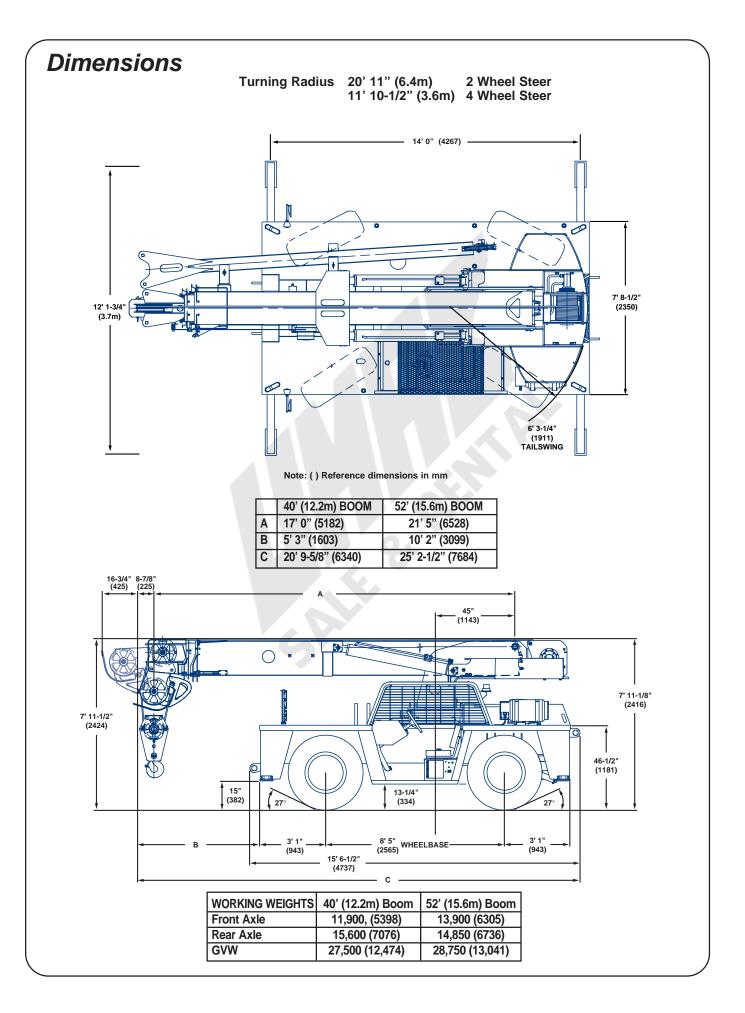
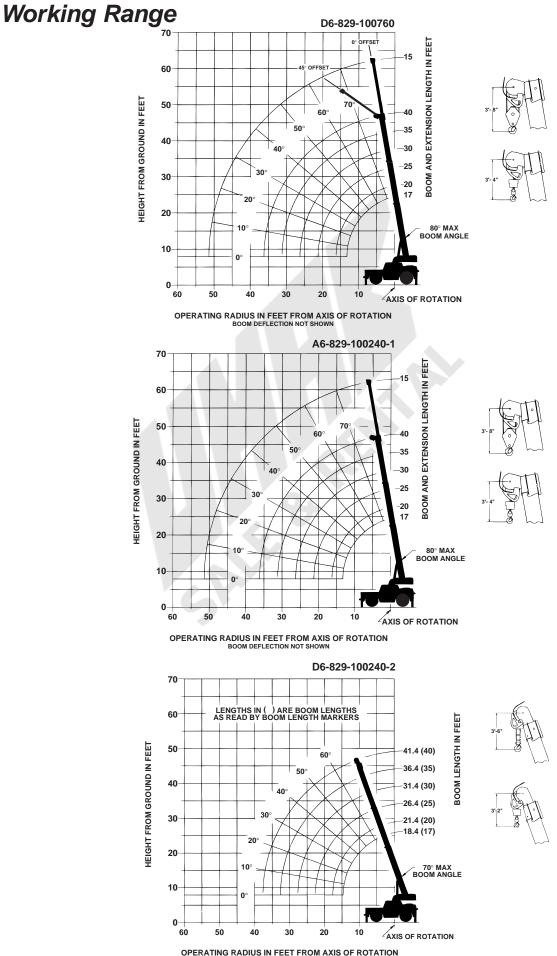




# **INDUSTRIAL CRANE**





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

# Superstructure Specifications

#### Boom

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.

#### Swing

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

Ν

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 guard 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 for each circuit.

#### 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)
Maximum Single Line Spee	d:	134 - 178 FPM (41 - 54 m/min)
Maximum Permissible Sing Standard Rope 5/8" (16 n (6 x 37 Class):		9,080 lbs. (3.5:1 FOS) (4119 kg)
*Optional Rope 5/8" (16 r (18 x 19 Class):	nm)	9,080 lbs. (5:1 FOS) (4119 kg)
Rope Length (Std.):		) w/40 ft. (12.2 m) boom ) w/52 ft. (15.6 m) boom
Maximum Rope Stowage:		374 ft. of 5/8" (114 m of 16 mm)
Usable:		269 ft. of 5/8" (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 m<sup>2</sup>) 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 cm<sup>2</sup>). 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 ( $\overline{4}$  wheel), full hydraulic power via steering wheel permits two modes of operation: 2 wheel (rear only) or four-wheel coordinated. Inside dash-mounted 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. (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°

Radius	Main Boom Length in Feet					
in Feet	* <b>17</b> (18.4)	* <b>20</b> (21.4)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	* <b>35</b> (36.4)	* <b>40</b> (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	4			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			Ó			3,840
36			þ			3,490
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
Lifting Capacity at Zero Degree Boom Angle On Outriggers Fully Extended 360°						
Boom		N	lain Boom L	ength in Fe	et	
Angle	* <b>17</b> (18.4)	* <b>20</b> (21.4)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	* <b>35</b> (36.4)	* <b>40</b> (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)

17	FT	- 40 FT	. BOOM
11	1 1.	- <del>-</del>	

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

A6-829-100221B

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

- 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°.

#### RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY - 360°

Radius in		N	lain Boom L	ength in Fe.	et	
Feet	* <b>17</b> (18.4)	* <b>20</b> (21.4)	*25 (26.4)	* <b>30</b> (31.4)	*35 (36.4)	* <b>40</b> (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	nimum boom	n angle (°) fo	r indicated	length (no la	ad)	0
Maxim	um boom le	ngth (ft.) at (	) degree bo	om angle (n	io load)	40
	Liftir	ng Capacity Oi	at Zero Deg n Rubber 36		ngle	
Boom	Main Boom Length in Feet					
Angle	* <b>17</b> (18.4)	* <b>20</b> (21.4)	*25 (26.4)	* <b>30</b> (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)

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.

5. All rubberlifting 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.
\*Creep - not over 200 ft. of movement in any 30 minute period and not exceeding 1 mph.

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).

 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°.

Radius in Feet'17 (18.4)'20 (21.4)'25 (26.4)'30 (31.4)'35 (36.4)'40 (41.4)618,70018,70018,70018,70018,70018,70018,70018,700815,05015,05015,05015,05015,05015,05015,05015,0501012,50012,50012,50012,50012,50012,50012,5001210,60010,60010,60010,60010,60010,600149,1909,1909,1909,1909,190168,0408,0408,0408,0408,0401806,8706,8706,8706,8702012.5012.5005,7605,7605,760211.001.001.001.001.000221.001.001.003,2703,270241.001.001.003,2703,270251.001.001.001.001.00281.001.001.001.001.00331.001.001.001.001.00341.001.001.001.001.00361.001.001.001.001.00361.001.001.001.001.00361.001.001.001.001.00361.001.001.001.001.00361.001.001.001.001.0							
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         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         9,190           16         8,040         8,040         8,040         8,040         8,040         8,040           18          6,870         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            3,620         3,710         3,710           24			N	lain Boom L	ength in Fe	et	
8         15,050         15,050         15,050         15,050         15,050         15,050         15,050         15,050         15,050         15,050         15,050         15,050         12,500         13,600         13,600         13,600         13,600         13,600         14,000         14         14,000         14,000         14,000         14,000         14,000         14,000         14,000         14,000         14,000         14,000         14,000         14,000         14,000		* <b>17</b> (18.4)	* <b>20</b> (21.4)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	*35 (36.4)	* <b>40</b> (41.4)
10         12,500 <td>6</td> <td>18,700</td> <td>18,700</td> <td>18,700</td> <td>18,700</td> <td>18,700</td> <td></td>	6	18,700	18,700	18,700	18,700	18,700	
12         10,600         10,600         10,600         10,600         10,600         10,600           14         9,190         9,190         9,190         9,190         9,190         9,190         9,190           16         8,040         8,040         8,040         8,040         8,040         8,040           18         6,870         6,870         6,870         6,870         6,870           20         5,760         5,760         5,760         5,760         5,760           22         4,910         4,910         4,910         4,910         4,910           24         4,250         4,250         4,250         4,250         3,270         3,270           30         2         2,800         2,880         2,800         2,880         2,800         2,880           32         2         2         2,680         2,110         36         1,620           Minimum boom angle (°) for indicated length (no load)         0         0         40         40           Main Boom Length in Feet           Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0	8	15,050	15,050	15,050	15,050	15,050	15,050
14         9,190         9,10         9,10         9,19	10	12,500	12,500	12,500	12,500	12,500	12,500
16         8,040         8,040         8,040         8,040         8,040         8,040         8,040           18         6,870         6,870         6,870         6,870         6,870         6,870           20         5,760         5,760         5,760         5,760         5,760         5,760           22         4,910         4,910         4,910         4,910         4,910           24         4         4,250         4,250         4,250         4,250           26         5,760         5,760         3,620         3,710         3,710           28         4         4         4         2,800         2,880           32         2,800         2,880         2,800         2,880           34         4         4         4         4,910         4,910           36         4         5         4,910         4,910         4,910           36         4         4         4         4         4         4         4           36         4         4         4         4         4         4         4         4           36         5         6         6         6	12	10,600	10,600	10,600	10,600	10,600	10,600
18         6,870         6,870         6,870         6,870         6,870           20         5,760         5,760         5,760         5,760         5,760           22         4,910         4,910         4,910         4,910         4,910           24         4,250         4,250         4,250         4,250         4,250           26         3,620         3,710         3,710         3,710           28         2         3,620         3,710         3,710           30         2         2,800         2,880         2,800         2,880           32         2         2,800         2,880         2,580         3,4         2,110           36         1         1         2,110         36         1,620         0           Minimum boom angle (°) for indicated length (no load)         0         0         0         40           Main Boom Length (r.) at 0 degree boom angle (no load)         40           Main Boom Length in Feet           Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0         9,690         7,920         5,210         3,61	14		9,190	9,190	9,190	9,190	9,190
20         5,760         5,760         5,760         5,760         5,760           22         4,910         4,910         4,910         4,910         4,910           24         4,250         4,250         4,250         4,250         4,250           26         3,620         3,710         3,710         3,710         3,710           28         2         2,800         2,880         2,800         2,880           32         2         2,800         2,880         2,580           34         2         2,2,580         1,620         1,620           Minimum boom angle (°) for indicated length (no load)         0         0         40           Main Boom Length (no load)         0           Main Boom Length in Feet           Main Boom Length in Feet           Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0         9,690         7,920         5,210         3,610         2,630         1,520	16		8,040	8,040	8,040	8,040	8,040
22         4,910         4,910         4,910           24         4,250         4,250         4,250           26         3,620         3,710         3,710           28         3,620         3,710         3,710           30         2,800         2,880         2,800         2,880           32         2         2,800         2,880         2,580           34         2         2,2,580         1,620         1,620           Minimum boom angle (°) for indicated length (no load)         0         0         40           Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry           Main Boom Length in Feet           Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           00         9,690         7,920         5,210         3,610         2,630         1,520	18			6,870	6,870	6,870	6,870
24         4,250         4,250         4,250           26         3,620         3,710         3,710           28         3,620         3,710         3,710           30         2,800         2,880         2,800         2,880           32         2         2,800         2,880         2,580           34         2         2,2,580         2,110         36         1,620           Minimum boom angle (°) for indicated length (no load)         0         0         40         40           Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry         40           Main Boom Length in Feet           Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           00         9,690         7,920         5,210         3,610         2,630         1,520	20			5,760	5,760	5,760	5,760
26         3,620         3,710         3,710           28         3,270         3,270         3,270           30         2,800         2,880         2,800         2,880           32         2         2,800         2,880         2,580           34         2         2,2110         2,110         36         1,620           Minimum boom angle (°) for indicated length (no load)         0         0         40         40           Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry           Main Boom Length in Feet           Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0°         9,690         7,920         5,210         3,610         2,630         1,520	22				4,910	4,910	4,910
28         3,270         3,270           30         3,270         3,270           30         2,800         2,880           32         2,580         2,580           34         2,110         2,580           36         1,620         1,620           Minimum boom angle (°) for indicated length (no load)         0           Maximum boom length (ft.) at 0 degree boom angle (no load)         40           Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry           Boom Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0°         9,690         7,920         5,210         3,610         2,630         1,520	24				4,250	4,250	4,250
30         2,800         2,880           32         2,800         2,880           34         2,580         2,580           34         2,110         2,580           36         1,620         1,620           Minimum boom angle (°) for indicated length (no load)         0           Maximum boom length (ft.) at 0 degree boom angle (no load)         40           Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry           Boom Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0°         9,690         7,920         5,210         3,610         2,630         1,520	26				3,620	3,710	3,710
32         2,580           34         2,580           36         2,110           36         1,620           Minimum boom angle (°) for indicated length (no load)         0           Maximum boom length (ft.) at 0 degree boom angle (no load)         40           Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry           Boom Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0         9,690         7,920         5,210         3,610         2,630         1,520	28					3,270	3,270
34         2,110           36         1,620           Minimum boom angle (°) for indicated length (no load)         0           Maximum boom length (ft.) at 0 degree boom angle (no load)         0           Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry         40           Boom Angle         Main Boom Length in Feet         *17 (18.4)           0         9,690         7,920         5,210         3,610         2,630         1,520	30					2,800	2,880
36         1,620           Minimum boom angle (°) for indicated length (no load)         0           Maximum boom length (ft.) at 0 degree boom angle (no load)         40           Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry           Boom Angle         Main Boom Length in Feet           *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0°         9,690         7,920         5,210         3,610         2,630         1,520	32						2,580
Minimum boom angle (°) for indicated length (no load)         0           Maximum boom length (ft.) at 0 degree boom angle (no load)         40           Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry           Main Boom Length in Feet           Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0°         9,690         7,920         5,210         3,610         2,630         1,520	34						2,110
Maximum boom length (ft.) at 0 degree boom angle (no load)         40           Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry           Boom Angle         Main Boom Length in Feet           *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0°         9,690         7,920         5,210         3,610         2,630         1,520	36						1,620
Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry           Boom Angle         Main Boom Length in Feet           *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0°         9,690         7,920         5,210         3,610         2,630         1,520	Mir	nimum boom	n angle (°) fo	r indicated	length (no lo	ad)	0
On Rubber - Defined Arc and Pick & Carry           Boom         Main Boom Length in Feet           Angle         '17 (18.4)         '20 (21.4)         '25 (26.4)         '30 (31.4)         '35 (36.4)         '40 (41.4)           0°         9,690         7,920         5,210         3,610         2,630         1,520	Maxim	um boom le	ngth (ft.) at (	) degree bo	om angle (n	io load)	40
Angle         *17 (18.4)         *20 (21.4)         *25 (26.4)         *30 (31.4)         *35 (36.4)         *40 (41.4)           0°         9,690         7,920         5,210         3,610         2,630         1,520							
9,690 7,920 5,210 3,610 2,630 1,520	Boom		N	lain Boom L	ength in Fe	et	
	Angle	* <b>17</b> (18.4)	* <b>20</b> (21.4)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	*35 (36.4)	* <b>40</b> (41.4)
	0°						

#### PICK & CARRY AND STATIONARY - DEFINED ARC OVER FRONT

Note: ( ) Reference radii in feet. (Applicable to boom nose sheaves A6-829-100223E in down position only.)

\*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

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			9	3,420	3,420	3,420	
40				3,160	3,160	3,160	
45					2,610	2,610	
50						2,190	
	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	
<b>3</b> °	2,700 (29)	2,450 (32)	1,990 (37)	1,560 (42)	1,240 (47)	1,000 (52)	

#### ON OUTRIGGERS FULLY EXTENDED - 360°

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 =  $0^{\circ}$
  - b. Maximum main boom length at  $0^{\circ}$  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 Deg ber Stationa	gree Boom / ry - 360°	Angle	
Boom	m Main Boom Length in Feet					
Angle	17	20	25	30	35	-
3°	2,110 (29)	1,760 (32)	1,100 (37)	750 (42)	490 (47)	

Note: () Ref. radii in feet.

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

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 = 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	Main Boon Ecigarini Cot					
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)

#### NOTES:

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

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 =  $40^{\circ}$ b. Maximum main boom length at  $0^{\circ}$  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	
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	8,180	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
		g Capacity a On Outrigge				
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)

#### NOTES:

A6-829-100724

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.

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

b. Maximum main boom length at  $0^{\circ}$  main boom angle = 40 ft. 6. When lifting loads the minimum allowable boom angle is  $3^{\circ}$  at  $0^{\circ}$  offset.

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

15		ETTABLE LIFTING		-		ET	
	ON O	JTRIGGER	S FULLY E	XTENDED ·	- 360°		
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	3,790	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	
		Capacity at I On Outrigge					NOTES: 1. All capacities
Boom		N	lain Boom L	ength in Fe.	et		loads on outri 2. 15 ft. boom e
Angle	17	20	25	30	35	40	3. WARNING: C with boom ex
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)	4. Capacities lis 5. No load stabil a. Minin

#### NOTES:

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 at 45° offset:

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

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.

Note: () Ref. radii in feet. Radii are with the extension at horizontal.

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

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.

A6-829-100725

#### 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			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		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)			

#### 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.

 St. 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. 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 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.	OFFSET	TABLE	EXTE	INSIC	DN AT	45° (	OFFSE	Т
RATED L	IFTING	CAPACI	TIES	IN P	OUND	S ON	RUBB	ER

.....

Radius	Main Boom Length in Feet									
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	3,700	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				

Boom	Main Boom Length in Feet								
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.

NOTES:

T. 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.

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 at 45° offset:

a. Minimum boom angle for 40 ft. main boom =  $45^\circ$ 

b. Maximum main boom length at  $45^{\circ}$  main boom angle = 40 ft.

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

A6-829-100727

#### 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	
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
				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)	930 (52)
Note: () Ref.		aximum boom	angle		A6	-829-100728

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

Radius

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.

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.

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 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

	N	lain Boom L	ength in Fe	et
17	20	25	30	35

in											
Feet	17	20	25	30	35	40					
12	4,310					1					
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					

Boom		Ν	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.

#### NOTES:

1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 75% of tipping In a particulation of the second and t

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

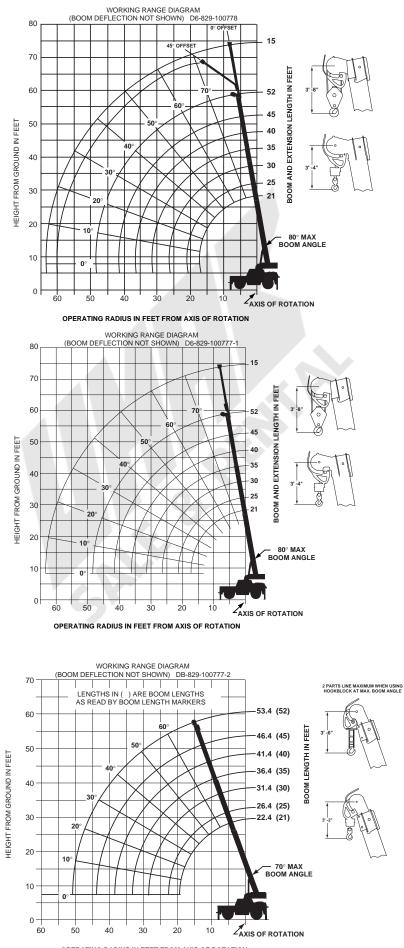
pressures. Damaged tires are hazardous to safe operation of crane. 7. WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping

with boom extension occurs rapidly and without advance warning. 8. No load stability on rubber (defined arc) with 15 ft. 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.

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.

A6-829-100729



OPERATING RADIUS IN FEET FROM AXIS OF ROTATION

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

Radius			Main B	oom Length			
in Feet	* <b>21</b> (22.8)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	* <b>35</b> (36.4)	* <b>40</b> (41.4)	* <b>45</b> (46.4)	* <b>52</b> (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				Ь		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	n boom leng	th (ft.) at 0°	boom angle	(no load)		52
		Lifting Cap On O	pacity at Zer utriggers Fu	o Degree Bo Ily Extended	oom Angle d 360°		
Boom			Main B	oom Length	in Feet		
Angle	* <b>21</b> (22.8)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	* <b>35</b> (36.4)	* <b>40</b> (41.4)	* <b>45</b> (46.4)	* <b>52</b> (53.4)
<b>0</b> °	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)

21 FT. - 52 FT. BOOM

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

A6-829-100745

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

\*\*Capacity based on maximum boom angle.

- 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°.

#### RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

		S	TATIONA	RY - 360	ō		
Radius			Main B	oom Length	in Feet		
in Feet	* <b>21</b> (22.8)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	* <b>35</b> (36.4)	* <b>40</b> (41.4)	* <b>45</b> (46.4)	* <b>52</b> (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 le	oad)	24	38
Ma	ximum boon	n length (ft.)	at 0° boom	angle (no lo	ad)	4	0
		Lifting Ca		o Degree B ber 360°	oom Angle		
Boom			Main B	oom Length	in Feet		
Angle	* <b>21</b> (22.8)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	* <b>35</b> (36.4)	* <b>40</b> (41.4)		
0°	3,700 (17.7)	2,660 (21.3)	1,600 (26.3)	1,050 (31.3)	640 (36.3)		

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

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

\*\*Capacity based on maximum boom angle

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.

- 3. Defined Arc Over front includes 6° on either side of longitudinal centerline of machine.

- Defined Arc Over front includes 6° on either side of longitudinal centerline of machine.
   Capacities are applicable only with machine on firm level surface.
   Stall 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.
   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.
   With home period charging funger periods.

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

A6-829-100746A

#### PICK & CARRY AND STATIONARY - DEFINED ARC OVER FRONT

Radius in			Main B	oom Length	in Feet				
Feet	* <b>21</b> (22.8)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	* <b>35</b> (36.4)	* <b>40</b> (41.4)	* <b>45</b> (46.4)	* <b>52</b> (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			e			
Boom		Main Boom Length in Feet							
Angle	* <b>21</b> (22.8)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	* <b>35</b> (36.4)	* <b>40</b> (41.4)	*45 (46.4)	* <b>52</b> (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)		

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

\*\*Capacity based on maximum boom angle

## 15 FT. EXTENSION RATED LIFTING CAPACITIES IN POUNDS

#### ON OUTRIGGERS FULLY EXTENDED - 360°

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	4		
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		6				1,690	1,690
60							1,370
	Minimum	boom angle	e (°) for india	cated length	(no load)		0
	Maximum	n boom leng	th (ft.) at $0^{\circ}$	boom angle	(no load)		52
			acity at Thro Itriggers Ful				
Boom			Main B	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°.

#### 15 FT. EXTENSION RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

STATIONARY 360°

		3	IAHONA	RY 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			
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 oad)	ted length	31	38	44	50	
Maximun	n boom lengti (no l	n (ft.) at 0° bo oad)	oom angle	30				
				ee Degree B ationary - 36				
Boom			Main B	oom Length in Feet				
Angle	21	25						
3°	1,510 (33.4)	1,130 (37)						

- Note: () Ref. radii in feet.. \*\*This capacity based on maximum boom angle.
- 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 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. When lifting loads the minimum allowable boom angle is 3°.

#### 15 FT. EXTENSION RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

RATED		15 NG CAP TIONARY	ACITIE		OUNDS		JBBER	
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	8,600	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	n boom leng	th (ft.) at 0°	boom angle	(no load)		52	NOTES: 1. All capacities abo
				ee Degree B ned Arc Over				rubber in accorda 2. 15 ft. boom exter
Boom			Main B	oom Length	in Feet			3. Defined Arc - Ov
Angle	21	25	30	35	40	45		<ol> <li>Capacities are a 5. Capacities are a</li> </ol>
3°	2,850 (33.4)	2,330 (37)	1,790 (42)	1,370 (47)	1,050 (52)	780 (57)		<ol> <li>All rubber lifting pressures. Dama 7. WARNING: Ope</li> </ol>
**This capac Note: ( ) Ref.		oon maximum I	boom angle.			A6	-829-100756	extension occurs 8. When lifting load

#### NOTES:

- 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.
- 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 rubbers and approach only man income of many even of a 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. When lifting loads the minimum allowable boom angle is  $3^\circ$ .

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 YB4415/YB4415XT

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

#### ON OUTRIGGERS FULLY EXTENDED - 360°

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	*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		
				ee Degree E Ily Extended					
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)		

NOTES:

A6-829-100748A

NOTES:
 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.
 I 5 ft. offsettable 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. offsettable extension installed at 0° offset:

 Marinum boom angle for 52 ft. main boom = 0°
 Maximum main boom length at 0° main boom angle = 52 ft.
 When lifting loads the minimum allowable boom ancele is 3° at 0° offset

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

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

15 FT. OFFSETTABLE EXTENSION AT 45° OFF RATED LIFTING CAPACITIES IN POUNDS	SET
ON OUTRIGGERS FULLY EXTENDED - 360°	

D. P. J							_
Radius in		N	lain Boom L	ength in Fe.	et		
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		ity at Forty I triggers Ful		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)

NOTES:
 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. offsettable 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. offsettable extension installed at 45° offset:

 Minimum boom angle for 52 ft. main boom = 45°
 Maximum main boom length at 45° main boom angle = 52 ft.
 When lifting loads the minimum allowable boom angle is 48° at 45° offset.

\*This capacity based on maximum boom angle. \*\*Radii are with extension at horizontal.

#### 15 FT. OFFSETTABLE EXTENSION AT 0° OFFSET RATED LIFTING CAPACITIES IN POUNDS ON RUBBER STATIONIADV 2600

Radius in		Main Boom 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	7,910	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 Cap	acity at Thr On Rubb	ee Degree E oer - 360°	loom Angle			
Boom			Main B	oom Length	in Feet			
Angle	21	25						
3°	1,430 (33.4)	1,090 (37)						

NOTES:

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.

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.

 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.

Note: () Ref. radii in feet.	
*This canacity based on maximum boom and	le

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

STATIONARY 360° Radius Main Boom Length in Feet in 21 25 40 45 52 30 35 Feet 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 1,820 30 1,820 1,820 1,820 1,820 1.580 1.580 32 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

	On Rubber - 360°								
oom			Main B	oom Length	in Feet				
ngle	21	25	30	35	40				
o **	2,310	1,930	1,500	1,060	770				

(26.7) (29.2) (32.7) (36.3) (39.8) Note: () Ref. radii in feet.

\*This capacity based on maximum boom angle. \*\* Radii are with the extension at horizontal.

Во

An

48

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 rubberlifting dependences on propertire 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  $360^\circ$  with 15 ft. offsettable extension installed at  $45^\circ$  offset: a. Minimum boom angle for 52 ft. main boom =  $56^\circ$ 

b. Maximum main boom length at  $45^\circ$  main boom angle = 45 ft. 9. When lifting loads the minimum allowable boom angle is  $48^\circ$  at  $45^\circ$  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.

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

Radius		Main Boom 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	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 Thro Ibber - 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)		

#### 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 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 in 21 25 30 35 40 45 52 Feet 4 4 5 0 \*4 500 12 4,280 14 4.350 \*4.420 \*4.480 16 4,140 4,210 4,290 4,360 \*4,420 4,020 4,090 4,180 4,250 4,310 4,360 18 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 3 850 4.180 24 3 800 3 920 3 9 9 0 4 060 4.120 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 Lifting Capacity at Forty Eight Degree Boom Angle On Rubber - Defined Arc Over Front Main Boom Length in Feet Boom Angle 21 25 30 35 40 45 52

#### NOTES:

- 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 45° offset:
- a. Minimum boom angle for 52 ft. main boom =  $45^{\circ}$ 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.

3.710

48° \*\*

Note: () Ref. radii in feet.

3.480

(29.2)

2.810

(32.7)

2.280

(36.3)

1.870

(39.8)

1.540

(43.3)

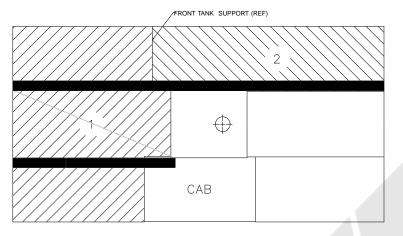
1.130

(48.3)

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<sup>(26.7</sup> \* This capacity based on maximum boom angle \*\* Radii are with the extension at horizontal.

#### LOAD DISTRIBUTION CHART FOR CARRY DECK



Maximum Allowable Uniformly Distributed Load

AREA 1	
43.2 sq. ft. / 4.01 m <sup>2</sup>	13,195 lb. / 5,985 kg
AREA 2	-
23.1 sq. ft. / 2.15 m <sup>2</sup>	6,805 lb. / 3,087 kg
TOTAL	-
66.3 sq. ft. / 6.16 m <sup>2</sup>	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.

HOISTS	CABLE SPECS.	PERMISSIBLE	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)

#### LINE PULLS AND REEVING INFORMATION

#### WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

40 FT. M	AIN BOOM		
15' FIXED (NO	N-OFFSETTABLE)		
Erected	870 lb.		
Stowed	85 lb.		
15' OFFSETTABLE			
Erected	1420 lb.		
Stowed	260 lb.		
52 FT. MAIN BOOM			
15' FIXED (NO	N-OFFSETTABLE)		
Erected	870 lb.		
Stowed	160 lb.		
15' OFFSETTABLE			
Erected	1420 lb.		
Stowed	350 lb.		

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.



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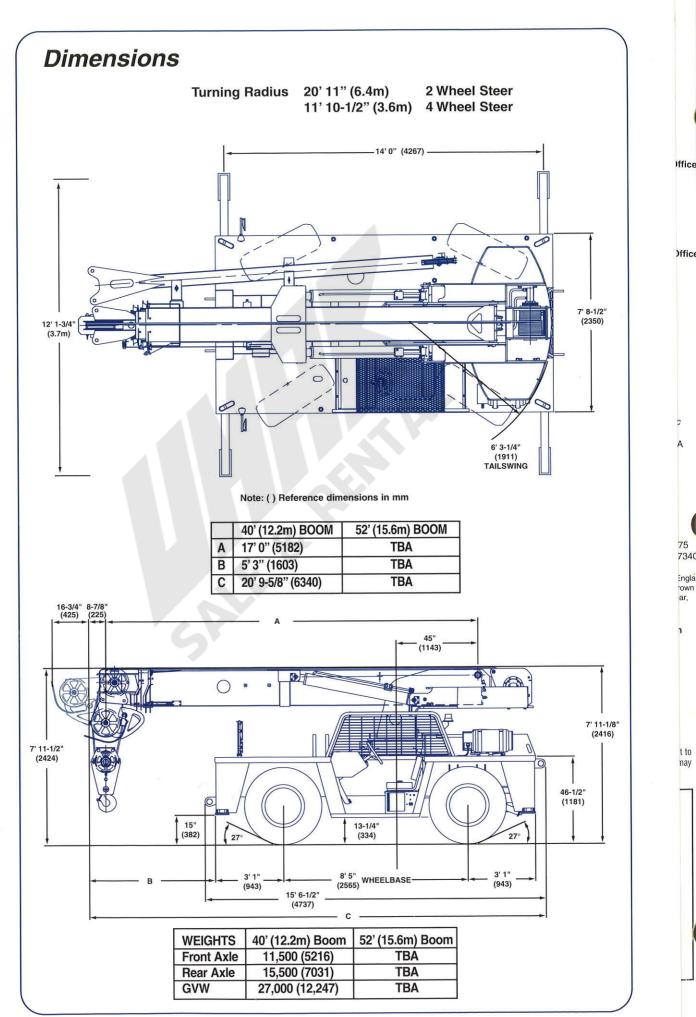
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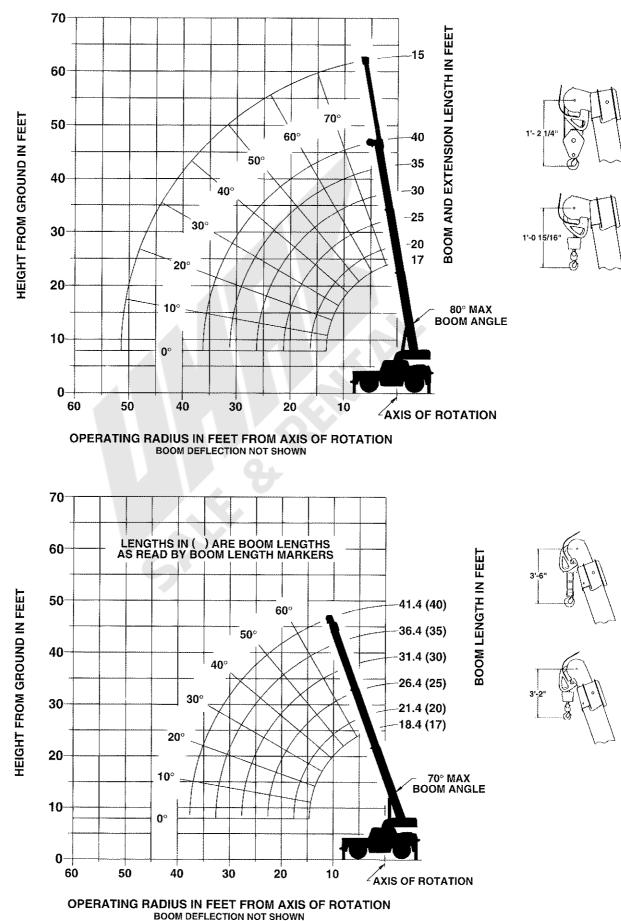
# YB4415 YB4415XT

# MATERIAL HANDLING HYDRAULIC CRANE

\* YB441 λ. 111 7



# Working Range



3

## 15 FT. EXTENSION RATED LIFTING CAPACITIES IN POUNDS ON RUBBER

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	7,850	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	
		ng Capacity On Outrigge					
Boom Angle	Main Boom Length in Feet						
	17	20	25	30	35		
0°	2,110	1,760	1,100	750	490		

#### STATIONARY 360°

\*\* This capacity based on maximum boom angle.

A6-829-100225B

#### 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.
- 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 Firestone 385/65R22.5 (J) 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 = 30°
  - b. Maximum main boom length at  $0^{\circ}$  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

Radius in Feet	Main Boom Length 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	7,850	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		0		2,180	2,180	2,180	
40				1,970	1,970	1,970	
45					1,550	1,550	
50						1,220	
		ng Capacity On Rubber					
Boom		N	lain Boom L	ength in Fe	et		
Angle	17	20	25	30	35	40	
0°	2,700	2,450	1,990	1,560	1,240	1,000	

#### STATIONARY - DEFINED ARC OVER FRONT

\*\* This capacity based on maximum boom angle.

A6-829-100226B

#### 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.
- 4. Capacities are applicable to machines equipped with Firestone 385/65R22.5 (J) 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 =  $40^{\circ}$
  - b. Maximum main boom length at  $0^{\circ}$  main boom angle = 30 ft.
- 9. When lifting loads the minimum allowable boom angle is 3°.

# RATED LIFTING CAPACITIES IN POUNDS ON RUBBER PICK & CARRY AND STATIONARY - DEFINED ARC OVER FRONT

Radius	Main Boom Length in Feet						
in Feet	*17 (18.4)	* <b>20</b> (21.4)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	* <b>35</b> (36.4)	* <b>40</b> (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	
Minimum boom angle (°) for indicated length (no load)							
Maxim	Maximum boom length (ft.) at 0 degree boom angle (no load)						
Lifting Capacity at Zero Degree Boom Angle On Rubber - Defined Arc and Pick & Carry							
Boom	Main Boom Length in Feet						
Angle	* <b>17</b> (18.4)	* <b>20</b> (21.4)	* <b>25</b> (26.4)	* <b>30</b> (31.4)	* <b>35</b> (36.4)	* <b>40</b> (41.4)	
0°	9,690	7,920	5,210	3,610	2,630	1,520	

A6-829-100223A

\*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°

	I	maalin					
Radius in	Main Boom Length in Feet						
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	5					2,190	
Lifting Capacity at Zero Degree Boom Angle On Outriggers Fully Extended - 360°							
Boom		Main Boom Length in Feet					
Angle	17	20	25	30	35	40	
0°	2,700	2,450	1,990	1,560	1,240	1,000	

A6-829-100224B

#### 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 =  $0^{\circ}$
  - b. Maximum main boom length at  $0^{\circ}$  main boom angle = 40 ft.
- 6. When lifting loads the minimum allowable boom angle is 3°.