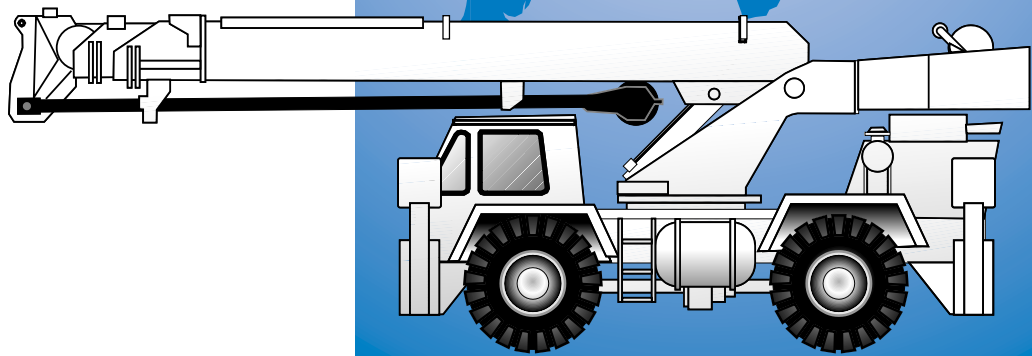




GROVE[®]
CRANE

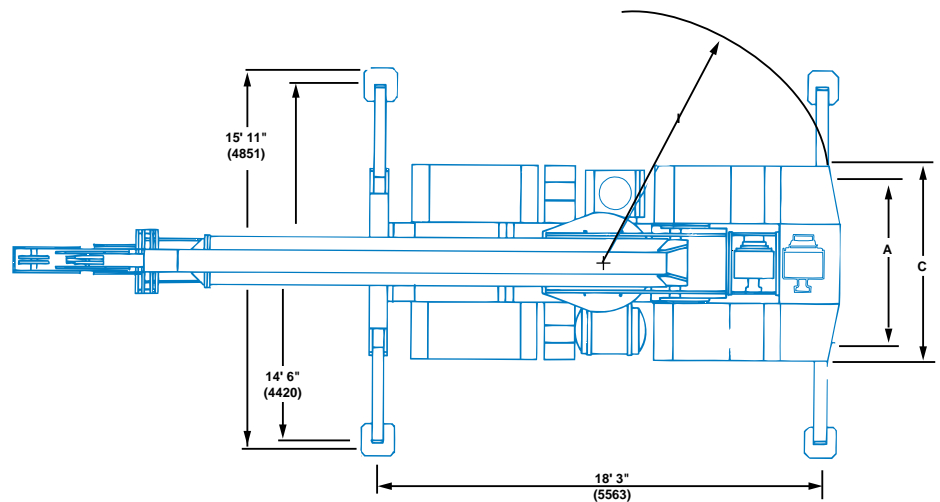
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RT58C

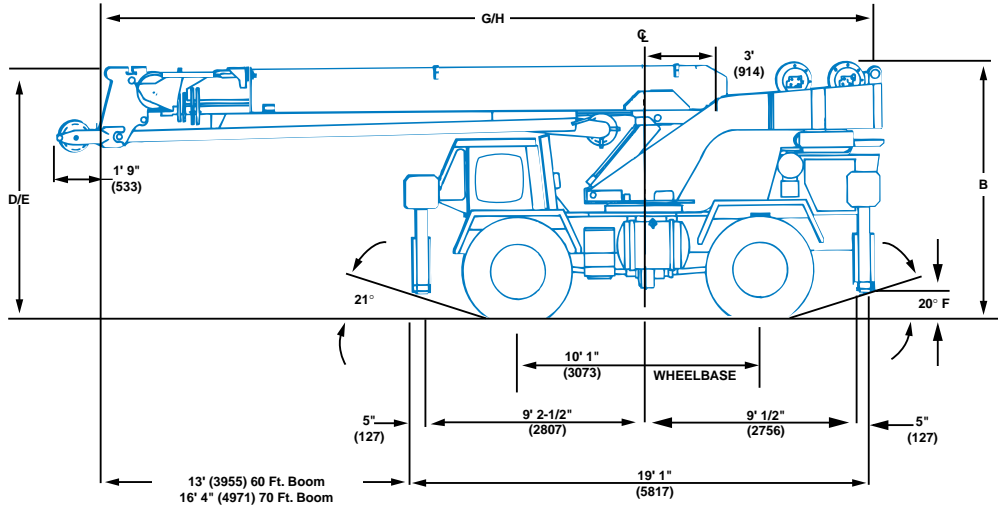


Rough Terrain Hydraulic Crane

Dimensions



TIRE SIZE	17.5 X 25	20.5 X 25
A (TRACK)	6' 6" (1981)	6' 9" (2057)
B (O.A.H)	10' 5" (3175)	10' 9" (3277)
C (O.A.W)	8' (2438)	8' 3" (2667)
D (60' BOOM)	10' 6" (3200)	10' 9" (3277)
E (70' BOOM)	NA	11' 6" (3505)
F GROUND CLEARANCE	1' 1" (330)	1' 4" (406)
G (60' BOOM)	30' 5" (9271) w/o Aux. Hoist 32' 5" (9881) w/ Aux. Hoist	
H (70' BOOM)	35' 9" (10896)	
I (TAILSWING)	8' 5" (2565) w/o Aux. Hoist	
(60' BOOM)	10' 3" (3124) w/ Aux. Hoist	
(70' BOOM)	10' 3" (3124)	



Turning Radius 16' 3" (4940 mm)

Front Axle Load 22,280 lbs. (10 100 kg)

Rear Axle Load 21,840 lbs. (9 9003 kg)

Gross Vehicle Weight. 44,120 lbs. (20 000 kg)

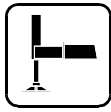
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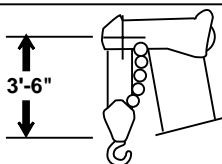
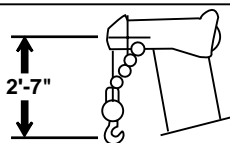
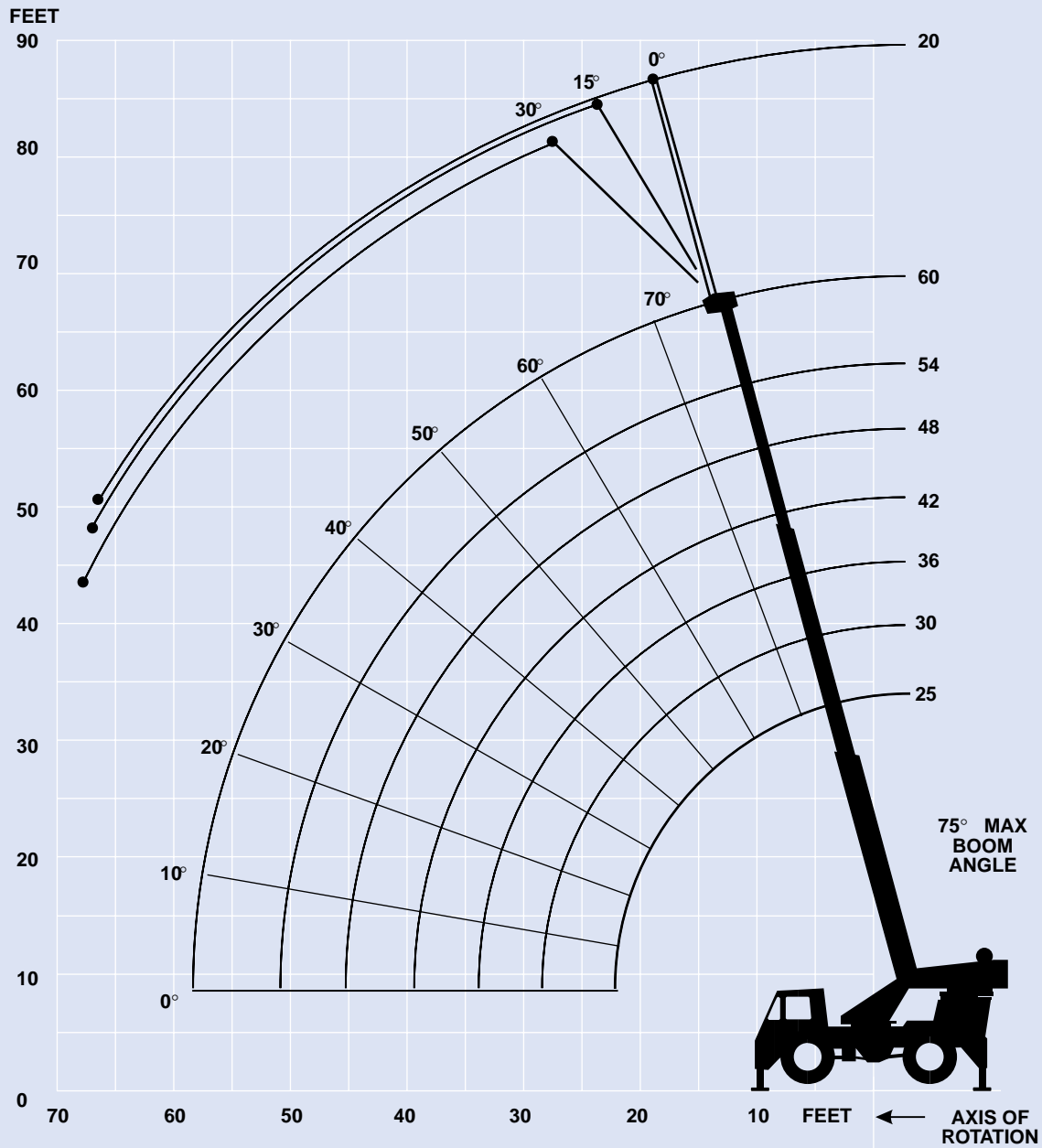
25-60 ft.
(7.6-18.3 m)



20 ft.
(6.1 m)



360°



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

Superstructure specifications

Boom

25 ft. - 60 ft. (7.6 m - 18.3 m) three-section full power-boom.

Maximum Tip Height: 66 ft. (20.1 m).

***Optional Jib (60 ft. Boom)**

20 ft. (6.1 m) "A frame" jib offsettable at 0°, 15° or 30°. Stows beneath base boom section.

Maximum Tip Height: 85 ft. (25.9 m).

***Optional Boom**

28 ft.- 70 ft. (8.6 m - 21.2 m) three-section full power boom.

Maximum Tip Height: 76 ft. (23.2 m).

***Optional Jib (70 ft. Boom)**

23 ft. (7.0 m) "A frame" jib offsettable at 0°, 15° or 30°. Stows beneath base boom section.

Maximum Tip Height: 98 ft. (29.9 m).

Boom Nose

Three steel sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards.

*Optional removable auxiliary boom nose with removable pin type rope guard.

Boom Elevation

Two double acting hydraulic cylinders with integral holding valve provides elevation from -0° to 75°.

Load Moment

& Anti-Two Block System

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

Cab

Full vision, all steel fabricated frame mounted with tinted safety glass throughout. Deluxe adjustable seat. Dash mounted control levers, gauges, for engine functions. Other standard features include: sliding side doors, electric windshield wash-wipe, circulating air fan, dome light, fire extinguisher, seat belt.

Swing

Ball bearing swing circle with 360° continuous rotation. Grove planetary drive with automatic multi-disc swing brake and plunger type mechanical house lock. Maximum speed: 2.9 RPM.

Counterweight

Bolted to turntable mast.

60 ft. (18.3 m) Boom:

With main only: 7,470 lbs. (3388 kg)

With main & aux. 5,710 lbs (2590 kg)

70 ft. (21.2 m) Boom:

All configurations: 10,170 lbs. (4613 kg)

Hydraulic System

Three main pumps with a combined capacity 112.5 GPM (426 LPM). Driven by carrier engine through P.T.O. Maximum operating pressure 2500 PSI (172 BAR).

*Optional pump disconnect with engine jogging switch.

Hoist Specifications

Main and Auxiliary Hoist

Power up and down equal speed, grooved drum, planetary reduction with automatic brake and hoist cable followers. Electronic hoist drum rotation indicators.

Maximum Single Line Pull: 9,640 lbs.
(4372 kg)

Maximum Single Line Speed: 429 FPM
(131 m/min)

Maximum Permissible
Line Pull: 8,496 lbs.
(3853 kg)

Rope Diameter: 5/8 in.
(16 mm)

Rope Length: 350 ft.
(106 m)

Maximum Rope Stowage: 486 ft.
(148 m)

Carrier specifications

Chassis

Steel all welded box-type construction. Integral outrigger housings and front/rear towing and tie down lugs.

Outrigger System

Cantilever arm type at all four corners with integral check valves on each extension cylinder. Integral all steel outrigger float pads 13.5 in. (343 mm) square. Maximum outrigger pad load: 36,787 lbs. (16 687 kg).

Outrigger Controls

Controls and crane level indicator located in cab.

Engine

Cummins BT59L six cylinders, turbocharged, water cooled diesel, 125 bhp (93 kw) (Gross) @ 2,800 RPM. Maximum torque: 325 ft. lbs. (441 Nm) @ 1,700 RPM.

Fuel Tank Capacity

60 gallons (227 L)

Transmission

Remote mounted powershift with 6 forward and 6 reverse speeds, 3 in high range, 3 in low range. Rear axle disconnect for 4 x 2 travel.

Electrical System

Two 12- V - maintenance free batteries. 625 CCA@ 0°F 12- V starting.

Drive

4 x 4 or 4 x 2.

Steering

Fully independent power steering:

Front: Full hydraulic steering wheel controlled.

Rear: Full hydraulic tiller bar controlled.

Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated. Rear steer indicating gauge.

Axles

Front: Drive steer with differential and planetary reduction hubs rigid mounted to chassis.

Rear: Drive/steer with differential and planetary reduction hubs pivot mounted at center of chassis. Automatic full hydraulic lockouts on rear axle. *No-spin differential on rear axle.

Oscillation Lockouts

Automatic full hydraulic lockouts on rear axle permits oscillation only with boom centered over the front.

*Oscillation lockout override control.

Tires

Std. 17.5 x 25 - 20PR earthmover type, tubless.

*Optional: 20.5 x 25 -20PR., earthmover type, tubless.

Lights

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

Maximum Speed

24 MPH (38.0 kph).

Gradeability (Theoretical)

96.7% (Based on 49,000 lbs. [22 226] kg GVW)

Miscellaneous Standard Equipment

Full width steel fenders, electronic back-up alarm, light package, hourmeter, fire extinguisher, seat belts, air cleaner service indicator.

***Optional Equipment**

*Auxiliary hoist

*Boom mounted work lights

*360° flashing light

*Spotlights

*Hot water heater

*Hookblock/Headache ball

*Tow winch - front mounted maximum pull 15,000 lbs. (6804 kg); maximum speed 72 ft/min. (22m/min)

*Spare wheel

*Tool kit

*LMI light bar

*Cold start aid (less canister)

*Tachometer

*A/V warning system, low oil pressure, high water temperature.

*360° positive swing lock

*Integral toolboxes



25 - 60 ft.
(7.6-18.3 m)



7,470 lbs.
(3388 kg)



100%



360°



85% Domestic (Pounds)

(Feet)	25	30	36	42	48	54	60
10	36,000	36,000	36,000	36,000			
12	34,500	34,500	34,500	34,300	33,500		
15	<u>28,000</u>	<u>28,000</u>	<u>28,000</u>	<u>28,000</u>	<u>28,000</u>	<u>27,600</u>	<u>25,000</u>
20	19,600	19,600	19,600	19,600	19,600	19,600	19,600
25		13,300	13,300	13,300	13,300	13,300	13,300
30			9,730	9,730	9,730	9,730	9,730
35				7,440	7,440	7,440	7,440
40					5,880	5,880	5,880
45						4,820	4,820
50						4,000	4,000
55							3,350
Minimum boom angle (degrees) for indicated length (no load)							0
Maximum boom length (ft.) at 0 degree boom angle (no load)							60

A6-829-004139



25 - 60 ft.
(7.6-18.3 m)



7,470 lbs.
(3388 kg)



100%




Over Front





85% Domestic (Pounds)


(Feet)	25	30	36	42	48	54	60
10	36,000	36,000	36,000	36,000			
12	34,500	34,500	34,500	34,300	33,500		
15	28,000	28,000	28,000	28,000	28,000	27,600	25,000
20	<u>22,200</u>	22,200	22,200	22,200	22,200	21,900	21,500
25		<u>17,400</u>	17,400	17,400	17,400	17,400	17,400
30			<u>14,100</u>	<u>14,100</u>	<u>14,100</u>	<u>14,100</u>	<u>14,100</u>
35				11,320	11,320	11,320	11,320
40					9,010	9,010	9,010
45						7,470	7,470
50						6,200	6,200
55							5,100
Minimum boom angle (degrees) for indicated length (no load)							0
Maximum boom length (ft.) at 0 degree boom angle (no load)							60


A6-829-004140


25 - 60 ft.
(7.6 - 18.3 m)


(20 ft.)
(6.1 m)


7,470 lbs.
(3388 kg)



100 %



360°

Boom Angle	85% Domestic (Pounds)		
	0° OFFSET	15° OFFSET	30° OFFSET
75°	9,500	6,100	4,200
70°	8,400	5,450	3,870
65°	7,140	4,850	3,660
60°	5,440	4,400	3,500
55°	4,210	3,770	3,330
50°	3,410	3,200	3,200
45°	2,810	2,730	2,700
40°	2,440	2,360	2,360
35°	2,150	2,040	2,040
30°	<u>1,890</u>	<u>1,810</u>	<u>1,810</u>

A6-829-003405C


25 - 60 ft.
(7.6 m - 18.3 m)


7,470 lbs.
(3388 kg)


17.5 X 25 - 20PR Tires


360°
Stationary

(Feet)	75% Domestic (Pounds)					
	25	30	36	42	48	54
10	16,280					
12	13,000	10,000	10,000	10,000	10,000	
15	<u>9,000</u>	7,600	7,600	7,600	7,600	
20	5,290	<u>5,000</u>	<u>5,000</u>	5,000	5,000	5,000
25		3,440	3,440	3,440	3,440	3,440
30			2,440	<u>2,440</u>	2,440	2,440
35				1,780	<u>1,700</u>	1,700
40					1,220	<u>1,100</u>
45						820

A6-829-009191A

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.



25 - 60 ft.
(7.6 - 18.3 m)



7,470 lbs.
(3388 kg)



17.5 X 25 - 20PR Tires



Defined Arc
Over Front
Stationary



75% Domestic (Pounds)

(Feet)	25	30	36	42	48	54	60
10	24,100						
12	22,060	16,000	16,000	16,000	10,000		
15	17,380	13,000	13,000	13,000	10,000		
20	11,340	9,600	9,600	9,600	9,600	9,600	
25		7,650	7,650	7,500	7,500	7,500	
30			5,660	5,660	5,660	5,660	5,660
35				4,340	4,340	4,340	4,340
40					3,410	3,410	3,410
45						2,750	2,750
50						2,180	2,150
55							1,600

A6-829-009166A



25-60 ft.
(7.6 m - 18.3 m)



7,470 lbs.
(3388 kg)



17.5 X 25 - 20PR Tires



Pick & carry
Up to 2.5 MPH



75% Domestic (Pounds)

(Feet)	25	30	36	42	48	54	60
10	24,750						
12	21,030	13,700	13,700				
15	16,830	11,100	11,100	11,100	11,100		
20	11,340	8,670	8,670	8,300	8,300		
25		7,650	7,650	6,400	6,400	6,400	
30			5,410	5,000	5,000	5,000	5,000
35				4,340	4,000	4,000	4,000
40					3,410	3,100	3,100
45						2,750	2,500
50						2,180	2,000
55							1,600

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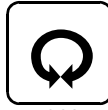
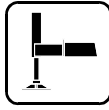
Working Range



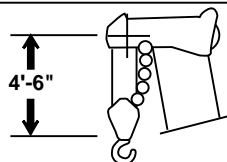
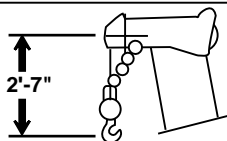
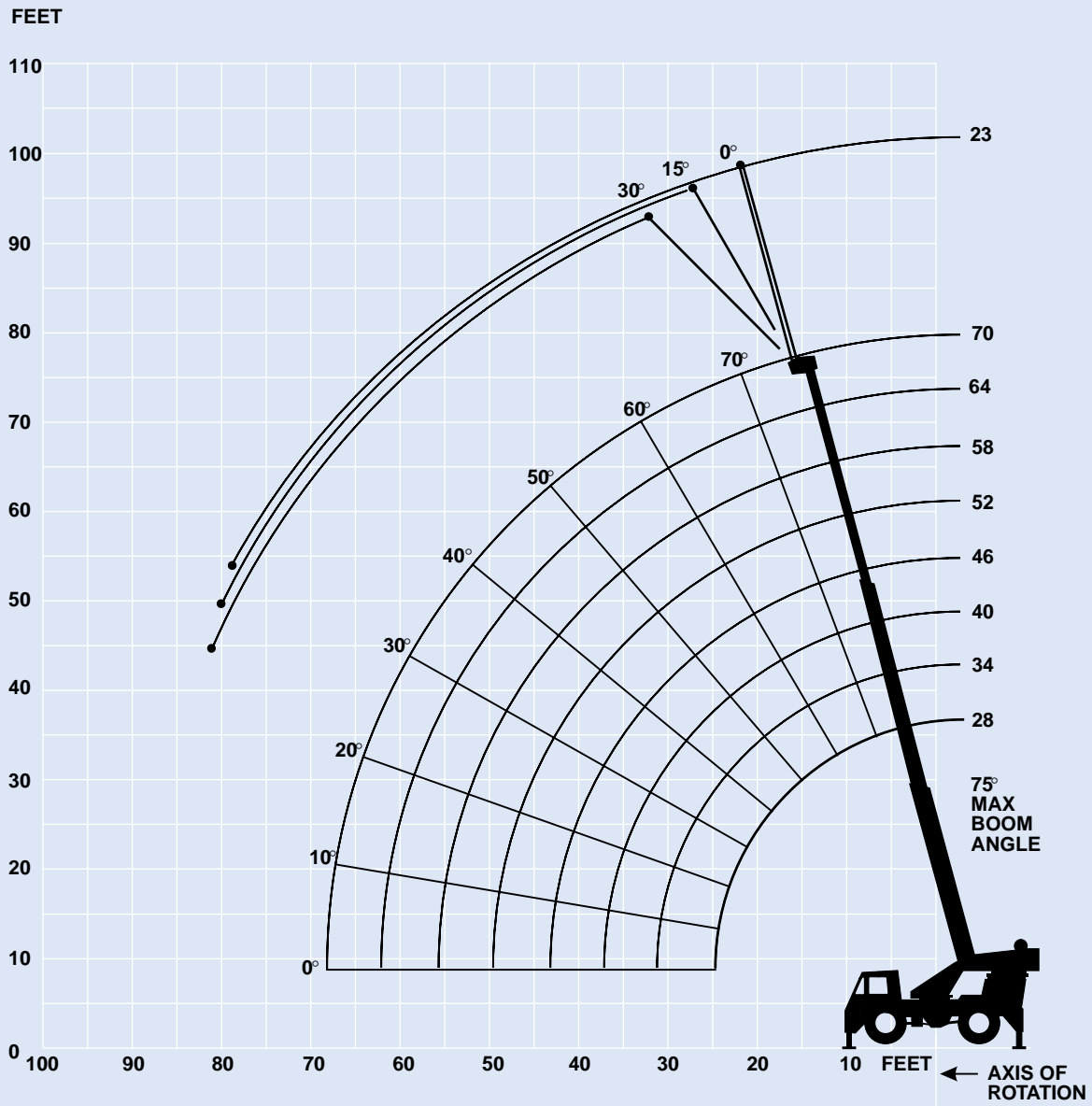
28-70 ft.
(8.6-21.2 m)



23 ft.
(7.0 m)



360°



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



28 - 70 ft.
(8.6 - 21.2 m)



10,170 lbs.
(4613 kg)



100%



360°



85% Domestic (Pounds)

(Feet)	28	34	40	46	52	58	64	70
10	36,000	35,350	34,350					
12	32,150	30,950	30,000	29,250				
15	27,100	26,100	25,200	24,500	23,950	23,500		
20	21,000	20,600	19,950	19,350	18,850	18,400	18,050	17,750
25		15,450	15,450	15,450	15,450	15,100	14,800	14,520
30			11,270	11,270	11,270	11,270	11,270	11,270
35				8,660	8,660	8,660	8,660	8,660
40					6,940	6,940	6,940	6,940
45						5,550	5,550	5,550
50							4,500	4,500
55							3,600	3,600
60								2,850
65								2,260

Minimum boom angle (degrees) for indicated length (no load)

0

Maximum boom length (ft.) at 0 degree boom angle (no load)

70

A6-829-004357



28 - 70 ft.
(8.6 - 21.2 m)



10,170 lbs.
(4613 kg)



100%



Over Front



85% Domestic (Pounds)

(Feet)	28	34	40	46	52	58	64	70
10	36,000	35,350	34,350					
12	32,150	30,950	30,000	29,250				
15	27,100	26,100	25,200	24,500	23,950	23,500		
20	21,000	20,600	19,950	19,350	18,850	18,400	18,050	17,750
25		16,600	16,350	15,900	15,500	15,100	14,800	14,520
30			13,530	13,350	13,050	12,750	12,450	12,200
35				11,250	11,150	10,950	10,700	10,500
40					9,540	9,480	9,320	9,140
45						8,160	8,140	8,020
50							6,870	6,870
55							5,740	5,740
60								4,770
65								3,910

Minimum boom angle (degrees) for indicated length (no load)


0

Maximum boom length (ft.) at 0 degree boom angle (no load)

70

A6-829-004342




28 - 70 ft.
(8.6 - 21.2 m)


(23 ft.)
(7.0 m)


10,170 lbs.
(4613 kg)


100%


360°

 85% Domestic (Pounds)

Boom Angle	0° OFFSET	15° OFFSET	30° OFFSET
75°	12,000	7,700	5,070
70°	8,160	7,000	4,800
65°	5,680	5,350	4,500
60°	4,310	4,220	3,620
55°	3,330	3,300	2,940
50°	2,720	2,580	2,390
45°	2,210	2,130	2,010
40°	1,750	1,690	1,680
35°	1,460	1,420	1,420
30°	<u>1,240</u>	<u>1,210</u>	<u>1,200</u>

A6-829-004378D


28 - 70 ft.
(8.6 - 21.2 m)


10,170 lbs.
(4613 kg)


20 X 25 - 20PR Tires


360°
Stationary





75% Domestic (Pounds)

(Feet)	28	34	40	46	52	58	64
10	24,710	15,000	14,500				
12	<u>18,450</u>	13,500	12,100	12,100			
15	12,610	<u>12,100</u>	9,450	9,450	9,450		
20	7,290	7,290	<u>6,350</u>	6,100	6,100	6,100	6,100
25	4,780	4,780	4,780	<u>4,250</u>	4,250	4,250	4,250
30		3,350	3,350	3,350	<u>3,000</u>	3,000	3,000
35			2,410	2,410	2,410	<u>2,050</u>	2,050
40				1,690	1,690	1,690	<u>1,300</u>
45					1,050	1,050	<u>1,050</u>

A6-829-009270

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.



28 - 70 ft.
(8.6 - 21.2 m)



10,170 lbs.
(4613 kg)



20.5 X 25 - 20PR Tires



Defined Arc
Over Front
Stationary



75% Domestic (Pounds)

(Feet)	28	34	40	46	52	58	64	70
10	31,300	20,500	18,500					
12	27,500	18,500	16,500	16,500				
15	22,300	16,500	14,000	14,000	14,000			
20	13,940	13,940	10,500	10,500	10,500	10,500	10,500	
25	9,160	9,160	8,000	8,000	8,000	8,000	8,000	
30		6,850	6,850	6,250	6,250	6,250	6,250	6,250
35			5,180	5,180	4,950	4,950	4,950	4,950
40				4,020	4,020	3,900	3,900	3,900
45					3,140	3,140	3,050	3,050
50						2,430	2,430	2,350
55						1,860	1,860	1,750
60							1,440	1,440
65								1,140

A6-829-009269



28-70 ft.
(8.6 m - 21.2 m)



10,170 lbs.
(4613 kg)



20.5 x 25 - 20PR Tires



Pick & carry
Up to 2.5 MPH



75% Domestic (Pounds)

(Feet)	28	34	40	46	52	58	64	
10	28,470	18,000	18,000					
12	24,550	15,500	15,500	15,500				
15	20,420	12,500	12,500	12,500	12,500			
20	13,940	10,500	8,500	8,500	8,500	8,500	8,500	
25	9,160	9,160	6,500	6,500	6,500	6,500	6,500	
30		5,670	5,670	4,950	4,950	4,950	4,950	
35			4,430	4,430	3,900	3,900	3,900	
40				3,510	3,050	3,050	3,050	
45					2,760	2,350	2,350	
50						2,120	1,750	
55						1,580	1,580	
60								1,180

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






























Rated lifting capacities

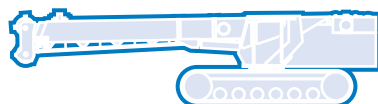
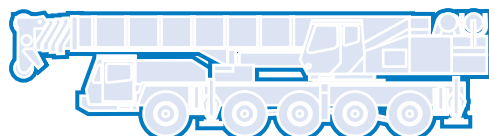
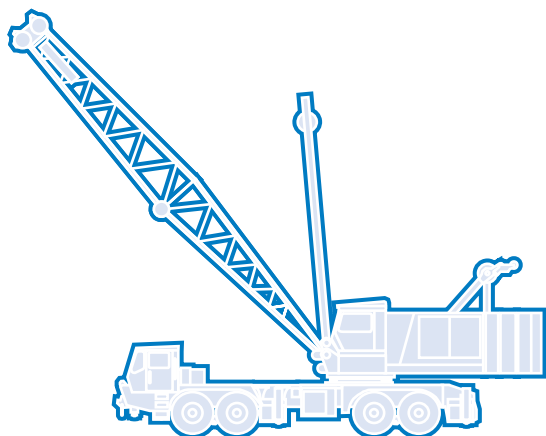
Important Notes:

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

1. All rated loads have been tested to and meet minimum requirements of SAEJ1063 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers (75% of the tipping load on rubber) as determined by SAEJ765 Crane Stability Test Code.
2. Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights must be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
3. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
4. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
5. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
6. For outrigger operation, ALL outriggers shall be fully extended with tires raised free of ground before raising the boom or lifting loads.

Symbols Glossary

	Frame		Steering
	Outriggers		Transmission
	Outrigger Controls		Axles
	Engine		Brakes
	Fuel Tank Capacity		Tires
	Electrical System		Suspension
	Drive		360° Rotation
	Lights		Boom Elevation
	Cab		Swing
	Boom		Counterweight
	Fixed Swingaway		Oil
	Tele-Swingaway		Hydraulic System
	Jib		Hoist
	Boom Nose		Radius
	Boom Extension		Boom Length
	Speed		Hookblock
	Grade		Gear
	Lattice Extension		Luffing Jib



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Distributed By:

RT58C

**18 TON CAPACITY
24 ft. - 42 ft. BOOM**

(FULL POWER)

85% OF TIPPING - ON OUTRIGGERS

75% OF TIPPING - ON RUBBER

NOTES FOR LIFTING CAPACITIES

GENERAL:

1. Rated loads as shown on lift chart pertain to this machine as originally manufactured and equipped. Modifications to the machine or use of optional equipment other than that specified can result in a reduction of capacity.
2. Construction equipment can be hazardous if improperly operated or maintained. Operation and maintenance of this machine shall be in compliance with the information in the operator's, parts, and safety manuals supplied with this machine. If these manuals are missing, order replacements from the manufacturer through the distributor.
3. The operator and other personnel associated with this machine shall fully acquaint themselves with the latest applicable American National Standards Institute (ANSI) Safety Standards for cranes.

SETUP:

1. The machine shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
2. For outrigger operation, outriggers shall be fully extended with tires raised free of crane weight before operating the boom or lifting loads.
3. If machine is equipped with front jack cylinder, the front jack cylinder shall be set in accordance with written procedure.
4. If machine is equipped with extendable counterweight, the counterweight shall be fully extended before operation.
5. Tires shall be inflated to the recommended pressure before lifting on rubber.
6. With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.

OPERATION:

1. Rated loads at rated radius shall not be exceeded. Do not tip the machine to determine allowable loads. For clamshell or concrete bucket operation, weight of bucket and load must not exceed 80% of rated lifting capacities.
2. Rated loads do not exceed 85% of the tipping load as determined by SAE Crane Stability Test Code J-765a.
3. Rated loads include the weight of hook block, slings and auxiliary lifting devices and their weights shall be subtracted from the listed ratings to obtain the net load to be lifted.
4. Load ratings are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
5. Rated loads do not account for wind on lifted load or boom. It is recommended when wind velocity is above 20 mph (32 km/h), rated loads and boom lengths shall be appropriately reduced.
6. Rated loads are for lift crane service only.
7. Do not operate at a radius or boom length where capacities are not listed. At these positions, the machine may overturn without any load on the hook.
8. The maximum load which can be telescoped is not definable because of variations in loadings and crane maintenance, but it is safe to attempt retraction and extension within the limits of the capacity chart.
9. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
10. For safe operation, the user shall make due allowances for his particular job conditions, such as: soft or uneven ground, out of level conditions, high winds, side loads, pendulum action, jerking or sudden stopping of loads, hazardous conditions, experience of personnel, two machine lifts, traveling with loads, electric wires, etc. Side pull on boom or jib is extremely dangerous.
11. Power telescoping boom sections must be extended equally at all times.
12. Handling of personnel from the boom is not authorized except with equipment furnished and installed by Grove Manufacturing Company.
13. Keep load handling devices a minimum of 12 inches (30 cm) below boom head when lowering or extending boom.
14. Loaded boom angles give an approximation of the operating radius at specified boom lengths. The boom angle before loading should be greater to account for deflection.
15. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
16. Capacities for the 24 ft. (7.4m) boom length shall be lifted with boom fully retracted. If boom is not fully retracted, capacities shall not exceed those shown for the 27 ft. (8.2m) boom length.
17. Lifting loads at close radii directly over the operator's compartment is not recommended.

DEFINITIONS:

1. Operating Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface before loading to the center of the vertical hoist line or tackle with load applied.
2. Loaded Boom Angle (Shown in Parenthesis on Main Boom Capacity Chart): is the angle between the boom base section and the horizontal, after lifting the rated load at the rated radius.
3. Working Area: Areas measured in a circular arc about the center line of rotation as shown on the working area diagram.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the lift cable.
5. Side Load: Horizontal force applied to the lifted load either on the ground or in the air.



RT

18 TON

24 ft. -

(FUR)

85% OF TIPPING

75% OF TIP

RATED LIFTING CAPACITIES IN POUNDS

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	Main Boom Length in Feet						
	24	27	30	33	36	39	42
10	36,000 (59.5)	36,000 (63)	36,000 (66)	36,000 (68.5)	36,000 (70.5)	36,000 (72)	36,000 (73.5)
12	35,800 (54)	35,800 (58)	35,800 (61.5)	35,800 (64.5)	35,600 (67)	35,000 (69)	34,600 (70.5)
15	29,300 (44)	29,300 (50)	29,300 (54.5)	29,300 (58.5)	29,300 (61.5)	29,300 (64)	29,300 (66)
20	20,660 (20)	20,660 (33)	20,660 (41.5)	20,660 (47.5)	20,660 (52)	20,660 (55.5)	20,660 (58)
25			14,030 (22.5)	14,030 (33.5)	14,030 (40.5)	14,030 (46)	14,030 (49.5)
30	See Warning Note 16				10,550 (25)	10,550 (34)	10,550 (39)
35						8,140 (14.5)	8,140 (25.5)
Min. Boom Angle (deg) for indicated length [No Load]							0
Max. Boom Length (ft.) at 0 degree boom angle [No Load]							42.0

NOTE: Boom angles are in degrees.

A6-829-004141A & -003681C

ON OUTRIGGERS FULLY EXTENDED - OVER FRONT

Radius in Feet	Main Boom Length in Feet						
	24	27	30	33	36	39	42
10	36,000 (59.5)	36,000 (63)	36,000 (66)	36,000 (68.5)	36,000 (70.5)	36,000 (72)	36,000 (73.5)
12	35,800 (54)	35,800 (58)	35,800 (61.5)	35,800 (64.5)	35,600 (67)	35,000 (69)	34,600 (70.5)
15	29,300 (44)	29,300 (50)	29,300 (54.5)	29,300 (58.5)	29,300 (61.5)	29,300 (64)	29,300 (66)
20	23,300 (20)	23,300 (33)	23,300 (41.5)	23,300 (47.5)	23,300 (52)	23,200 (55.5)	23,000 (58)
25			18,400 (22.5)	18,400 (33.5)	18,400 (40.5)	18,400 (46)	18,400 (49.5)
30	See Warning Note 16				14,900 (25)	14,900 (34)	14,900 (39)
35						11,710 (14.5)	11,710 (25.5)
Min. Boom Angle (deg) for indicated length [No Load]							0
Max. Boom Length (ft.) at 0 degree boom angle [No Load]							42.0

NOTE: Boom angles are in degrees.

A6-829-004142 & -003681C

GENERAL:

- Rated loads as shown on lift chart are for loads as originally manufactured and are not to be used for the machine or use of optional equipment that specified can result in a reduced rated load.
- Construction equipment can be used on this machine only if operated or maintained. Operation of this machine shall be in compliance with the operator's, parts, and specifications of this machine. If these machine specifications are replaced from the manufacturer's distributor.
- The operator and other personnel using this machine shall fully acquaint themselves with applicable American National Standards for cranes.

SETUP:

- The machine shall be level on a firm surface. Depending on the surface, it may be necessary to use larger bearing surface.
- For outrigger operation, the machine shall be extended with tires raised and operating the boom or lifting.
- If machine is equipped with a jacking cylinder shall be set in accordance with the procedure.
- If machine is equipped with a counterweight shall be in operation.
- Tires shall be inflated to the correct pressure before lifting on rubber.
- With certain boom and height capacities may not be applicable for cable lengths.

OPERATION:

- Rated loads at rated radius shall be used to determine the tip the machine to determine the clamshell or concrete bucket and load must not exceed 80% of rated load.
- Rated loads do not exceed the rated load determined by SAE Crane Standards.
- Rated loads include the weight of the auxiliary lifting devices and shall be subtracted from the rated load to be lifted.
- Load ratings are based on the rated load. An attempt shall be made to move the load in any direction.
- Rated loads do not account for the weight of the boom. It is recommended when the machine is moving at a speed of 32 km/h, rated loads should be appropriately reduced.
- Rated loads are for lift crane operation. Capacities are not listed. At the rated load, the machine may overturn without any load.
- The maximum load which can be lifted is definable because of variable maintenance, but it is safe to operate within the limits of the rated load.
- When either boom length or radius is greater than the values listed, the smallest load shall be used for the larger radius or boom length.
- For safe operation, the user shall be responsible for his particular job conditions, ground, out of level conditions, pendulum action, jerking or hazardous conditions, experience machine lifts, traveling with load, pull on boom or jib is extremely dangerous.
- Power telescoping boom shall be extended equally at all times.
- Handling of personnel from the machine except with equipment furnished by the Manufacturing Company.
- Keep load handling devices at least 15 cm below boom head when lifting.
- Loaded boom angles give operating radius at specified angle before loading should be taken into deflection.
- Capacities appearing above the rated load are structural strength and tipping capacities as a capacity limitation.
- Capacities for the 24 ft. (7.3m) boom, lifted with boom fully retracted, capacities shall not be used for 27 ft. (8.2m) boom length.
- Lifting loads at close radius and height is not recommended.

DEFINITIONS:

- Operating Radius: Horizontal distance from the axis of rotation to the center of the load with load applied.
- Loaded Boom Angle (Show on Boom Capacity Chart): is the angle between the base section and the horizontal line at the rated radius.
- Working Area: Areas measured from the center line of rotation as shown in the diagram.
- Freely Suspended Load: Load applied to the machine except for the weight of the load.
- Side Load: Horizontal force applied to the load either on the ground or in the air.

GROVE®

FULL HYDRAULIC SELF-PROPELLED CRANE

ON RUBBER CAPACITIES

20.5x25 (20 ply) TIRES

Radius in Feet	Stationary Capacity		Pick & Carry Capacity Up To 2.5 MPH Boom Centered (7) Over Front
	Defined Arc (3) Over Front	360° Arc	
10	27,520 (a)	19,100 (a)	28,720 (a)
12	25,500 (a)	14,200 (a)	25,000 (a)
15	18,980 (c)	10,230 (c)	18,980 (a)
20	12,080 (d)	6,400 (d)	12,080 (b)
25	8,520 (e)	4,320 (e)	8,520 (c)
30	6,410 (f)	3,200 (f)	6,410 (f)
35	5,060 (g)	2,330 (g)	5,060 (f)

A6-829-004122

17.5x25 (20 ply) TIRES

Radius in Feet	Stationary Capacity		Pick & Carry Capacity Up To 2.5 MPH Boom Centered (7) Over Front
	Defined Arc (3) Over Front	360° Arc	
10	28,300 (a)	18,320 (a)	25,280 (a)
12	25,800 (a)	14,360 (a)	21,970 (a)
15	19,240 (c)	10,150 (c)	18,170 (a)
20	11,810 (d)	6,210 (d)	11,810 (b)
25	8,360 (e)	4,270 (e)	8,150 (c)
30	6,180 (f)	3,170 (f)	6,180 (e)
35	4,800 (g)	2,370 (g)	4,800 (f)

A6-829-004128

14:00x24 (20 ply) TIRES

Radius in Feet	Stationary Capacity		Pick & Carry Capacity Up To 2.5 MPH Boom Centered (7) Over Front
	Defined Arc (3) Over Front	360° Arc	
10	24,750 (a)	18,810 (a)	23,150 (a)
12	23,330 (a)	14,040 (a)	21,340 (a)
15	18,770 (c)	9,650 (c)	18,640 (a)
20	11,420 (d)	5,900 (d)	11,420 (b)
25	7,950 (e)	4,140 (e)	7,950 (c)
30	6,000 (f)	3,010 (f)	6,000 (e)
35	4,680 (g)	2,210 (g)	4,680 (f)

A6-829-004134

MAXIMUM PERMISSIBLE BOOM LENGTH:

(a) 24 ft.	(e) 36 ft.
(b) 27 ft.	(f) 39 ft.
(c) 30 ft.	(g) 42 ft.
(d) 33 ft.	

		Main Boom 42.0 ft.	Main Boom w/20ft.jib
Front (No Load)	Minimum boom angle for indicated length	0°	0°
	Maximum boom length at 0° boom angle	42.0 ft.	62.0 ft.
360° (No Load)	Minimum boom angle for indicated length	0°	0°
	Maximum boom length at 0° boom angle	42.0 ft.	62.0 ft.

NOTES FOR ON RUBBER CAPACITIES

- Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J-765.
- Machines equipped with 20.5x25 (20 ply) tires require 80 psi cold inflation pressure (65 psi for 2.5 mph pick & carry capacities); 17.5x25 (20 ply) tires require 95 psi cold inflation pressure (85 psi for 2.5 mph pick & carry capacities); 14:00x24 (20 ply) tires require 115 psi cold inflation pressure (110 psi for 2.5 mph pick & carry capacities).
- (Defined Arc) - Over front includes $\pm 6^\circ$ on either side of longitudinal centerline of machine.
- Capacities appearing above bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- Capacities are applicable only with machine on a firm level surface.
- On rubber lifting with jib not permitted.
- For pick and carry operation, boom must be centered over front of machine and mechanical swing lock engaged. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speed.
- Axle lockouts must be functioning before lifting on rubber. (Check automatic lockout system for proper functioning: Refer to "operation and maintenance manual" for description of a proper functioning axle lockout system).
- All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity chart for tire used. Damaged tires are hazardous to safe operation of crane.
- Lifting loads at close radii directly over the operator's compartment is not recommended.

RT58C

18 TON CAPACITY

24 ft. - 42 ft. BOOM

(FULL POWER)

85% OF TIPPING - ON OUTRIGGERS

75% OF TIPPING - ON RUBBER

20 FT. A-FRAME JIB

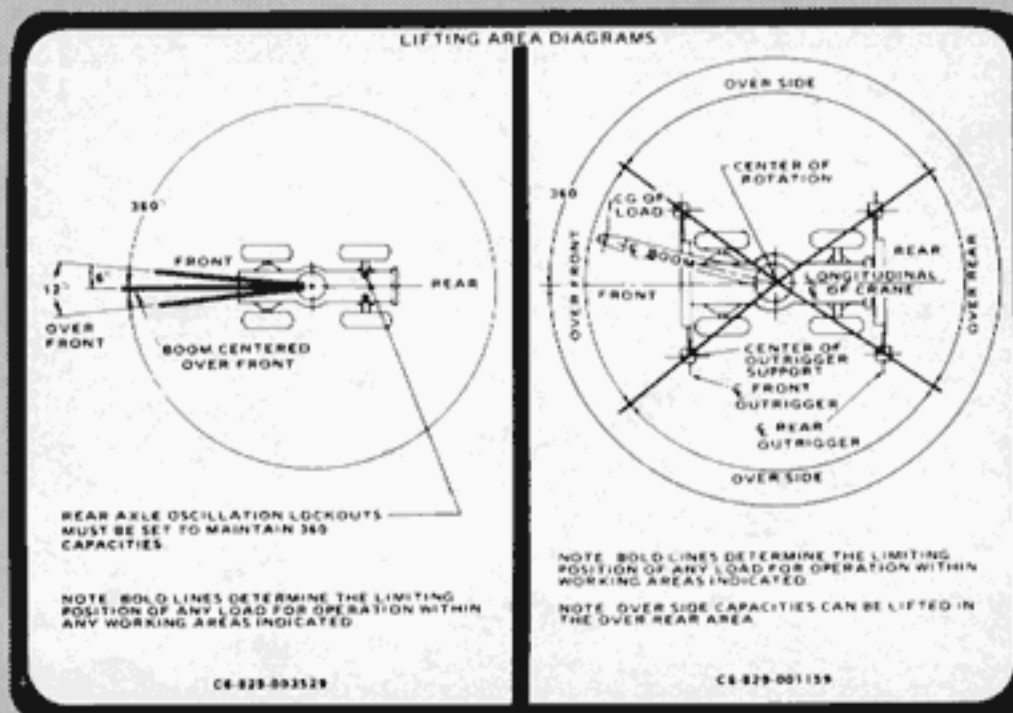
MAIN BOOM ANGLE	0° OFFSET		15° OFFSET		30° OFFSET	
	Radius (Ref.) Ft.	Cap. lbs.	Radius (Ref.) Ft.	Cap. lbs.	Radius (Ref.) Ft.	Cap. lbs.
75°	14.4	9,500	19.2	6,100	22.8	4,200
70	18.4	8,400	23.3	5,450	26.6	3,870
65	23.4	7,140	28.0	4,850	31.0	3,660
60	28.2	6,230	32.4	4,400	35.2	3,500
55	32.8	5,570	36.6	4,150	39.0	3,330
50	37.0	5,070	40.4	3,900	42.5	3,200
45	41.0	4,680	44.0	3,750	45.8	3,080
40	44.7	4,390	47.2	3,600	48.5	2,980
35	47.9	4,150	49.9	3,450	50.9	2,890
30	50.8	3,740	52.3	3,350	52.9	2,800

A6-829-003813F

NOTES FOR JIB CAPACITIES

1. All capacities are in pounds. 20 ft. jib may be used for double line lifting service. Capacities are based on structural strength of 20 ft. jib at a given main boom angle regardless of main boom length.
2. **WARNING:** Operation of machine with heavier loads than the capacities listed strictly prohibited. Machine tipping with jib occurs rapidly and without advance warning.
3. Capacities listed are with fully extended outriggers only.
4. **WARNING:** Lifting on rubber with jib is prohibited.
5. Reference radii listed are for fully extended main boom only.
6. No load stability on outriggers with 20 ft. jib installed.
 - a. Minimum boom angle for 42 ft. main boom = 0°
 - b. Maximum main boom length at 0° main boom angle = 42 ft.

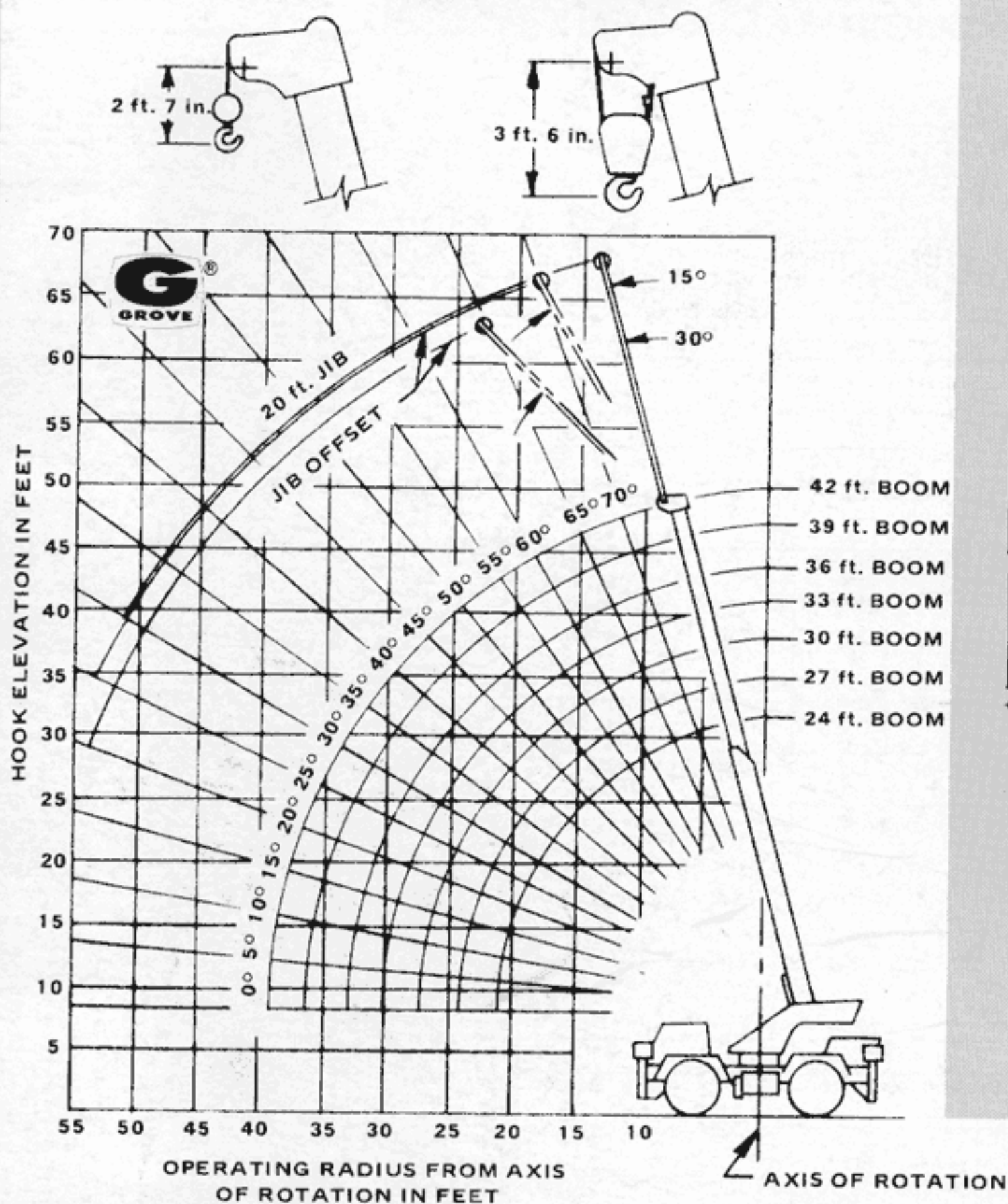
LIFTING AREA DIAGRAM



GROVE®

RT58C

RANGE DIAGRAM



WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

HOOK BLOCKS:	
15 ton, 2 sheave	300 lbs.
22 ton, 3 sheave	490 lbs.
12 ton, 1 sheave	400 lbs.
12 ton, 1 sheave	285 lbs.
Aux. Boom Head	100 lbs.
5 ton headache ball	150 lbs.

20 Ft. A-Frame JIB 24 ft. - 42 ft. BOOM	
+ STOWED	238 lbs.
+ ERECTED	1,368 lbs.

+ Reduction of main boom capacities.

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.

C6-829-003692



GROVE MANUFACTURING COMPANY

Division of Kilde, Inc.

KILDE

Box 21, Shady Grove, Pennsylvania 17256

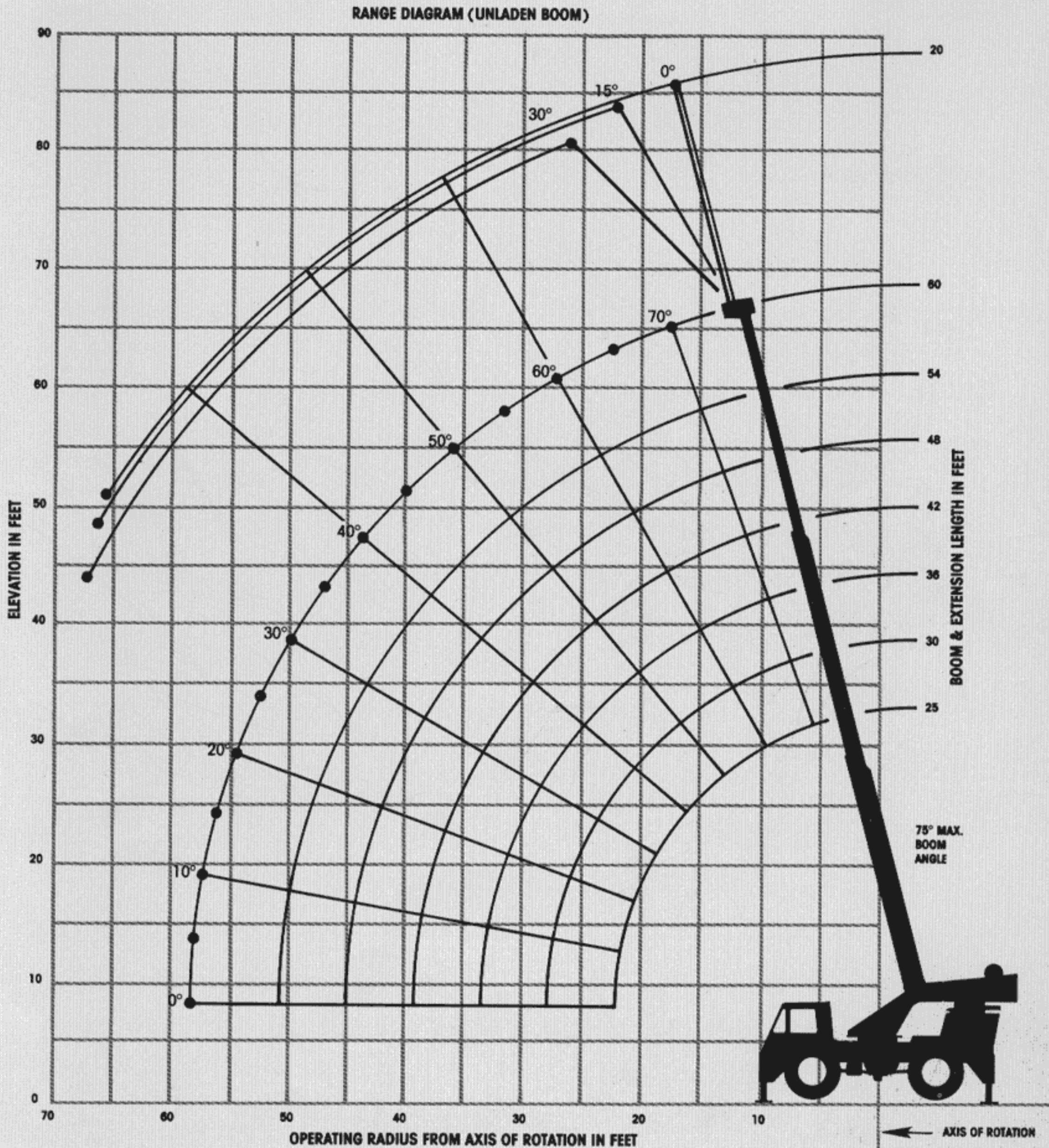
Phone: (717) 597-8121 Telex: 842308 Cable: GROVE MFG

Distributed by:



RT58C

Rough terrain hydraulic crane/25 ft.-60 ft. full power boom



NOTES FOR LIFTING CAPACITIES

1. All rated loads have been tested to and meet minimum requirements of SAE J1063 OCT80 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers (75% of the tipping load on rubber) as determined by SAE J765 OCT80 Crane Stability Test Code.
2. This chart is intended as a guide only. The individual crane's load chart operating instructions and other instruction plates give details of the conditions under which the crane may be operated safely. ALL OF THESE INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO OPERATING THE CRANE.
3. Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights MUST be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
4. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
5. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
6. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
7. For outrigger operation, ALL outriggers shall be fully extended with tires raised free of ground before raising the boom or lifting loads.
8. Tires shall be inflated to the recommended pressure before lifting on rubber.
9. Unless otherwise stated, capacities are with powered boom sections equally extended.
10. Defined Arc - 6° on either side of longitudinal centerline of machine.

Constant improvement and engineering progress makes 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.

North and South America, U.S.S.R., Far East, Australasia

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FORM NO.: LC-RT58C-60F.P.-Dom. 889-7.5M-FB PRINTED IN U.S.A.

ON RUBBER 17.5x25 TIRES - 20PR (STATIONARY - DEFINED ARC OVER FRONT)

Radius in Feet	Main Boom Length in Feet					
	25	30	36	42	48	54
10	24,100 (60)					
12	22,060 (54.5)	16,000 (62)	16,000 (67.5)	16,000 (71)	10,000 (74)	
15	17,380 (45)	13,000 (55)	13,000 (62)	13,000 (66.5)	10,000 (70)	
20	11,340 (23.5)	9,600 (41.5)	9,600 (52)	9,600 (59)	9,600 (63.5)	9,600 (67.5)
25		7,650 (23)	7,650 (41)	7,500 (50.5)	7,500 (56.5)	7,500 (61.5)
30			5,660 (25.5)	5,660 (40.5)	5,660 (49)	5,660 (55)
35				4,340 (27.5)	4,340 (40)	4,340 (48)
40					3,410 (28.5)	3,410 (40)
45						2,750 (30)
50						2,180 (13.5)
55						1,600 (16.5)

NOTE: Boom angles are in degrees.

A6-829-009166

ON RUBBER (STATIONARY CAPACITIES - 360°)

Radius in Feet	Main Boom Length in Feet					
	25	30	36	42	48	54
10	16,280 (60)					
12	13,000 (54.5)	10,000 (62)	10,000 (67.5)	10,000 (71)	10,000 (74)	
15	9,000 (45)	7,600 (55)	7,600 (62)	7,600 (66.5)	7,600 (70)	
20	5,290 (23.5)	5,000 (41.5)	5,000 (52)	5,000 (59)	5,000 (63.5)	5,000 (67.5)
25		3,440 (23)	3,440 (41)	3,440 (50.5)	3,440 (56.5)	3,440 (61.5)
30			2,440 (25.5)	2,440 (40.5)	2,440 (49)	2,440 (55)
35				1,780 (27.5)	1,700 (40)	1,700 (48)
40					1,220 (28.5)	1,100 (40)
45						820 (30)

A6-829-009191

ON RUBBER (PICK & CARRY CAPACITIES - UP TO 2.5 MPH)

Radius in Feet	Main Boom Length in Feet					
	25	30	36	42	48	54
10	24,750 (60)					
12	21,030 (54.5)	13,700 (62)	13,700 (67.5)			
15	16,830 (45)	11,100 (55)	11,100 (62)	11,100 (66.5)	11,100 (70)	
20	11,340 (23.5)	8,670 (41.5)	8,670 (52)	8,300 (59)	8,300 (63.5)	
25		7,650 (23)	7,650 (41)	6,400 (50.5)	6,400 (56.5)	6,400 (61.5)
30			5,410 (25.5)	5,000 (40.5)	5,000 (49)	5,000 (55)
35				4,340 (27.5)	4,000 (40)	4,000 (48)
40					3,410 (28.5)	3,100 (40)
45						2,750 (30)
50						2,180 (13.5)
55						1,600 (16.5)

NOTE: Boom angles are in degrees.

A6-829-009192

ON OUTRIGGERS - 360° 20 FT. "A" FRAME JIB

Main Boom Angle (Deg.)	0° OFFSET		15° OFFSET		30° OFFSET	
	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.
75	21.5	9,500	25.8	6,100	28.9	4,200
70	27.8	8,400	31.9	5,450	34.8	3,870
65	33.9	7,140	37.8	4,850	40.5	3,660
60	39.7	5,440	43.4	4,400	45.9	3,500
55	45.3	4,210	48.6	3,770	50.8	3,330
50	50.5	3,410	53.6	3,200	55.4	3,200
45	55.2	2,810	58.1	2,730	59.6	2,700
40	59.6	2,440	62.1	2,360	63.2	2,360
35	63.5	2,150	65.6	2,040	66.4	2,040
30	66.9	1,890	68.6	1,810	69.1	1,810

A6-829-003405

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

20 FT. A-FRAME JIB 25 FT. - 60 FT. BOOM	
†Stowed -	248 lbs.
†Erected -	1,375 lbs.

†Reduction of main boom capacities.

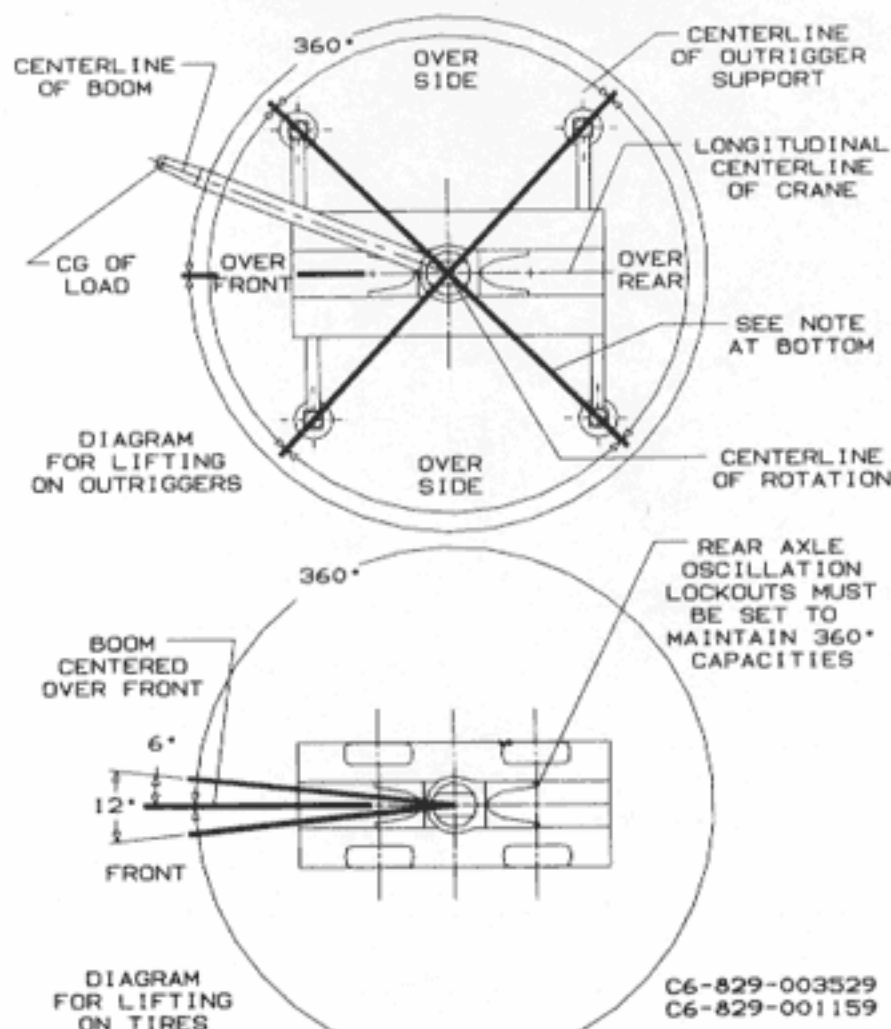
HOOKBLOCKS:

15 Ton, 2 Sheave	298 lbs.
22 Ton, 3 Sheave	455 lbs.
12 Ton, 1 Sheave (15 7/8")	360 lbs.
12 Ton, 1 Sheave (12 1/8")	270 lbs.
Auxiliary Boom Head	100 lbs.
5 Ton Headache Ball	172 lbs.

NOTES FOR RUBBER CAPACITIES

	No Load Stability Data	Main Boom 60 ft.	Main Boom & 20' Jib
Front	Min. boom angle (deg.) for indicated length	0	0
(No load)	Max. boom length (ft.) at 0 deg. boom angle	60	80
360 Deg.	Min. boom angle (deg.) for indicated length	10	42
(No load)	Max. boom length (ft.) at 0 deg. boom angle	54	70

LIFTING AREA DIAGRAM



BOLD LINES DETERMINE THE LIMITING POSITION OF ANY LOAD FOR OPERATION WITHIN WORKING AREAS INDICATED

WORKING AREA DIAGRAM

C6-829-003529
C6-829-001159

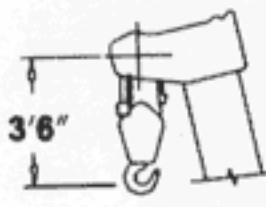
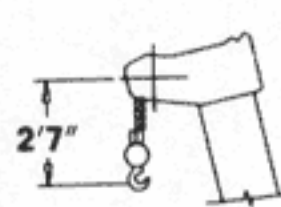
25 FT. - 60 FT. BOOM ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	Main Boom Length in Feet						
	25	30	36	42	48	54	60
10	36,000 (60)	36,000 (66)	36,000 (70.5)	36,000 (74)			
12	34,500 (54.5)	34,500 (62)	34,500 (67.5)	34,300 (71)	33,500 (74)		
15	28,000 (45)	28,000 (55)	28,000 (62)	28,000 (66.5)	28,000 (70)	27,600 (73)	25,000 (75.5)
20	19,600 (23.5)	19,600 (41.5)	19,600 (52)	19,600 (59)	19,600 (63.5)	19,600 (67.5)	19,600 (70.5)
25		13,300 (23)	13,300 (41)	13,300 (50.5)	13,300 (56.5)	13,300 (61.5)	13,300 (65)
30			9,730 (25.5)	9,730 (40.5)	9,730 (49)	9,730 (55)	9,730 (59.5)
35				7,440 (27.5)	7,440 (40)	7,440 (48)	7,440 (53.5)
40					5,880 (28.5)	5,880 (40)	5,880 (47)
45						4,820 (30)	4,820 (39.5)
50						4,000 (13.5)	4,000 (30)
55							3,350 (16.5)
Minimum boom angle (deg.) for indicated length (no load)							0
Maximum boom length (ft.) at 0 deg. boom angle (no load)							60

NOTE: Boom angles are in degrees.

A6-829-004139

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



25 FT. - 60 FT. BOOM ON OUTRIGGERS FULLY EXTENDED - OVER FRONT

Radius in Feet	Main Boom Length in Feet						
	25	30	36	42	48	54	60
10	36,000 (60)	36,000 (66)	36,000 (70.5)	36,000 (74)			
12	34,500 (54.5)	34,500 (62)	34,500 (67.5)	34,300 (71)	33,500 (74)		
15	28,000 (45)	28,000 (55)	28,000 (62)	28,000 (66.5)	28,000 (70)	27,600 (73)	25,000 (75.5)
20	22,200 (23.5)	22,200 (41.5)	22,200 (52)	22,200 (59)	22,200 (63.5)	21,900 (67.5)	21,500 (70.5)
25		17,400 (23)	17,400 (41)	17,400 (50.5)	17,400 (56.5)	17,400 (61.5)	17,400 (65)
30			14,100 (25.5)	14,100 (40.5)	14,100 (49)	14,100 (55)	14,100 (59.5)
35				11,320 (27.5)	11,320 (40)	11,320 (48)	11,320 (53.5)
40					9,010 (28.5)	9,010 (40)	9,010 (47)
45						7,470 (30)	7,470 (39.5)
50						6,200 (13.5)	6,200 (30)
55							5,100 (16.5)
Minimum boom angle (deg.) for indicated length (no load)							0
Maximum boom length (ft.) at 0 deg. boom angle (no load)							60

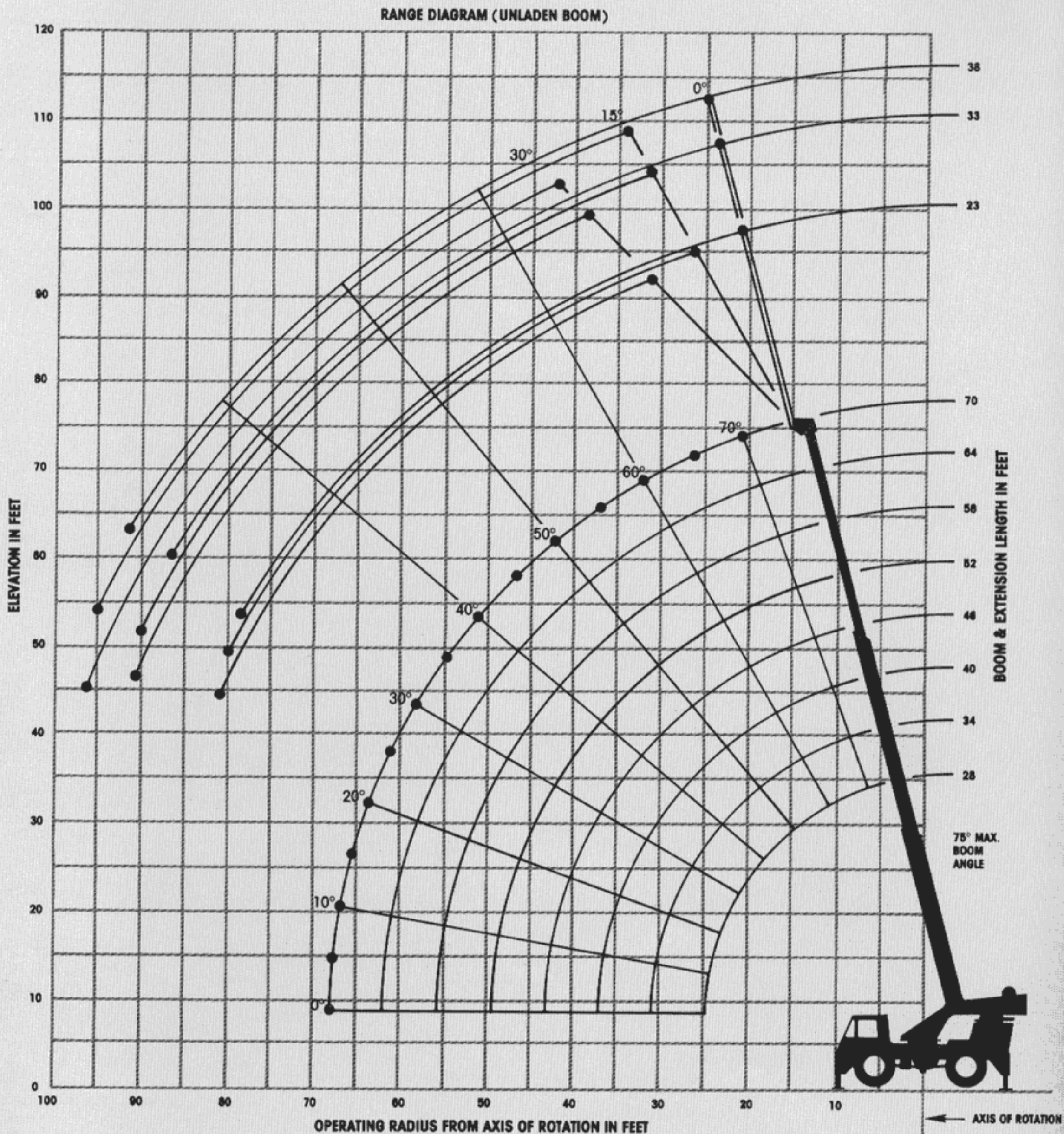
NOTE: Boom angles are in degrees.

A6-829-004140



RT58C

Rough terrain hydraulic crane/28 ft.-70 ft. full power boom



28 FT. - 70 FT. BOOM ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	Main Boom Length in Feet							
	28	34	40	46	52	58	64	70
10	36,000 (64)	35,350 (69)	34,350 (73)					
12	32,150 (59.5)	30,950 (65.5)	30,000 (70)	29,250 (73)				
15	27,100 (51.5)	26,100 (59.5)	25,200 (65)	24,500 (69)	23,950 (72)	23,500 (74.5)		
20	21,000 (36.5)	20,600 (49)	19,950 (57)	19,350 (62)	18,850 (66)	18,400 (69.5)	18,050 (72)	17,750 (74)
25		15,450 (36)	15,450 (47.5)	15,450 (54.5)	15,450 (60)	15,100 (64)	14,800 (67)	14,520 (69.5)
30			11,270 (36.5)	11,270 (46.5)	11,270 (53)	11,270 (58)	11,270 (62)	11,270 (65)
35				8,660 (36.5)	8,660 (45.5)	8,660 (51.5)	8,660 (56.5)	8,660 (60)
40					6,940 (36.5)	6,940 (45)	6,940 (50.5)	6,940 (55)
45						5,550 (37)	5,550 (44.5)	5,550 (49.5)
50							4,500 (37)	4,500 (43.5)
55							3,600 (28)	3,600 (37)
60								2,850 (28.5)
65								2,260 (15.5)
Minimum boom angle (deg.) for indicated length (no load)								0
Maximum boom length (ft.) at 0 deg. boom angle (no load)								70

NOTE: Boom angles are in degrees.

A6-829-004357

28 FT. - 70 FT. BOOM ON OUTRIGGERS FULLY EXTENDED - OVER FRONT

Radius in Feet	Main Boom Length in Feet							
	28	34	40	46	52	58	64	70
10	36,000 (64)	35,350 (69)	34,350 (73)					
12	32,150 (59.5)	30,950 (65.5)	30,000 (70)	29,250 (73)				
15	27,100 (51.5)	26,100 (59.5)	25,200 (65)	24,500 (69)	23,950 (72)	23,500 (74.5)		
20	21,000 (36.5)	20,600 (49)	19,950 (57)	19,350 (62)	18,850 (66)	18,400 (69.5)	18,050 (72)	17,750 (74)
25		16,600 (36)	16,350 (47.5)	15,900 (54.5)	15,500 (60)	15,100 (64)	14,800 (67)	14,520 (69.5)
30			13,530 (36.5)	13,350 (46.5)	13,050 (53)	12,750 (58)	12,450 (62)	12,200 (65)
35				11,250 (36.5)	11,150 (45.5)	10,950 (51.5)	10,700 (56.5)	10,500 (60)
40					9,540 (36.5)	9,480 (45)	9,320 (50.5)	9,140 (55)
45						8,160 (37)	8,140 (44.5)	8,020 (49.5)
50							6,870 (37)	6,870 (43.5)
55							5,740 (28)	5,740 (37)
60								4,770 (28.5)
65								3,910 (15.5)
Minimum boom angle (deg.) for indicated length (no load)								0
Maximum boom length (ft.) at 0 deg. boom angle (no load)								70

NOTE: Boom angles are in degrees.

A6-829-004342

ON OUTRIGGERS - 360° 23 FT. "A" FRAME JIB

Main Boom Angle (Deg.)	0° OFFSET		15° OFFSET		30° OFFSET	
	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.
75	27.0	12,000	32.5	7,700	35.7	5,070
70	33.3	8,160	38.1	7,000	41.2	4,800
65	40.2	5,680	44.9	5,350	47.8	4,500
60	47.0	4,310	51.3	4,220	54.0	3,620
55	53.2	3,330	57.3	3,300	59.8	2,940
50	59.2	2,720	62.9	2,580	65.1	2,390
45	64.7	2,210	68.0	2,130	69.9	2,010
40	69.6	1,750	72.6	1,690	74.2	1,680
35	74.0	1,460	76.6	1,420	77.9	1,420
30	77.8	1,240	80.1	1,210	81.0	1,200

A6-829-004378

WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

23 FT. JIB WITH 28 FT. - 70 FT. BOOM

† Stowed -	381 lbs.
† Erected -	1,950 lbs.

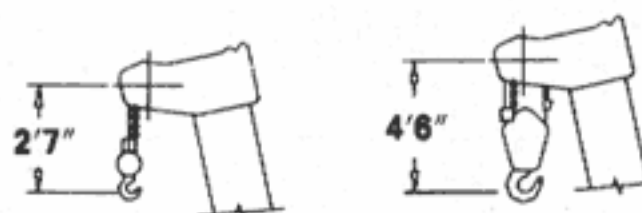
23 FT. - 38 FT. TELE. JIB WITH 28 FT. - 70 FT. BOOM

† Stowed -	604 lbs.
† Erected (Retracted) -	3,659 lbs.
† Erected (Extended) -	4,583 lbs.

† Reduction of main boom capacities.

HOOKBLOCKS:

15 Ton, 2 Sheave	298 lbs.
22 Ton, 3 Sheave	455 lbs.
12 Ton, 1 Sheave (15 7/8")	360 lbs.
12 Ton, 1 Sheave (12 1/8")	270 lbs.
Auxiliary Boom Head	100 lbs.
5 Ton Headache Ball	172 lbs.



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

NOTES FOR RUBBER CAPACITIES

No Load Stability Data		Main Boom 70 ft.	Main Boom & 23' Jib
Front	Min. boom angle (deg.) for indicated length	0	0
(No load)	Max. boom length (ft.) at 0 deg. boom angle	70	93
360 Deg.	Min. boom angle (deg.) for indicated length	27	55
(No load)	Max. boom length (ft.) at 0 deg. boom angle	58	67.2

23 FT. - 38 FT. TELE JIB ON OUTRIGGERS - 360°

Boom Angle (Deg.)	23 ft. JIB LENGTH (Fully Retracted)						33 ft. JIB LENGTH						38 ft. JIB LENGTH (Fully Extended)					
	0° OFFSET		15° OFFSET		30° OFFSET		0° OFFSET		15° OFFSET		30° OFFSET		0° OFFSET		15° OFFSET		30° OFFSET	
	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.	Rad. Ref. (ft.)	Cap. lbs.
75	27.5	12,500	31.4	7,300	35.0	4,500	29.0	7,600	35.3	4,900	41.5	2,900	31.0	5,000	39.0	3,750	45.4	2,230
70	33.3	8,560	37.8	6,390	40.6	4,150	35.9	6,500	42.5	4,270	48.8	2,650	37.9	4,650	45.6	3,300	51.8	1,990
65	40.2	6,060	44.7	5,750	47.2	3,900	43.9	5,280	50.2	3,820	56.1	2,440	46.3	4,470	53.7	2,950	59.3	1,870
60	47.0	4,480	51.3	4,000	53.6	3,250	51.6	3,840	57.5	3,250	62.8	2,330	54.3	3,100	61.2	2,640	66.4	1,770
55	53.2	3,430	57.3	2,950	59.5	2,710	58.8	2,910	64.3	2,470	69.2	2,230	62.0	2,740	68.4	2,350	72.9	1,680
50	59.2	2,640	62.9	2,230	65.1	2,230	65.7	2,300	70.7	1,860	74.9	1,850	69.2	2,090	75.0	1,800	78.9	1,620
45	64.7	1,980	68.0	1,750	69.9	1,750	71.9	1,810	76.5	1,400	80.2	1,400	75.8	1,640	81.1	1,400	84.3	1,400
40	69.6	1,510	72.6	1,400	74.2	1,400	77.7	1,360	81.7	1,180	84.7	1,180	81.8	1,310	86.4	1,150	89.0	1,080
35	74.0	1,180	76.6	1,100	77.9	1,100	82.8	1,080	86.2	880	88.6	880	87.2	1,000	91.2	880	93.0	880
30	77.8	920	80.1	870	81.0	870	87.3	820	90.2	760	91.8	760	92.0	770	95.2	760	96.3	600

A6-829-004412

ON RUBBER 20.5x25 (20 PLY) TIRES (STATIONARY - DEFINED ARC OVER FRONT)

Radius in Feet	Main Boom Length in Feet							
	28	34	40	46	52	58	64	70
10	31,300 (64)	20,500 (69)	18,500 (73)					
12	27,500 (59.5)	18,500 (65.5)	16,500 (70)	16,500 (73)				
15	22,300 (51.5)	16,500 (59.5)	14,000 (65)	14,000 (69)	14,000 (72)			
20	13,940 (36.5)	13,940 (49)	10,500 (57)	10,500 (62)	10,500 (66)	10,500 (69.5)	10,500 (72)	
25	9,160 (6)	9,160 (36)	8,000 (47.5)	8,000 (54.5)	8,000 (60)	8,000 (64)	8,000 (67)	
30		6,850 (15.5)	6,850 (36.5)	6,250 (46.5)	6,250 (53)	6,250 (58)	6,250 (62)	6,250 (65)
35			5,180 (20)	5,180 (36.5)	4,950 (45.5)	4,950 (51.5)	4,950 (56.5)	4,950 (60)
40				4,020 (23)	4,020 (36.5)	3,900 (45)	3,900 (50.5)	3,900 (55)
45					3,140 (25)	3,140 (37)	3,050 (44.5)	3,050 (49.5)
50						2,430 (26.5)	2,430 (37)	2,350 (43.5)
55						1,860 (3.5)	1,860 (28)	1,750 (37)
60							1,440 (13)	1,440 (28.5)
65								1,140 (15.5)

A6-829-009269

ON RUBBER (STATIONARY CAPACITIES - 360°)

Radius in Feet	Main Boom Length in Feet						
	28	34	40	46	52	58	64
10	24,710 (64)	15,000 (69)	14,500 (73)				
12	18,450 (59.5)	13,500 (65.5)	12,100 (70)	12,100 (73)			
15	12,610 (51.5)	12,100 (59.5)	9,450 (65)	9,450 (69)	9,450 (72)		
20	7,290 (36.5)	7,290 (49)	6,350 (57)	6,100 (62)	6,100 (66)	6,100 (69.5)	6,100 (72)
25	4,780 (6)	4,780 (36)	4,780 (47.5)	4,250 (54.5)	4,250 (60)	4,250 (64)	4,250 (67)
30		3,350 (15.5)	3,350 (36.5)	3,350 (46.5)	3,000 (53)	3,000 (58)	3,000 (62)
35			2,410 (20)	2,410 (36.5)	2,410 (45.5)	2,050 (51.5)	2,050 (56.5)
40				1,690 (23)	1,690 (36.5)	1,690 (45)	1,300 (50.5)
45					1,050 (25)	1,050 (37)	1,050 (44.5)

A6-829-009270

ON RUBBER (PICK & CARRY CAPACITIES - UP TO 2.5 MPH)

Radius in Feet	Main Boom Length in Feet						
	28	34	40	46	52	58	64
10	28,470 (64)	18,000 (69)	18,000 (73)				
12	24,550 (59.5)	15,500 (65.5)	15,500 (70)	15,500 (73)			
15	20,420 (51.5)	12,500 (59.5)	12,500 (65)	12,500 (69)	12,500 (72)		
20	13,940 (36.5)	10,500 (49)	8,500 (57)	8,500 (62)	8,500 (66)	8,500 (69.5)	8,500 (72)
25	9,160 (6)	9,160 (36)	6,500 (47.5)	6,500 (54.5)	6,500 (60)	6,500 (64)	6,500 (67)
30		5,670 (15.5)	5,670 (36.5)	4,950 (46.5)	4,950 (53)	4,950 (58)	4,950 (62)
35			4,430 (20)	4,430 (36.5)	3,900 (45.5)	3,900 (51.5)	3,900 (56.5)
40				3,510 (23)	3,050 (36.5)	3,050 (45)	3,050 (50.5)
45					2,760 (25)	2,350 (37)	2,350 (44.5)
50						2,120 (26.5)	1,750 (37)
55						1,580 (3.5)	1,580 (28)
60							1,180 (13)

NOTE: Boom angles are in degrees.

A6-829-009271

NOTES FOR LIFTING CAPACITIES

1. All rated loads have been tested to and meet minimum requirements of SAE J1063 OCT80 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers (75% of the tipping load on rubber) as determined by SAE J765 OCT80 Crane Stability Test Code.
2. This chart is intended as a guide only. The individual crane's load chart operating instructions and other instruction plates give details of the conditions under which the crane may be operated safely. ALL OF THESE INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO OPERATING THE CRANE.
3. Capacities given do not include the weight of hookblocks, slings, auxiliary lifting equipment and load handling devices. Their weights MUST be added to the load to be lifted. When more than minimum required reeving is used, the additional rope weight shall be considered part of the load.
4. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
5. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.
6. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.
7. For outrigger operation, ALL outriggers shall be fully extended with tires raised free of ground before raising the boom or lifting loads.
8. Tires shall be inflated to the recommended pressure before lifting on rubber.
9. Unless otherwise stated, capacities are with powered boom sections equally extended.
10. Defined Arc - 6° on either side of longitudinal centerline of machine.
11. With tele-boom extension in working position and main boom length greater than 70 ft., boom angle must not be less than 30°.

Constant improvement and engineering progress makes 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.

North and South America, U.S.S.R., Far East, Australasia

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