter with full flow by-pass protection and service indicator. 10 micron rated replaceable cartridges.

54 gallon (205 L) reservoir with sight level gauge and steel plate to quard against side impact damage.

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

System pressure and flow test ports with quick release type fittings

HOIST SPECIFICATIONS - Model HP12-13G

Planetary reduction with automatic spring applied multi-wet-disc brake and grooved hoist drum. *Cable follower available.

Drum Dim. (Dia. x Lg.) 10.63" x 13.4" (270 mm x 341 mm)

Maximum Single Line Pull: 10,930 lbs. (4958 kg)

134 - 178 FPM Maximum Single Line Speed: (41 - 54 m/min)

Maximum Permissible Single Line Pull:

Standard Rope 5/8" (16 mm)

(6 x 37 Class): 9,080 lbs. (3.5:1 FOS)

(4119 kg)

*Optional Rope 5/8" (16 mm)

(18 x 19 Class): 9,080 lbs. (5:1 FOS)

(4119 kg)

Rope Length (Std.): 250 ft. (76.2 m) w/40 ft. (12.2 m) boom

310 ft. (94.5 m) w/52 ft. (15.6 m) boom

Maximum Rope Stowage: 374 ft. of 5/8"

(114 m of 16 mm)

269 ft. of 5/8" Usable:

(82 m of 16 mm)

^{*}Denotes optional equipment



Chassis Specifications

Frame

High strength alloy steel construction with integral outrigger housings; front/rear lifting, towing and tie down lugs and recessed lifting points in all four corners of deck top. Carry deck constructed of 1/4" (6 mm) thick plate steel w/surface area of 66 sq. ft. (6.1 m²) and anti-skid deck treatment.

Outriggers

Front and rear oblique type beams at all four corners with integral holding valves. Outrigger pads form an integral part of the beam and have a surface area of 103 sq. in. (665 cm²).

Maximum outrigger pad load: 26,539 lbs. (12 038 kg).

Outrigger Controls, Synchronized

Controls are located on dash panel and operate beams in pairs from side to side. Two hand sequence minimizes unintentional actuation. Sight leveling bubbles located inside operator's compartment. *Independent control of each individual beam is available.

Engine, Dual Fuel (Gas/LPG)

General Motors 4.3 L, six cylinder, dual fuel (LPG/gas) engine, 115 bhp (85 kW) (Gross) @ 2,500 RPM. 100 amp alternator.

Maximum torque: 275 ft. lbs. (373 Nm) @ 2,200 RPM.

*Engine, Diesel

Cummins 4BT3.9 L turbo-charged diesel, four cylinder, 110 bhp (82 kW) (Gross) @ 2,500 RPM. Maximum torque: 293 ft. lbs. (397 Nm) @ 1,500 RPM.

Operator's Control Station

The frame mounted, open air style control station with overhead canopy includes all crane function and driving controls. Other standard equipment includes a durable nylon cushion seat with lap belt; hourmeter; sight level bubble and fire extinguisher. The dash panel includes engine oil pressure gauge; engine water temperature gauge; voltmeter; all critical engine monitoring instruments; engine/transmission A/V distress system; outrigger controls; *A2B warning indicators; parking/emergency brake toggle switch with warning light and hooded panel light. The dash panel also includes an RCL panel and RCL warning indicators when the machine is equipped with the *RCL. All control valves are mounted on top of dash area for ease of operation and increased leg room.

Overhead Canopy

Tubular steel construction with steel mesh covering on top and right side grill type guard. Not available with enclosed cab option.

*Cab, Enclosed

Fully enclosed galvannealed sheet metal structure replaces standard overhead canopy. Includes hot water forced air heater/defroster, safety glass throughout, hinged removable door, sliding left and right side glass for cross ventilation, door lock, electric windshield wiper/ washer, fixed skylight glass, circulating air fan, rear deck storage shelf area behind operator's seat.

Fuel Tank Capacity

46 gallon (175 L) all steel construction w/steel plate to guard against side impact damage.

Electrical System

One 12 V - maintenance free battery. 875 CCA. Includes standard 12 V remote slave receptacle wired directly to the starter to facilitate jump starting. Automotive type color coded fuses, number coded wiring and water tight connectors.

Drive

4 x 2 - Front axle drive only with planetary hubs and limited slip differential. *4 x 4 (YB4415XT) - Front and rear drive/steer axles with planetary hubs and limited slip differentials.

Steering

All wheel $(\bar{4}$ wheel), full hydraulic power via steering wheel permits two modes of operation: 2 wheel (rear only) or four-wheel coordinated. Inside dashmounted selector switch to select steering mode.

Transmission

Remote mounted Clark 3 speed forward and reverse full powershift w/engine mounted torque converter and stalk type shift control mounted to the steering column. Controls permit quick and easy shuttle control between forward and reverse travel.

Axles

Front: Planetary drive/steer with internal multi-wet-disc brakes and limited slip differential.

Rear: (4 x 2) Fabricated steer axle with internal wet disc brakes.

Rear: (4 x 2) Fabricated steer axle with internal wet disc brakes. (4x4 drive) Planetary drive/steer with internal wet disc brakes and limited slip differential.

Tires

Standard 385/65R22.5-18 PR tubeless radial traction tread.

Suspension

Front: Mounted rigid to frame.

Rear: Mounted on rubber blocks to permit oscillation for operation on semiunimproved terrain.

Brakes

Hydraulic actuated internal wet-disc service brakes acting on all four wheels. A dash mounted toggle switch activates the dry disc parking brake on the transmission output yoke with a dash mounted warning light. Parking brake acts on both front wheels of 2 wheel drive models and on all 4 wheels of *4 wheel drive (XT) models.

Lights

Recessed mounted behind grill type frame cutouts and includes head, tail, turn signals, brake and 4-way hazard warning lights.

Maximum Speed

19 MPH (30 kph)

Gradeability (Theoretical)

75% (Based on 27,000 lbs. [12 247 kg] GVW).

*Tow Winch

Hydraulic winch mounted behind the front bumper area and operated from within the operator's compartment using the Swing/Tow winch control lever via selector switch. Hydraulic powered unit has a bare drum pull of 6,000 lbs. (2722 kg) at 48 ft./min. (14.6 m/min.) single line speed. Includes 100 ft. (30.5 m) length of 3/8" diameter 6 x 25 EIPS IWRC wire rope, hook and thimble, 4 way roller guide and winch mounted drum release lever to permit free spooling the rope from the drum. Winch is not designed for any type of vertical lifting.

Miscellaneous Standard Equipment

Hookblock tiedown sling, electronic combination two-tone back-up and outrigger motion alarm, front and rear running lights, tool stowage well, 15 ton (15 MT) capacity two sheave quick reeve hookblock, powertrain audio-visual distress warning system, 12 V remote slave receptacle for jump starting, R/S convex rearview mirror.

*Optional Equipment

- * Worklight package consists of three 12V, ball mounted, manually adjustable worklights (2-cab/canopy mounted and 1 boom mounted)
- * 360° amber flashing light wired to ignition switch
- * Ether injection & block heater cold weather starting kit (less canister) for diesel only
- * Engine block heater only (Dual Fuel Engine)
- * Pintle hooks front/rear
- * Carry deck posts
- * Spark arrestor muffler(s) (Dual Fuel only)
- * Sound suppression package for under 90 dBa cab noise levels
- * Dual rearview west coast mirrors
- * Hydraulic system oil cooler
- * Quick Reeve Overhaul weight with 5 ton (4.5 MT) hook
- * Engine tachometer, dash mounted
- * Deluxe operator's fabric seat w/spring suspension and dual armrests

^{*}Denotes optional equipment



RATED LIFTING CAPACITIES IN POUNDS ON OUTRIGGERS FULLY EXTENDED - 360°

17 FT. - 40 FT. BOOM

Radius		N	lain Boom L	ength in Fe	et	
in Feet	* 17 (18.4)	* 20 (21.4)	* 25 (26.4)	* 30 (31.4)	* 35 (36.4)	*40 (41.4)
6	30,000	28,950	28,200	27,850	27,650	
8	28,050	28,100	28,150	27,800	26,400	23,750
10	23,000	23,100	23,150	23,200	22,450	20,650
12	18,100	18,250	18,350	18,450	18,500	17,550
14		14,750	14,850	14,900	14,950	14,950
16		12,300	12,450	12,450	12,500	12,500
18			10,600	10,650	10,700	10,700
20			9,070	9,070	9,070	9,070
22				7,760	7,760	7,760
24				6,740	6,740	6,740
26				5,930	5,930	5,930
28					5,260	5,260
30					4,710	4,710
32						4,240
34						3,840
36						3,490
Mir	nimum boom	angle (°) fo	or indicated	length (no lo	ad)	0
Maxim	um boom le	ngth (ft.) at (degree bo	om angle (n	o load)	40
	Liftir		at Zero Deg ers Fully Ex		ingle	
Boom		IV	lain Boom L	ength in Fe	et	
Angle	* 17 (18.4)	* 20 (21.4)	* 25 (26.4)	* 30 (31.4)	* 35 (36.4)	* 40 (41.4)
0°	9,080 (13.3)	8,100 (16.3)	5,940 (21.3)	4,600 (26.3)	3,720 (31.3)	3,070 (36.3)

Note: () Reference radii in feet. (Applicable to boom nose sheaves in down position only.)

A6-829-100221B

- 1. Capacities do not exceed 85% of tipping loads as determined by test in accordance with SAE J765.
- 2. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- 3. With boom nose sheaves down (in lower position), single, 2-part or 4-part line may be used. With boom nose sheaves up and out (low profile position), single or 2-part line may be used, with maximum boom angle limited to 70°.

^{*}Boom length varies between boom nose sheaves in down position (in bold), or up & out position (in parenthesis).



RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY - 360°

Radius	Main Boom Length in Feet					
in				_		
Feet	* 17 (18.4)	* 20 (21.4)	* 25 (26.4)	*30 (31.4)	* 35 (36.4)	* 40 (41.4)
6	14,700	14,700	14,700	14,700	14,700	
8	11,500	11,500	11,500	11,500	11,500	11,500
10	8,930	8,930	9,050	9,050	9,050	9,050
12	6,900	7,020	7,020	7,020	7,020	7,020
14		5,400	5,540	5,620	5,680	5,780
16		4,320	4,510	4,540	4,600	4,600
18			3,600	3,740	3,850	3,850
20			2,990	3,120	3,150	3,200
22				2,590	2,650	2,650
24				2,110	2,170	2,200
26				1,740	1,820	1,820
28					1,440	1,560
30					1,280	1,280
32				,		1,060
34						860
36						770
Mir	imum boon	angle (°) fo	r indicated	length (no lo	ad)	0
Maxim	um boom le	ngth (ft.) at (degree bo	om angle (n	o load)	40
	Liftir	ng Capacity O	at Zero Deg n Rubber 36		ngle	
Boom		N	lain Boom L	ength in Fe	et	
Angle	* 17 (18.4)	* 20 (21.4)	* 25 (26.4)	*30 (31.4)	*35 (36.4)	*40 (41.4)
0°	5,990 (13.3)	4,230 (16.3)	2,430 (21.3)	1,680 (26.3)	1,130 (31.3)	770 (36.3)
0°	5,990	4,230 (16.3)	2,430 (21.3)	1,680 (26.3)	1,130 (31.3)	770

Note: () Reference radii in feet. (Applicable to boom nose sheaves in down position only.)

A6-829-100222B

*Boom length varies between boom nose sheaves in down position (in bold), or up & out position (in parenthesis).

- 1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- 2. Capacities are applicable to machines equipped with 385/65R22.5(J) Firestone T839 tires at 140 psi cold inflation pressure.
- 3. Defined Arc Over front includes 6° on either side of longitudinal centerline of machine.
- 4. Capacities are applicable only with machine on firm level surface.
- All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
- 6. For pick and carry operation, the boom, using the shortest practical boom length, must be centered over front of machine. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speed*. 2.5 m.p.h. capacities are permissible on main boom only, NOT on boom extension.
- $^{\star}\text{Creep}$ not over 200 ft. of movement in any 30 minute period and not exceeding 1 mph.
- 7. With boom nose sheaves down (in lower position), single, 2-part or 4-part line may be used. With boom nose sheaves up and out (low profile position), single or 2-part line may be used, with maximum boom angle limited to 70°.

PICK & CARRY AND STATIONARY - DEFINED ARC OVER FRONT

Radius		N	lain Boom L	ength in Fe	et	
Feet	* 17 (18.4)	* 20 (21.4)	* 25 (26.4)	* 30 (31.4)	*35 (36.4)	*40 (41.4)
6	18,700	18,700	18,700	18,700	18,700	
8	15,050	15,050	15,050	15,050	15,050	15,050
10	12,500	12,500	12,500	12,500	12,500	12,500
12	10,600	10,600	10,600	10,600	10,600	10,600
14		9,190	9,190	9,190	9,190	9,190
16		8,040	8,040	8,040	8,040	8,040
18			6,870	6,870	6,870	6,870
20			5,760	5,760	5,760	5,760
22		,		4,910	4,910	4,910
24				4,250	4,250	4,250
26				3,620	3,710	3,710
28					3,270	3,270
30					2,800	2,880
32						2,580
34						2,110
36						1,620
Mir	nimum boom	n angle (°) fo	r indicated	length (no lo	ad)	0
Maxim	um boom le	ngth (ft.) at (degree bo	om angle (n	o load)	40
		ng Capacity Rubber - De				
Boom		N	lain Boom L	ength in Fe	et	
Angle	* 17 (18.4)	* 20 (21.4)	* 25 (26.4)	* 30 (31.4)	* 35 (36.4)	*40 (41.4)
0°	9,690 (13.3)	7,920 (16.3)	5,210 (21.3)	3,610 (26.3)	2,630 (31.3)	1,520 (36.3)

Note: () Reference radii in feet. (Applicable to boom nose sheaves in down position only.)

A6-829-100223B

*Boom length varies between boom nose sheaves in down position (in bold), or up & out position (in parenthesis).



15 FT. EXTENSION RATED LIFTING CAPACITIES IN POUNDS

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius		N	lain Boom L	ength in Fe	et	
in Feet	17	20	25	30	35	40
6	9,080	9,080	9,080	9,080		
8	9,080	9,080	9,080	9,080	9,080	9,080
10	8,850	9,080	9,080	9,080	9,080	9,080
12	7,860	8,450	9,080	9,080	9,080	9,080
14	7,060	7,610	8,480	9,080	9,080	9,080
16	6,410	6,590	7,730	9,080	9,080	8,900
18	5,870	6,340	7,100	8,390	8,330	8,090
20	5,410	5,850	6,570	7,750	7,640	7,420
22	5,020	5,440	6,110	7,260	7,040	6,840
24	4,680	5,070	5,710	6,720	6,530	6,340
26	4,380	4,760	5,360	6,140	6,070	5,900
28	3,740	4,380	5,050	5,480	5,480	5,480
30		4,190	4,770	4,930	4,930	4,930
32			4,410	4,470	4,470	4,470
34			3,790	4,070	4,070	4,070
36			2,730	3,730	3,730	3,730
38				3,420	3,420	3,420
40				3,160	3,160	3,160
45					2,610	2,610
50						2,190
		g Capacity a On Outrigge				
Boom		N	lain Boom L	ength in Fe	et	
Angle	17	20	25	30	35	40
3°	2,700 (29)	2,450 (32)	1,990 (37)	1,560 (42)	1,240 (47)	1,000 (52)

Note: () Ref. radii in feet.

A6-829-100224D

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads on outriggers in accordance with SAE J765.
- 2. 15 ft. boom extension may be used for single line lifting service only.
- 3. **WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 4. Capacities listed are with fully extended outriggers only.
- 5. No load stability on outriggers fully extended 360° with 15 ft. extension installed:
 - a. Minimum boom angle for 40 ft. main boom = 0°
 - b. Maximum main boom length at 0° main boom angle = 40 ft.
- 6. When lifting loads the minimum allowable boom angle is 3°.

15 FT. EXTENSION RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY 360°

Radius in		N	lain Boom L	ength in Fe	et	
Feet	17	20	25	30	35	40
6	8,070	8,070	8,070	**8,070		
8	8,070	8,070	8,070	8,070	**7,550	
10	8,070	8,070	8,070	8,070	7,550	7,040
12	7,850	7,840	7,710	7,710	7,550	7,040
14	6,400	6,300	6,200	6,000	5,890	5,890
16	5,250	5,130	5,030	5,030	5,030	5,030
18	4,470	4,420	4,420	4,420	4,310	4,210
20	3,790	3,790	3,650	3,650	3,620	3,590
22	3,260	3,260	3,120	3,120	3,010	3,010
24	2,820	2,760	2,640	2,610	2,610	2,570
26	2,460	2,430	2,340	2,300	2,300	2,300
28	2,170	2,100	2,040	1,980	1,980	1,980
30		1,880	1,820	1,720	1,690	1,690
32	,		1,560	1,530	1,470	1,440
34			1,390	1,330	1,250	1,250
36			1,150	1,150	1,060	1,060
38				960	880	880
40				830	700	700
45					520	520
	Liftin		at Three De ber Stationa	gree Boom i iry - 360°	Angle	
Boom		N	lain Boom L	ength in Fe	et	
Angle	17	20	25	30	35	
3°	2,110 (29)	1,760 (32)	1,100 (37)	750 (42)	490 (47)	

** This capacity based on maximum boom angle Note: () Ref. radii in feet.

A6-829-100225D

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping loads on rubber in accordance with SAE J765.
- 2. 15 ft. boom extension may be used for single line lifting service only.

 3. Defined Arc Over front includes 6° on either side of longitudinal centerline of machine. Pick and carry lifting NOT. 5. Definition of the finite includes of the finite state of the fi

- pressures. Damaged tires are hazardous to safe operation of crane.

 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping
- with boom extension occurs rapidly and without advance warning. 8. No load stability on rubber 360° with 15 ft. extension installed:
- - a. Minimum boom angle for 40 ft. main boom = 30° b. Maximum main boom length at 0° main boom angle = 35 ft.
- 9. When lifting loads the minimum allowable boom angle is 3°

15 FT EXTENSION RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY - DEFINED ARC OVER FRONT

Radius in	Main Boom Length in Feet						
Feet	17	20	25	30	35	40	
6	8,070	8,070	8,070	**8,070			
8	8,070	8,070	8,070	8,070	7,550		
10	8,070	8,070	8,070	8,070	7,550	7,550	
12	7,850	8,070	8,070	8,070	7,550	7,550	
14	7,060	7,610	8,070	8,070	7,550	7,550	
16	6,410	6,590	7,730	8,070	7,550	7,550	
18	5,870	6,340	7,100	7,760	7,550	7,550	
20	5,410	5,850	6,520	6,520	6,520	6,520	
22	5,020	5,440	5,580	5,580	5,580	5,580	
24	4,680	4,840	4,840	4,840	4,840	4,840	
26	4,240	4,240	4,240	4,240	4,240	4,240	
28	3,740	3,750	3,750	3,750	3,750	3,750	
30		3,330	3,330	3,330	3,330	3,330	
32			2,980	2,980	2,980	2,980	
34			2,680	2,680	2,680	2,680	
36			2,410	2,410	2,410	2,410	
38				2,180	2,180	2,180	
40				1,970	1,970	1,970	
45					1,550	1,550	
50						1,220	
				gree Boom c Over Fron			
Boom		N	lain Boom L	ength in Fe	et	,	
Angle	17	20	25	30	35	40	
3°	2,700 (29)	2,450 (32)	1,990 (37)	1,560 (42)	1,240 (47)	1,000 (52)	

** This capacity based on maximum boom angle. Note: () Ref. radii in feet.

A6-829-100226D

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping loads on rubber in accordance with SAE J765.
- 2. 15 ft. boom extension may be used for single line lifting service only.
- 3. Defined Arc-Over front includes 6° on either side of longitudinal centerline of machine. Pick and carry lifting NOT permitted. 4. Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure.
- 5. Capacities are applicable only with machine on firm level surface
- 6. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
- 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 8. No load stability on rubber 360° with 15 ft. extension installed: a. Minimum boom angle for 40 ft. main boom = 40°

 - b. Maximum main boom length at 0° main boom angle = 30 ft.
- 9. When lifting loads the minimum allowable boom angle is 3°



15 FT. OFFSETTABLE EXTENSION AT 0° OFFSET RATED LIFTING CAPACITIES IN POUNDS

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius		N	lain Boom L	ength in Fe	et			
Feet	17	20	25	30	35	40		
6	9,080	9,080	9,080	9,080				
8	9,080	9,080	9,080	9,080	9,080	*9,080		
10	8,180	8,820	9,080	9,080	9,080	9,080		
12	7,240	7,830	8,760	9,080	9,080	9,080		
14	6,500	7,030	7,890	8,690	9,080	9,080		
16	5,840	6,390	7,170	7,920	8,630	9,080		
18	5,200	5,780	6,580	7,280	7,940	8,560		
20	4,700	5,210	6,070	6,730	7,350	7,940		
22	4,270	4,740	5,520	6,260	6,840	7,400		
24	3,910	4,340	5,060	5,780	6,400	6,940		
26	3,600	4,000	4,660	5,310	6,000	6,460		
28	3,330	3,700	4,320	4,940	5,480	5,480		
30		3,440	4,020	4,600	4,930	4,930		
32			3,760	4,300	4,470	4,470		
34			3,530	4,040	4,070	4,070		
36			3,310	3,730	3,730	3,730		
38		`		3,380	3,380	3,380		
40				3,080	3,080	3,080		
45					2,460	2,460		
50						1,980		
	Lifting Capacity at Three Degree Boom Angle On Outriggers Fully Extended - 360;							
Boom		N	lain Boom L	ength in Fe	et	•		
Angle	17	20	25	30	35	40		
3°	3,260 (29)	3,260 (32)	3,260 (37)	2,810 (42)	2,250 (47)	1,820 (52)		

Note: () Ref. radii in feet.
*This capacity based on maximum boom angle. A6-829-100724

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads on outriggers in accordance with SAE J765.
- 15 ft. boom extension may be used for single line lifting service only.
 WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Capacities listed are with fully extended outriggers only.
 No load stability on outriggers fully extended 360° with 15 ft. extension installed at 0° offset:
 - a. Minimum boom angle for 40 ft. main boom = 0° b. Maximum main boom length at 0° main boom angle = 40 ft.
- 6. When lifting loads the minimum allowable boom angle is 3° at 0° offset.

15 FT. OFFSETTABLE EXTENSION AT 45° OFFSET RATED LIFTING CAPACITIES IN POUNDS

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in	Main Boom Length in Feet							
Feet	17	20	25	30	35	40		
12	4,310							
14	4,140	4,210	4,300					
16	4,000	4,070	4,170	4,240	4,300			
18	3,890	3,950	4,050	4,130	4,200	4,260		
20	3,810	3,860	3,960	4,040	4,110	4,170		
22	3,740	3,800	3,880	3,960	4,030	4,090		
24		3,740	3,820	3,890	3,960	4,020		
26			3,780	3,830	3,900	3,960		
28			3,720	3,790	3,850	3,900		
30				3,760	3,810	3,850		
32					3,780	3,820		
34					3,740	3,790		
36					3,710	3,730		
38						3,380		
			orty Eight I rs Fully Ext					
Boom		N	lain Boom L	ength in Fe	et			
Angle	17	20	25	30	35	40		
48° **	3,710 (23.5)	3,710 (25.7)	3,710 (29.2)	3,710 (32.7)	3,670 (36.3)	3,110 (39.8)		
Note: () Ref.		ion at horizont	al		A6	-829-100725		

** Radii are with the extension at horizontal.

- NOTES:

 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads on outriggers in accordance with SAE J765.

 2. 15 ft. boom extension may be used for single line lifting service only.
- 2. To it. boome extension may be used for single line limiting service only.

 3. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

 4. Capacities listed are with fully extended outriggers only.

 5. No load stability on outriggers fully extended 380° with 15 ft. extension installed at 45° offset:

 a. Minimum boom angle for 40 ft. main boom = 45°

 b. Maximum main boom length at 45° main boom angle = 40 ft.

 6. When lifting loads the minimum allowable boom angle is 48° at 45° offset.



15 FT. OFFSETTABLE EXTENSION AT 0° OFFSET RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY 360°

Radius	Main Boom Length in Feet							
in Feet	17	20	25	30	35	40		
6	8,070	8,070	8,070	*8,070				
8	8,070	8,070	8,070	8,070	*7,550			
10	8,070	8,070	8,070	8,070	7,550	7,040		
12	7,240	7,710	7,710	7,710	7,550	7,040		
14	6,400	6,300	6,200	6,000	5,780	5,780		
16	4,970	4,920	4,920	4,620	4,570	4,570		
18	4,170	4,170	4,120	3,900	3,900	3,860		
20	3,660	3,660	3,440	3,390	3,390	3,180		
22	3,110	3,060	2,960	2,790	2,680	2,680		
24	2,680	2,580	2,490	2,430	2,330	2,330		
26	2,330	2,280	2,160	2,000	2,000	2,000		
28	2,070	2,050	2,040	1,910	1,810	1,700		
30		1,810	1,750	1,610	1,560	1,440		
32	ì		1,440	1,390	1,340	1,230		
34			1,260	1,190	1,080	1,030		
36			1,110	1,060	950	950		
38				860	810	690		
40				830	700	600		
	Liftin		at Three De Rubber - 3	gree Boom . 60°	Angle			
Boom		N	lain Boom L	ength in Fe	et			
Angle	17	20	25	30				
3°	1,940 (29)	1,660 (32)	1,080 (37)	750 (42)				

Note: () Ref. radii in feet.
*This capacity based on maximum boom angle.

A6-829-100726

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping loads on rubber in accordance with SAE J765.

 2. 15 ft. boom extension may be used for single line lifting service only.
- Defined Arc Over front includes 6° on either side of longitudinal centerline of machine. Pick and carry lifting NOT permitted.
- Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure.
 Capacities are applicable only with machine on firm level surface.
- All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
 WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping
- with boom extension occurs rapidly and without advance warning.

 8. No load stability on rubber 360° with 15 ft. extension installed at 0° offset:
- - a. Minimum boom angle for 40 ft. main boom = 38° ; for 35 ft. main boom = 20° b. Maximum main boom length at 0° main boom angle = 30 ft.
- 9. When lifting loads the minimum allowable boom angle is 3° at 0° offset

15 FT. OFFSETTABLE EXTENSION AT 45° OFFSET RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY 360°

Radius Main Boom Length in Feet							
in			1			ı	
Feet	17	20	25	30	35	40	
12	4,310						
14	4,140	4,210	4,300				
16	4,000	4,070	4,170	4,240	*4,300		
18	3,890	3,950	4,050	4,130	4,200	4,260	
20	3,700	3,700	3,700	3,700	3,700	3,700	
22	3,160	3,160	3,160	3,160	3,160	3,160	
24		2,730	2,730	2,730	2,730	2,730	
26			2,370	2,370	2,370	2,370	
28			2,070	2,070	2,030	2,030	
30				1,760	1,760	1,760	
32				1,570	1,570	1,570	
34					1,320	1,270	
36						1,040	
38						860	
	Lifting (Capacity at F On	orty Eight I Rubber - 3		m Angle		
Boom		N	lain Boom L	ength in Fe	et		
Angle	17	20	25	30	35	40	
48° **	2,830 (23.5)	2,425 (25.7)	1,920 (29.2)	1,530 (32.7)	1,100 (36.3)	670 (39.8)	

Note: () Ref. radii in feet.

* This capacity based on maximum boom angle.

** Radii are with the extension at horizontal.

A6-829-100727

- NOTES:

 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping loads on rubber in accordance with SAE J765.
- 103 to 103 to 11 tubes in accordance with SAE 700.

 2. 15 ft. boom extension may be used for single line lifting service only.

 3. Defined Arc Over front includes 6° on either side of longitudinal centerline of machine. Pick and carry lifting NOT permitted.
- 4. Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure.
- Capacities are applicable only with machine on firm level surface.
 All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
- 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping
- with boom extension occurs rapidly and without advance warning.

 8. No load stability on rubber 360° with 15 ft. extension installed at 45° offset:

 - a. Minimum boom angle for 40 ft. main boom = 45°
 b. Maximum main boom length at 45° main boom angle = 40 ft.
- 9. When lifting loads the minimum allowable boom angle is 48° at 45° offset

15 FT. OFFSETTABLE EXTENSION AT 0° OFFSET RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY - DEFINED ARC OVER FRONT

Radius		N	lain Boom L	ength in Fe	et	Main Boom Length in Feet						
in Feet	17	20	25	30	35	40						
6	8,070	8,070	8,070	*8,070								
8	8,070	8,070	8,070	8,070	7,550							
10	8,070	8,070	8,070	8,070	7,550	7,550						
12	7,240	7,830	8,070	8,070	7,550	7,550						
14	6,500	7,030	7,890	8,070	7,550	7,550						
16	5,840	6,390	7,170	7,920	7,550	7,550						
18	5,200	5,780	6,580	7,280	7,550	7,550						
20	4,700	5,210	6,070	6,520	6,520	6,520						
22	4,270	4,740	5,520	5,580	5,580	5,580						
24	3,910	4,340	4,840	4,840	4,840	4,840						
26	3,600	4,000	4,240	4,240	4,240	4,240						
28	3,330	3,700	3,750	3,750	3,750	3,750						
30		3,300	3,300	3,300	3,300	3,300						
32			2,930	2,930	2,930	2,930						
34			2,600	2,600	2,600	2,600						
36			2,320	2,320	2,320	2,320						
38				2,070	2,070	2,070						
40				1,850	1,850	1,850						
45					1,400	1,400						
50						1,050						
		g Capacity On Rubber										
Boom		N	lain Boom L	ength in Fe	et							
Angle	17	20	25	30	35	40						
3°	2,700 (29)	2,450 (32)	1,990 (37)	1,560 (42)	1,240 (47)	930 (52)						

Note: () Ref. radii in feet.
*This capacity based on maximum boom angle.

A6-829-100728

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping loads on rubber in accordance with SAE J765.
- 2. 15 ft. boom extension may be used for single line lifting service only.
 3. Defined Arc-Over front includes 6° on either side of longitudinal centerline of machine. Pick and carry lifting NOT permitted.
- Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure.
 Capacities are applicable only with machine on firm level surface.
- 6. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
- Pressures. Lambaged unles are nazarouse as oake operation to tains.

 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 8. No load stability on rubber (defined arc) with 15 ft. extension installed at 0° offset:

 a. Minimum boom angle for 40 ft. main boom = 0°

 b. Maximum main boom length at 0° main boom angle = 40 ft.
- 9. When lifting loads the minimum allowable boom angle is 3° at 0° offset.

15 FT. OFFSETTABLE EXTENSION AT 45° OFFSET RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY - DEFINED ARC OVER FRONT

Radius		N	lain Boom L	ength in Fe	et	
in Feet	17	20	25	30	35	40
12	4,310					
14	4,140	4,210	4,300			
16	4,000	4,070	4,170	4,240	4,300	
18	3,890	3,950	4,050	4,130	4,200	4,260
20	3,810	3,860	3,960	4,040	4,110	4,170
22	3,740	3,800	3,880	3,960	4,030	4,090
24		3,740	3,820	3,890	3,960	4,020
26			3,780	3,830	3,900	3,960
28			3,720	3,750	3,750	3,750
30				3,310	3,310	3,310
32				2,930	2,930	2,930
34					2,610	2,610
36						2,320
38						2,080
				Degree Boo c Over Fron		
Boom		N	lain Boom L	ength in Fe	et	
Angle	17	20	25	30	35	40
48° **	3,710 (23.5)	3,710 (25.7)	3,470 (29.2)	2,810 (32.7)	2,280 (36.3)	1,880 (39.8)

Note: () Ref. radii in feet.

** Radii are with the extension at horizontal.

A6-829-100729

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping 1. All capacities above the both line are based on structural strength of both extension and do not exceed 75% of upping loads on rubber in accordance with SAE J765.

 2. 15 ft. boom extension may be used for single line lifting service only.

 3. Defined Arc-Over front includes 6° on either side of longitudinal centerline of machine. Pick and carrylifting NOT permitted.

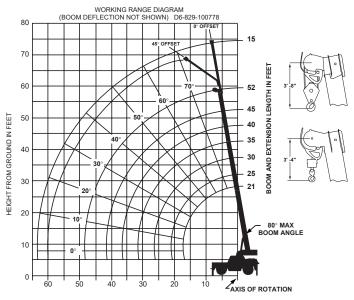
 4. Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure.

 5. Capacities are applicable only with machine on firm level surface.

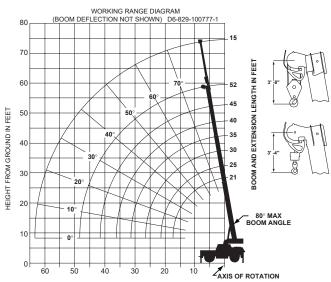
 6. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation.

- pressures. Damaged tires are hazardous to safe operation of crane
- 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping
- with boom extension occurs rapidly and without advance warning.

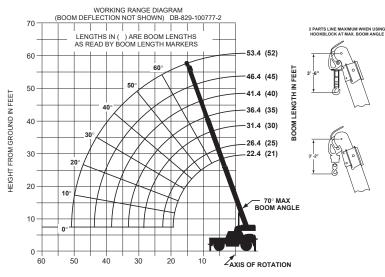
 8. No load stability on rubber (defined arc) with 15 ft. extension installed at 45° offset:
 a. Minimum boom angle for 40 ft. main boom = 45°
 b. Maximum main boom length at 45° main boom angle = 40 ft.
- 9. When lifting loads the minimum allowable boom angle is 48° at 45° offset.



OPERATING RADIUS IN FEET FROM AXIS OF ROTATION



OPERATING RADIUS IN FEET FROM AXIS OF ROTATION



OPERATING RADIUS IN FEET FROM AXIS OF ROTATION

RATED LIFTING CAPACITIES IN POUNDS ON OUTRIGGERS FULLY EXTENDED - 360°

21 FT. - 52 FT. BOOM

Radius in		Main Boom Length in Feet								
Feet	* 21 (22.8)	* 25 (26.4)	* 30 (31.4)	* 35 (36.4)	* 40 (41.4)	* 45 (46.4)	* 52 (53.4)			
6	30,000	25,450	25,100	24,900	**24,200					
8	27,600	25,450	25,100	24,900	24,200	**21,800				
10	22,350	22,450	22,550	22,600	22,650	21,800	**18,500			
12	18,200	18,300	18,400	18,500	18,500	18,550	18,300			
14	15,150	15,250	15,300	15,400	15,400	15,450	15,500			
16	12,550	12,700	12,750	12,800	12,850	12,900	12,900			
18		10,750	10,850	10,900	10,950	10,950	11,000			
20		9,270	9,400	9,450	9,490	9,500	9,500			
22			8,090	8,090	8,090	8,090	8,090			
24			7,000	7,000	7,000	7,000	7,000			
26			6,130	6,130	6,130	6,130	6,130			
28				5,410	5,410	5,410	5,410			
30				4,820	4,820	4,820	4,820			
32					4,310	4,310	4,310			
34					3,880	3,880	3,880			
36					3,510	3,510	3,510			
38						3,180	3,180			
40						2,890	2,890			
44							2,410			
48							2,020			
	Minimum	boom angle	(0°) for indi	cated length	n (no load)		0			
	Maximum	boom leng	th (ft.) at 0°	boom angle	(no load)		52			
				o Degree Bolly Extended						
Boom			Main B	oom Length	in Feet					
Angle	* 21 (22.8)	* 25 (26.4)	* 30 (31.4)	* 35 (36.4)	* 40 (41.4)	* 45 (46.4)	* 52 (53.4)			
0°	7,190 (17.7)	5,970 (21.3)	4,740 (26.3)	3,850 (31.3)	3,170 (36.3)	2,630 (41.3)	1,990 (48.3)			

Note: () Reference radii in feet. (Applicable to boom nose sheaves in down position only.)

A6-829-100745

- 1. Capacities do not exceed 85% of tipping loads as determined by test in accordance with SAE J765.
- 2. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- 3. With boom nose sheaves down (in lower position), single, 2-part or 4-part line may be used. With boom nose sheaves up and out (low profile position), single or 2-part line may be used, with maximum boom angle limited to 70°.

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.

^{*}Boom length varies between boom nose sheaves in down position (in bold), or up & out position (in parenthesis).

^{**}Capacity based on maximum boom angle.

RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY - 360°

Radius	Main Boom Length in Feet								
in Feet	* 21 (22.8)	* 25 (26.4)	* 30 (31.4)	* 35 (36.4)	*40 (41.4)	* 45 (46.4)	* 52 (53.4)		
6	16,400	16,400	16,400	16,400	**16,400				
8	11,900	11,900	11,900	11,900	11,900	**11,900			
10	9,190	9,190	9,190	9,190	9,190	9,190	**9,150		
12	7,350	7,350	7,350	7,350	7,350	7,350	7,270		
14	5,540	5,690	5,690	5,690	5,690	5,740	5,740		
16	4,360	4,360	4,360	4,360	4,360	4,360	4,360		
18		3,750	3,750	3,750	3,750	3,750	3,750		
20		3,000	3,000	3,000	3,000	3,000	3,000		
22			2,590	2,590	2,590	2,590	2,590		
24			2,030	2,030	2,030	2,030	2,030		
26			1,790	1,790	1,790	1,790	1,790		
28				1,500	1,500	1,500	1,500		
30				1,290	1,290	1,290	1,290		
32					1,170	1,170	1,170		
34					820	820	820		
Min	imum boom	angle (0°) f	or indicated	length (no k	oad)	24	38		
Ma	ximum boon	n length (ft.)	at 0° boom	angle (no lo	ad)	4	0		
		Lifting Ca		o Degree Bo ber 360°	oom Angle				
Boom			Main B	oom Length	in Feet				
Angle	* 21 (22.8)	* 25 (26.4)	* 30 (31.4)	* 35 (36.4)	*40 (41.4)				
0°	3,700 (17.7)	2,660 (21.3)	1,600 (26.3)	1,050 (31.3)	640 (36.3)				
Note: () Refe	erence radii in	feet. (Applicat	ole to boom no	se sheaves		A6-8	329-100746A		

*Capacity based on maximum boom angle

- 1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure.
 Defined Arc Over front includes 6° on either side of longitudinal centerline of machine.

- Capacities are applicable only with machine on firm level surface.
 All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
- Feesures. Daniaged thes are locations to safe operation to claim.

 6. For pick and carry operation, the boom, using the shortest practical boom length, must be centered over front of machine. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speed*. 2.5 m.p.h. capacities are permissible on main boom only, NOT on boom extension.
- *Creep not over 200 ft. of movement in any 30 minute period and not exceeding 1 mph.

 7. With boom nose sheaves down (in lower position), single, 2-part or 4-part line may be used. With boom nose sheaves up and out (low profile position), single or 2-part line may be used, with maximum boom angle limited to 70°.

RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

PICK & CARRY AND STATIONARY - DEFINED ARC OVER FRONT

Radius in	Main Boom Length in Feet									
Feet	* 21 (22.8)	* 25 (26.4)	* 30 (31.4)	* 35 (36.4)	*40 (41.4)	* 45 (46.4)	* 52 (53.4)			
6	19,350	19,350	19,350	19,350	**19,350					
8	15,500	15,500	15,500	15,500	15,500	**15,500				
10	12,800	12,800	12,800	12,800	12,800	12,800	**12,800			
12	10,800	10,800	10,800	10,800	10,800	10,800	10,800			
14	9,310	9,310	9,310	9,310	9,310	9,310	9,310			
16	8,100	8,100	8,100	8,100	8,100	8,100	8,100			
18		7,070	7,070	7,070	7,070	7,070	7,070			
20		6,150	6,150	6,150	6,150	6,150	6,150			
22			5,230	5,230	5,230	5,230	5,230			
24			4,500	4,500	4,500	4,500	4,500			
26			3,910	3,910	3,910	3,910	3,910			
28				3,430	3,430	3,430	3,430			
30				3,020	3,020	3,020	3,020			
32					2,680	2,680	2,680			
34					2,380	2,380	2,380			
36					2,120	2,120	2,120			
38						1,890	1,890			
40						1,690	1,690			
44							1,350			
48							1,070			
	Minimum	boom angle	(0°) for indi	cated length	n (no load)		0			
	Maximum	boom leng	th (ft.) at 0°	boom angle	(no load)		52			
			acity at Zer r - Defined							
Boom			Main B	oom Length	in Feet					
Angle	* 21 (22.8)	* 25 (26.4)	* 30 (31.4)	* 35 (36.4)	*40 (41.4)	* 45 (46.4)	* 52 (53.4)			
0°	7,190 (17.7)	5,550 (21.3)	3,850 (26.3)	2,800 (31.3)	2,090 (36.3)	1,580 (41.3)	1,060 (48.3)			

Note: () Reference radii in feet. (Applicable to boom nose sheaves in down position only.)

A6-829-100747

*Boom length varies between boom nose sheaves in down position (in bold), or up & out position (in parenthesis).

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.

^{**}Capacity based on maximum boom angle.

15 FT. EXTENSION RATED LIFTING CAPACITIES IN POUNDS

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius			Main B	oom Length	in Feet			
in Feet	21	25	30	35	40	45	52	
6	9,080	9,080	9,080	9,080				
8	9,080	9,080	9,080	9,080				
10	9,080	9,080	9,080	9,080	9,080	9,080		
12	8,370	9,080	9,080	9,080	9,080	9,080	9,080	
14	7,510	8,150	8,780	9,080	9,080	9,080	9,080	
16	6,810	7,400	8,060	8,410	8,630	8,980	9,080	
18	6,220	6,770	7,440	7,810	8,050	8,430	8,480	
20	5,630	6,240	6,920	7,500	7,770	7,940	8,030	
22	5,110	5,690	6,430	7,030	7,320	7,510	7,630	
24	4,680	5,210	5,820	6,180	6,460	7,120	7,270	
26	4,310	4,800	5,490	5,840	6,320	6,760	6,760	
28	4,000	4,450	5,090	5,730	5,980	5,980	5,980	
30	3,720	4,140	4,740	5,330	5,330	5,330	5,330	
32	3,470	3,870	4,430	4,780	4,780	4,780	4,780	
34		3,630	4,160	4,310	4,310	4,310	4,310	
36		3,410	3,900	3,900	3,900	3,900	3,900	
38			3,540	3,540	3,540	3,540	3,540	
40			3,230	3,230	3,230	3,230	3,230	
45				2,590	2,590	2,590	2,590	
50					2,090	2,090	2,090	
55						1,690	1,690	
60							1,370	
	Minimum	boom angle	e (°) for indic	cated length	(no load)		0	
	Maximum	boom leng	th (ft.) at 0°	boom angle	(no load)		52	
Lifting Capacity at Three Degree Boom Angle On Outriggers Fully Extended - 360°								
Boom			oom Length	in Feet				
Angle	21	25	30	35	40	45		
3°	3,210 (33.4)	3,210 (37)	2,950 (42)	2,370 (47)	1,920 (52)	1,550 (57)	1,150 (64)	

Note: () Ref. radii in feet.

A6-829-100754

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads on outriggers in accordance with SAE J765.
- 2. 15 ft. boom extension may be used for single line lifting service only.
- 3. **WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 4. Capacities listed are with fully extended outriggers only.
- 5. When lifting loads the minimum allowable boom angle is 3°.

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.

A

15 FT. EXTENSION RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY 360°

Radius in			Main B	oom Length	in Feet		
Feet	21	25	30	35	40	45	52
6	9,080	9,080	**9,080				
8	9,080	9,080	9,080	**9,080			
10	9,080	9,080	9,080	9,080	9,080		
12	7,970	7,970	7,970	7,910	7,860	7,860	
14	6,600	6,600	6,480	6,480	6,330	6,330	6,220
16	5,480	5,380	5,330	5,280	5,280	5,230	5,180
18	4,670	4,550	4,520	4,520	4,520	4,340	4,340
20	3,950	3,830	3,700	3,700	3,650	3,650	3,600
22	3,370	3,270	3,210	3,210	3,110	3,110	3,110
24	2,880	2,850	2,750	2,700	2,600	2,550	2,450
26	2,510	2,410	2,360	2,250	2,200	2,200	2,150
28	2,160	2,160	2,040	1,940	1,890	1,890	1,790
30	1,890	1,840	1,740	1,690	1,580	1,580	1,580
32	1,640	1,580	1,430	1,430	1,370	1,370	1,370
34		1,370	1,300	1,220	1,170	1,120	1,120
36		1,230	1,120	1,070	970	920	920
Minimum	boom angle (no l	(°) for indica load)	ted length	31	38	44	50
Maximun	n boom lengti (no l	h (ft.) at 0° bo load)	oom angle		3	10	
				ee Degree B ationary - 36			
Boom			Main B	oom Length	in Feet		
Angle	21	25					
3°	1,510	1,130					

A6-829-100755A

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping
- loads on rubber in accordance with SAE J765.

 2. 15 ft. boom extension may be used for single line lifting service only.
- 3. Defined Arc Over front includes 6° on either side of longitudinal centerline of machine. Pick and carry lifting NOT
- 4. Capacities are applicable to machines equipped with 385/65R22.5(J) Firestone T839 tires at 140 psi cold inflation pressure Capacities are applicable only with machine on firm level surface.
 All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation.
- pressures. Damaged tires are hazardous to safe operation of crane.

 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping
- with boom extension occurs rapidly and without advance warning.
- 8. When lifting loads the minimum allowable boom angle is 3°.

15 FT. EXTENSION RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY - DEFINED ARC OVER FRONT

Radius in			Main B	oom Length	in Feet		
Feet	21	25	30	35	40	45	52
6	9,080	9,080	9,080	**9,080			
8	9,080	9,080	9,080	9,080			
10	9,080	9,080	9,080	9,080	9,080	**9,080	
12	8,370	9,080	9,080	9,080	9,080	9,080	**9,080
14	7,510	8,150	8,780	9,080	9,080	9,080	9,080
16	6,810	7,400	8,060	8,410	8,600	8,600	8,600
18	6,220	6,770	7,440	7,600	7,600	7,600	7,600
20	5,630	6,240	6,760	6,760	6,760	6,760	6,760
22	5,110	5,690	5,910	5,910	5,910	5,910	5,910
24	4,680	5,110	5,110	5,110	5,110	5,110	5,110
26	4,310	4,450	4,450	4,450	4,450	4,450	4,450
28	3,920	3,920	3,920	3,920	3,920	3,920	3,920
30	3,470	3,470	3,470	3,470	3,470	3,470	3,470
32	3,080	3,080	3,080	3,080	3,080	3,080	3,080
34		2,750	2,750	2,750	2,750	2,750	2,750
36		2,460	2,460	2,460	2,460	2,460	2,460
38			2,210	2,210	2,210	2,210	2,210
40			1,990	1,990	1,990	1,990	1,990
45				1,530	1,530	1,530	1,530
50					1,170	1,170	1,170
55						880	880
	Minimum	boom angle	e (°) for indi	cated length	(no load)		0
	Maximum	boom leng	th (ft.) at 0°	boom angle	(no load)		52
			acity at Thr bber - Defin				
Boom			Main B	oom Length	in Feet		
Angle	21	25	30	35	40	45	
3°	2,850 (33.4)	2,330 (37)	1,790 (42)	1,370 (47)	1,050 (52)	780 (57)	

^{**}This capacity is based upon maximum boom angle Note: () Ref. radii in feet.

A6-829-100756

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping loads on rubber in accordance with SAE J765.

 15 ft. boom extension may be used for single line lifting service only.

- 2. To It. Doorn extension may be used for single line litting service only.
 3. Defined Arc. Over front includes 6° on either side of longitudinal centerline of machine. Pick and carry lifting NOT permitted.
 4. Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure.
 5. Capacities are applicable only with machine on firm level surface.
 6. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
 Whos lifting leads the minimum alterable boom partle is 2°.
- 8. When lifting loads the minimum allowable boom angle is 3°.

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.

Note: () Ref. radii in feet..

**This capacity based on maximum boom angle.

15 FT. OFFSETTABLE EXTENSION AT 0° OFFSET RATED LIFTING CAPACITIES IN POUNDS

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius			Main B	oom Length	in Feet					
in Feet	21	25	30	35	40	45	52			
6	9,080	9,080	*9,080							
8	9,080	9,080	9,080	9,080						
10	9,080	9,080	9,080	9,080	9,080	*9,080				
12	8,370	9,080	9,080	9,080	9,080	9,080	*9,080			
14	7,510	8,150	8,780	9,080	9,080	9,080	9,080			
16	6,810	7,400	8,060	8,410	8,630	8,980	9,080			
18	6,160	6,770	7,440	7,810	8,050	8,430	8,480			
20	5,550	6,180	6,920	7,500	7,770	7,940	8,030			
22	5,050	5,620	6,430	7,030	7,320	7,510	7,630			
24	4,620	5,150	5,820	6,180	6,460	7,120	7,270			
26	4,260	4,740	5,420	5,840	6,320	6,600	6,580			
28	3,940	4,390	5,020	5,650	5,830	5,830	5,830			
30	3,670	4,090	4,670	5,180	5,180	5,180	5,180			
32	3,420	3,820	4,370	4,630	4,630	4,630	4,630			
34		3,580	4,100	4,160	4,160	4,160	4,160			
36		3,370	3,750	3,750	3,750	3,750	3,750			
38	,		3,400	3,400	3,400	3,400	3,400			
40			3,080	3,080	3,080	3,080	3,080			
45				2,440	2,440	2,440	2,440			
50					1,940	1,940	1,940			
55						1,550	1,550			
60							1,220			
	Lifting Capacity at Three Degree Boom Angle On Outriggers Fully Extended - 360°									
Boom			Main B	oom Length	in Feet					
Angle	21	25	30	35	40	45	52			
3°	3,210 (33.4)	3,210 (37)	2,800 (42)	2,230 (47)	1,770 (52)	1,410 (57)	1,010 (64)			

Note: () Ref. radii in feet. *This capacity based on maximum boom angle

A6-829-100748A

- NOTES:

 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads on
- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads on outriggers in accordance with SAE 1765.
 2. 15 ft. offsettable boom extension may be used for single line lifting service only.

 3. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

 4. Capacities listed are with fully extended outriggers only.

 5. No load stability on outriggers fully extended 360° with 15 ft. offsettable extension installed at 0° offset:

 a. Minimum boom angle for 52 ft. main boom = 0°

 b. Maximum main boom length at 0° main boom angle = 52 ft.

 6. When lifting loads the minimum allowable boom angle is 3° at 0° offset.

15 FT. OFFSETTABLE EXTENSION AT 45° OFFSET RATED LIFTING CAPACITIES IN POUNDS

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in		Main Boom Length in Feet								
Feet	21	25	30	35	40	45	52			
12	4,450	*4,500								
14	4,280	4,350	*4,420	*4,480						
16	4,140	4,210	4,290	4,360	*4,420	*4,460				
18	4,020	4,090	4,180	4,250	4,310	4,360	4,420			
20	3,920	3,990	4,080	4,150	4,220	4,270	4,330			
22	3,850	3,910	3,990	4,070	4,130	4,190	4,260			
24	3,800	3,850	3,920	3,990	4,060	4,120	4,180			
26	3,710	3,800	3,860	3,930	3,990	4,050	4,120			
28		3,730	3,820	3,870	3,930	3,990	4,060			
30			3,780	3,830	3,880	3,940	4,000			
32			3,710	3,800	3,840	3,890	3,950			
34				3,750	3,810	3,850	3,910			
36				2,930	3,750	3,750	3,750			
38					3,400	3,400	3,400			
40						3,080	3,080			
45							2,440			
	Li			Eight Degre	e Boom Ang I - 360°	jle				
Boom			Main B	oom Length	in Feet					
Angle	21	25	30	35	40	45	52			
48° **	3,710 (26.7)	3,710 (29.2)	3,630 (32.7)	2,810 (36.3)	2,180 (39.8)	1,680 (43.3)	1,130 (48.3)			
Note: () Ref.	radii in feet.					A6-	329-100749A			

Note: () Ref. radii in feet.
*This capacity based on maximum boom angle.
**Radii are with extension at horizontal.

NOTES:

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads on

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads on outriggers in accordance with SAE J765.
2. 15 ft. offsettable boom extension may be used for single line lifting service only.
3. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
4. Capacities listed are with fully extended outriggers only.
5. No load stability on outriggers fully extended 360° with 15 ft. offsettable extension installed at 45° offset:
a. Minimum boom angle for 52 ft. main boom = 45°
b. Maximum main boom length at 45° main boom angle = 52 ft.
6. When lifting loads the minimum allowable boom angle is 48° at 45° offset.



STATIONARY 360°

Radius		N	lain Boom L	ength in Fe	et					
Feet	21	25	30	35	40	45	52			
6	9,080	9,080	*9,080							
8	9,080	9,080	9,080	*9,080						
10	9,080	9,080	9,080	9,080	9,080					
12	7,970	7,970	7,910	7,910	7,860	7,860				
14	6,360	6,360	6,360	6,360	6,220	6,220	*6,220			
16	5,280	5,280	5,180	5,180	5,180	5,180	5,180			
18	4,350	4,350	4,350	4,350	4,150	4,100	4,000			
20	3,770	3,720	3,620	3,500	3,450	3,450	3,330			
22	3,230	3,130	3,020	2,910	2,910	2,830	2,780			
24	2,730	2,680	2,570	2,520	2,470	2,370	2,370			
26	2,420	2,310	2,210	2,160	2,110	2,010	2,010			
28	2,060	2,010	1,960	1,840	1,730	1,730	1,730			
30	1,820	1,690	1,590	1,540	1,490	1,490	1,490			
32	1,580	1,470	1,350	1,300	1,240	1,240	1,240			
34		1,250	1,190	1,120	1,120	1,010	1,010			
36		1,100	1,040	920	920	810	810			
	Lifting Capacity at Three Degree Boom Angle On Rubber - 360°									
Boom			Main B	oom Length	in Feet					
Angle	21	25								
3°	1,430 (33.4)	1,090 (37)								

Note: () Ref. radii in feet.
*This capacity based on maximum boom angle

- NOTES:

 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping loads on rubber in accordance with SAE J765.

 2. 15 ft. offsettable boom extension may be used for single line lifting service only.

 3. Defined Arc - Over front includes 6° on either side of longitudinal centerline of machine. Pick and carry lifting NOT
- permitted.
- Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure.
 Capacities are applicable only with machine on firm level surface.
- 6. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation
- pressures. Damaged three are hazardous to safe operation of crane.

 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping
- with boom extension occurs rapidly and without advance warning.

 8. No load stability on rubber 360° with 15 ft. offsettable extension installed at 0° offset:

 a. Minimum boom angle for 52 ft. main boom = 50°; for 45 ft. main boom = 43°; for 40 ft. main boom = 37°; for 35 ft. main boom = 29°
- b. Maximum main boom length at 0° main boom angle = 30 ft. 9. When lifting loads the minimum allowable boom angle is 3° at 0° offset.

15 FT. OFFSETTABLE EXTENSION AT 45° OFFSET RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY 360°

Radius in	Main Boom Length in Feet								
Feet	21	25	30	35	40	45	52		
12	*4,450	*4,500							
14	4,280	4,350	*4,420	*4,480					
16	4,140	4,210	4,290	4,360	*4,420				
18	4,020	4,090	4,180	4,250	4,310	*4,360			
20	3,860	3,860	3,860	3,860	3,860	3,860	*3,860		
22	3,290	3,290	3,290	3,290	3,290	3,290	3,290		
24	2,820	2,820	2,820	2,820	2,820	2,820	2,820		
26	2,430	2,430	2,430	2,430	2,430	2,430	2,430		
28		2,100	2,100	2,100	2,100	2,100	2,100		
30			1,820	1,820	1,820	1,820	1,820		
32			1,580	1,580	1,580	1,580	1,580		
34				1,360	1,360	1,360	1,360		
36				1,110	1,110	1,110	1,110		
38					1,000	930	930		
	Li	ifting Capac		Eight Degre	e Boom Anç	jle			
Boom			Main B	oom Length	in Feet				
Angle	21	25	30	35	40				
48° **	2,310 (26.7)	1,930 (29.2)	1,500 (32.7)	1,060 (36.3)	770 (39.8)				

A6-829-100751A

- I. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping loads on rubber in accordance with SAE J765.

 2. 15 ft. offsettable boom extension may be used for single line lifting service only.
- 3. Defined Arc Over front includes 6° on either side of longitudinal centerline of machine. Pick and carry lifting NOT permitted.

 4. Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure.
- 5. Capacities are applicable only with machine on firm level surface
- Capacities are applicated with your interest and continued to the property of the
- 7. WARNING. Operation of this mactine with nearester loads than the capacities histed is st with boom extension occurs rapidly and without advance warning.

 8. No load stability on rubber 360° with 15 ft. offsettable extension installed at 45° offset:
 a. Minimum boom angle for 52 ft. main boom = 56°
 b. Maximum main boom length at 45° main boom angle = 45 ft.

 9. When lifting loads the minimum allowable boom angle is 48° at 45° offset.

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.

15 FT. OFFSETTABLE EXTENSION AT 0° OFFSET RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY - DEFINED ARC OVER FRONT

Radius	Main Boom Length in Feet								
in Feet	21	25	30	35	40	45	52		
6	9,080	9,080	*9,080						
8	9,080	9,080	9,080	9,080					
10	9,080	9,080	9,080	9,080	9,080				
12	8,370	9,080	9,080	9,080	9,080	9,080	*9,080		
14	7,510	8,150	8,780	9,080	9,080	9,080	9,080		
16	6,810	7,400	8,060	8,170	8,170	8,170	8,170		
18	6,160	6,770	7,330	7,330	7,330	7,330	7,330		
20	5,550	6,180	6,590	6,590	6,590	6,590	6,590		
22	5,050	5,620	5,720	5,720	5,720	5,720	5,720		
24	4,620	4,920	4,920	4,920	4,920	4,920	4,920		
26	4,260	4,280	4,280	4,280	4,280	4,280	4,280		
28	3,750	3,750	3,750	3,750	3,750	3,750	3,750		
30	3,310	3,310	3,310	3,310	3,310	3,310	3,310		
32	2,930	2,930	2,930	2,930	2,930	2,930	2,930		
34		2,600	2,600	2,600	2,600	2,600	2,600		
36		2,320	2,320	2,320	2,320	2,320	2,320		
38			2,070	2,070	2,070	2,070	2,070		
40			1,850	1,850	1,850	1,850	1,850		
45				1,400	1,400	1,400	1,400		
50					1,040	1,040	1,040		
			acity at Thr bber - Defin						
Boom		•	Main B	oom Length	in Feet	•			
Angle	21	25	30	35	40	45			
3°	2,700 (33.4)	2,190 (37)	1,650 (42)	1,240 (47)	920 (52)	620 (57)			

A6-829-100752A

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping loads on rubber in accordance with SAE J765.
- 2. 15 ft. offsettable boom extension may be used for single line lifting service only.
- 3. Defined Arc Over front includes 6° on either side of longitudinal centerline of machine. Pick and carry lifting NOT permitted.
- 4. Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure
- 5. Capacities are applicable only with machine on firm level surface
- 6. All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. Damaged tires are hazardous to safe operation of crane.
- 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 8. No load stability on rubber (defined arc) with 15 ft. offsettable extension installed at 0° offset:
- a. Minimum boom angle for 52 ft. main boom = 21°
- b. Maximum main boom length at 0° main boom angle = 45 ft.
- 9. When lifting loads the minimum allowable boom angle is 3° at 0° offset.

15 FT. OFFSETTABLE EXTENSION AT 45° OFFSET RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY - DEFINED ARC OVER FRONT

Radius	Main Boom Length in Feet									
Feet	21	25	30	35	40	45	52			
12	4,450	*4,500								
14	4,280	4,350	*4,420	*4,480						
16	4,140	4,210	4,290	4,360	*4,420					
18	4,020	4,090	4,180	4,250	4,310	4,360				
20	3,920	3,990	4,080	4,150	4,220	4,270	4,330			
22	3,850	3,910	3,990	4,070	4,130	4,190	4,260			
24	3,800	3,850	3,920	3,990	4,060	4,120	4,180			
26	3,710	3,800	3,860	3,930	3,990	4,050	4,120			
28		3,730	3,750	3,750	3,750	3,750	3,750			
30			3,310	3,310	3,310	3,310	3,310			
32			2,930	2,930	2,930	2,930	2,930			
34				2,600	2,600	2,600	2,600			
36				2,320	2,320	2,320	2,320			
38					2,070	2,070	2,070			
40						1,850	1,850			
45							1,400			
	Li		ity at Forty I ıbber - Defin			jle				
Boom			Main B	oom Length	in Feet					
Angle	21	25	30	35	40	45	52			
48° **	3,710 (26.7)	3,480 (29.2)	2,810 (32.7)	2,280 (36.3)	1,870 (39.8)	1,540 (43.3)	1,130 (48.3)			

Note: () Ref. radii in feet.

* This capacity based on maximum boom angle.

** Radii are with the extension at horizontal.

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping
- 1. All Capacities above the bold line are based on substitution and provided the bold line are based on substitution and the based on substitution and the bold line are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitution are based on substitution and the based on substitut permitted.
 4. Capacities are applicable to machines equipped with 385/65R22.5 (J) Firestone T839 tires at 140 psi cold inflation pressure.
- Capacities are applicable only with machine on firm level surface.
 All rubber lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation.
- pressures. Damaged tires are hazardous to safe operation of crane.

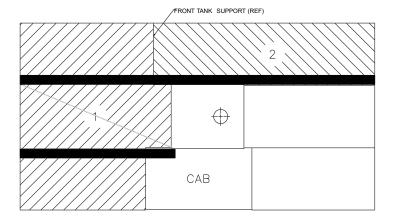
 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

 8. No load stability on rubber (defined arc) with 15 ft. offsettable extension installed at 45° offset:

- a. Minimum boom angle for 52 ft. main boom = 45°
 b. Maximum main boom length at 45° main boom angle = 52 ft.

 9. When lifting loads the minimum allowable boom angle is 48° at 45° offset.

LOAD DISTRIBUTION CHART FOR CARRY DECK



Maximum Allowable Uniformly Distributed Load

AREA 1 43.2 sq. ft. / 4.01 m² 13,195 lb. / 5,985 kg AREA 2 23.1 sq. ft. / 2.15 m² 6,805 lb. / 3,087 kg TOTAL 66.3 sq. ft. / 6.16 m² 20,000 lb. / 9,072 kg

- 1. Maximum travel speed with any or all loads 2.5 MPH (4.0 km/h)
- 2. Loads to be transported on smooth level firm surfaces only.
- 3. Boom must be retracted and in center forward position.
- 4. Any combination or total of areas 1 & 2 may be used.
- 5. Lifting is not permitted when carry deck is loaded except for loading and unloading carry deck.
- 6. Rated pick and carry loads may be transported on deck area 1 provided the load is cribbed directly on the frame rails.

LINE PULLS AND REEVING INFORMATION

HOISTS	CABLE SPECS.	PERMISSIBLE LINE PULLS	NOMINAL CABLE LENGTH
Main Model PD12C	5/8 in. (16 mm) 18x19 Class Rotation Resistant Min. Breaking Strength 45,400 lbs.	9,080 lbs.	250 ft. (40' boom) 310 ft. (52' boom)
Main Model PD12C	5/8 in. (16 mm) 6x37 Class EIPS, IWRC Special Flexible Min. Breaking Strength 41,200 lbs.	9,080 lbs.	250 ft. (40' boom) 310 ft. (52' boom)

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

40 FT. MAIN BOOM				
15' FIXED (NON-OFFSETTABLE)				
Erected	870 lb.			
Stowed	85 lb.			
15' OFFSETTABLE				
Erected	1420 lb.			
Stowed	260 lb.			
52 FT. MAIN BOOM				
15' FIXED (NON-OFFSETTABLE)				
Erected	870 lb.			
Stowed	160 lb.			
15' OFFSETTABLE				
Erected	1420 lb.			
Stowed	350 lh			

HOOKBLOCKS and HEADACHE BALLS:			
16.5 ton (15 MT) 2 Sheave (w/o quick reeve)	240 lb.		
16.5 ton (15 MT), 2 Sheave (w/quick reeve)	241 lb.		
11 ton (10 MT), 1 Sheave (w/quick reeve)	204 lb.		
5 ton Overhaul Ball (w/ quick reeve)	148 lb.		

+Refer to rating plate for actual weight.

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.

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.

GROVE

Grove Worldwide - World Headquarters

Western Hemisphere, Asia/Pacific 1565 Buchanan Trail East P.O. Box 21 Shady Grove, Pennsylvania 17256-0021, Tel: [Int + 1] (717) 597-8121 Fax: [Int + 1] (717) 597-4062

Grove Europe Limited*

Europe, Africa, Middle East (Sales & Marketing) 1 Emperor Way Doxford International Business Park Sunderland SR3 3XR, England Tel: [Int + 44] (191) 515-7253 Fax: [Int + 44] (191) 564-0442

Grove Europe Limited*

UK & EIRE (Sales & Service) Telford Road, Bicester Oxfordshire OX6 0TZ, England Tel: [Int + 44] (1869) 878-890 Fax: [Int + 44] (1869) 878-891

Deutsche Grove GmbH

Germany (Sales & Service) Helmholtzstrasse 12, Postfach 5026 D-40750 Langenfeld, Germany Tel: [Int + 49] (2173) 8909-0 Fax: [Int + 49] (2173) 8909-30

Deutsche Grove GmbH

Wilhelmshaven Works Industriegelande West, Postfach 1853 D-26358 Wilhelmshaven, Germany Tel: [Int + 49] (4421) 294-0 Fax: [Int + 49] (4421) 294-301

Grove France SAS

France (Sales & Service) 16, Chaussèe Jules-Cèsar, 95520 OSNY B.P. 203, 95523 Cergy Pontoise Tel: [Int + 33] (1) 303-13150 Fax: [Int + 33] (1) 303-86085

Grove Asia/Pacific - Representative Office

Asia/Pacific, Near East 171 Chin Swee Road #10-09 San Centre Singapore 16987 Tel: [Int + 65] 536-6112 Fax: [Int + 65] 536-6119

Grove China - Representative Office

Room 713, Towercrest Plaza No. 3 Mai Zi Dian West Road Chao Yang District Beijing, China 100016 Tel: [Int + 86] (10) 64 67 16 90 Fax: [Int + 86] (10) 64 67 16 91

Grove Middle East

P.O. Box 290 Dubai, United Arab Emirates Tel: [Int + 971] (4) 3484478 Fax: [Int + 971] (4) 3484478

Lifetime Customer Support

Western Hemisphere, Asia/Pacific 1086 Wayne Avenue Chambersburg, Pennsylvania 17201 Tel: [Int + 1] (717) 263-5100 Fax: [Int + 1] (717) 267-0404

Europe, Africa, Middle East Grove Europe Limited' 1 Emperor Way Doxford International Business Park Sunderland SR3 3XR, England Tel: [Int + 44] (191) 565-6281 Parts Fax: [Int + 44] (191) 515-7475 Service Fax: [Int + 44] (191) 515-7340

*Grove Europe Limited, Registered in England, Number 1845128.

http://www.groveworldwide.com

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.

GROVE® and GROVE LOGO are registered trademarks of GROVE in the U.S. and/or other countries. Copyright® 2000 GROVE. All rights reserved.

Distributed By:

Bigge Crane and Rigging Co.

10700 Bigge Avenue San Leandro, CA 94577

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

Fax: (510) 639-4053 Email: info@bigge.com Web site: www.bigge.com

Form No.: SBYB4415 Part No.: 3-1304 0800-4M Printed in U.S.A.



