



GROVE®

RT875C

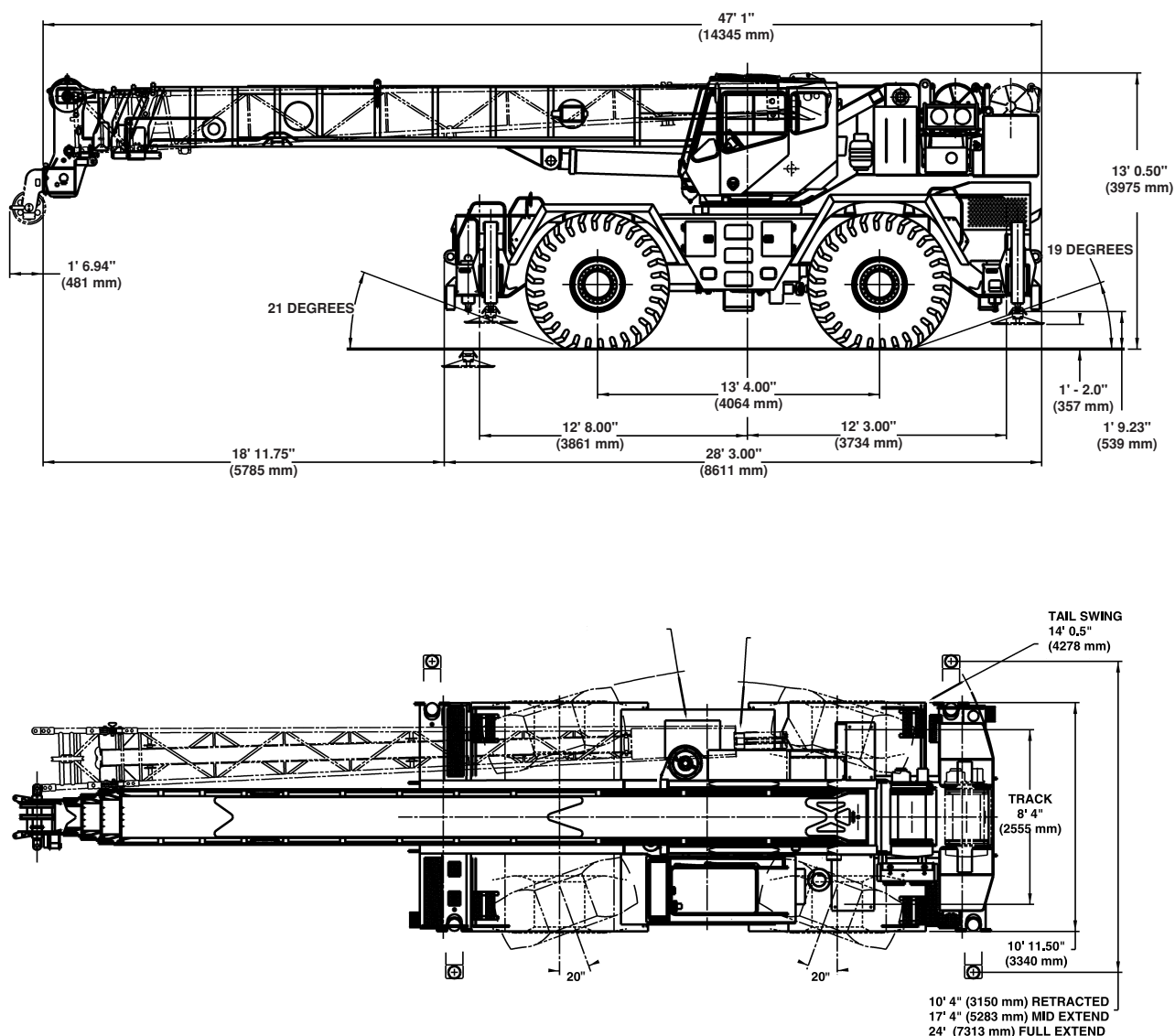


ROUGH TERRAIN HYDRAULIC CRANE





Dimensions



Note: () Reference dimensions in mm

RT875C Weights

	GVW		Front		Rear	
	lbs	kg	lbs	kg	lbs	kg
Axle/Tie Allowable Weights	115,000	52,164	60,500	27,443	54,500	24,721
RT875C Basic Machine with 125 ft. boom, main and auxiliary hoists w/ rope, 35 to 60 ft. telescopic extension, auxiliary boom nose, 75 ton hookblock and 10-ton headache ball.	109,107	49,491	59,156	26,833	49,951	22,658
REMOVE: Counterweight	-11,500	-5,216	5,355	2,429	-16,855	-7,645
REMOVE: 35 to 60 ft. telescopic extension	-2,893	-1,312	-4,853	-2,201	1,960	889
REMOVE: 75 ton hookblock	-1,711	-533	-2,994	-1,358	1,283	582
REMOVE: 10 ton headache ball	-560	-254	-980	-445	420	191
REMOVE: Auxiliary hoist cable	-813	-369	379	172	-1,192	-541
SUBSTITUTE: 35 ft. extension	-739	-335	-1,240	-562	501	227

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Working Range



40 – 125 ft.
(12 - 38 m)



Tele-Swingaway

35 – 60 ft.
(10.6 - 18.2m)



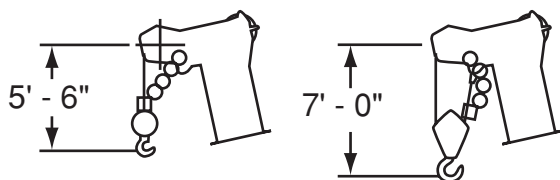
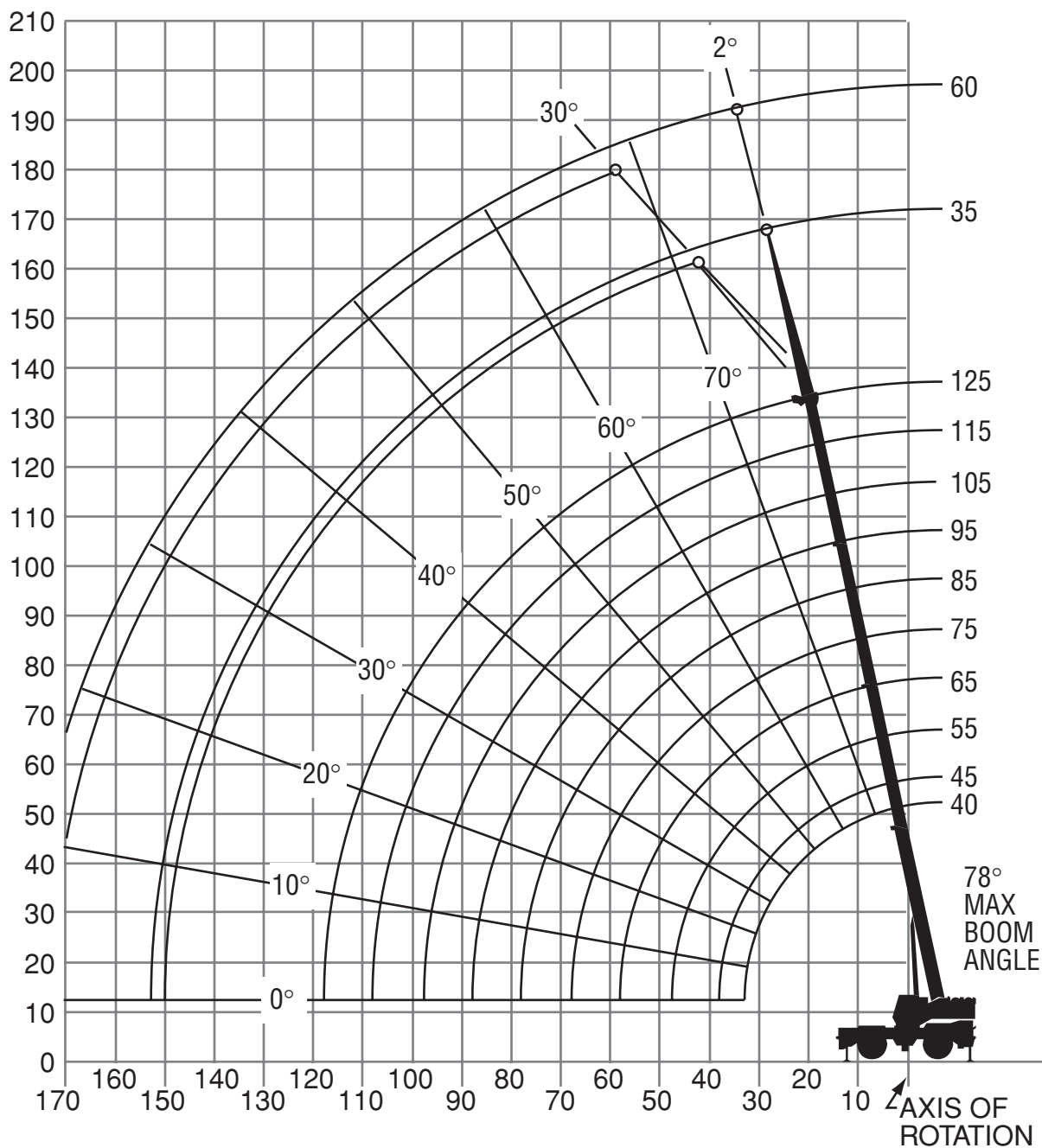
11,500 lbs.
(5216 kg)



100%



360°



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

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Superstructure Specifications

Boom

40 ft. - 125 ft. (12 m - 38 m) four-section, full power boom. Maximum tip height: 135 ft. (41 m).

Lattice Extension

35 ft. - 60 ft. (10.6 m - 18.2 m) telescoping lattice swingaway extension offsettable at 2° or 30°. Stows alongside base boom section. Maximum tip height: 193 ft. (59 m).

*Optional Lattice Extension

35 ft. (10.6 m) lattice swingaway extension. Offsettable at 2° or 30°. Stows alongside base boom section. Maximum tip height: 169 ft. (51.5 m).

Boom Nose

Six Nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeving type boom nose. Removable auxiliary boom nose with removable pin type rope guard.

Boom Elevation

One double acting hydraulic cylinder with integral holding valve provides elevation from -3° to 78°.

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, boom length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition.

Cab

Full vision, all galvanealed steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat with armrest mounted hydraulic single axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include: skylight screen, hydraulic oil cab heater/defroster, telescoping tilt wheel, sliding side and rear windows, opening skylight, electric windshield wash-wipe, electric skylight wipers, work light, fire extinguisher, seat belt, ashtray and level indicator.

Swing

Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released swing brake. 360° positive swing lock and 1 position mechanical house lock, operated from cab. Maximum speed: 2.0 RPM.

Counterweight

Removable: 11,500 lbs. (5 216 kg).
2,155 lbs. (977 kg) slab I.P.O. auxiliary hoist.

Hydraulic System

Seven main pumps with a combined capacity of 199.2 GPM (754 LPM).
Maximum operating pressure: 3500 psi (241 bar).
Three individual pressure compensated valve banks.
Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16. 200 gallon (757 L) reservoir.
Remote mounted oil cooler with thermostatically controlled hydraulic motor driven fan/air to oil.
System pressure test panel with quick release type fittings for each circuit.

Hoist Specifications

Main and Auxiliary Hoist

Planetary reduction with automatic spring applied multi-disc brake. Electronic hoist drum rotation indicator, and hoist drum cable followers.

Maximum Single Line Pull: 16,969 lb. (7 697 kg)

Maximum Permissible Line Pull: 12,920 lb. (5 860 kg)

Maximum Single Line Speed: 517 FPM (157 m/min)

Rope Class: 18x19 EIPS WSC, rotation resistant

Rope Diameter: 3/4" (19 mm)

Rope Length: 650 ft. (198 m)

Maximum Rope Stowage: 1,163 ft. (355 m)



Carrier Specifications

Chassis

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

Outrigger System

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position setting, 0%, 50% and fully extended. All steel fabricated, quick release type outrigger floats, 30.5" (775 mm) diameter. Maximum outrigger pad load: 101,524 lbs. (46 050 kg).

Outrigger Controls

Controls and crane level indicator located in cab.

Engine

Cummins 6CTA 8.3L diesel, six cylinders, turbocharged, 250 bhp (191 kW) (Gross) @ 2,500 RPM. Maximum torque: 650 ft. lbs. (881 Nm) @ 1,800 RPM.

*Optional Engine

Caterpillar 3126 DITA diesel, six cylinders, turbocharged, 250 bhp (186 kW) (Gross) @ 2,500 RPM. Maximum torque: 683 ft. lb. (926 Nm) @ 1,650 RPM.

Fuel Tank Capacity

80 gallons (303 L)

Transmission

Full powershift with 6 forward and 6 reverse speeds. Rear axle disconnect for 4 x 2 travel.

Electrical System

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

Drive

4 x 4

Steering

Fully independent power steering:
Front: Full hydraulic steering wheel controlled.
Rear: Full hydraulic switch controlled.
Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated.
Rear steer indicator gauge. Turning radius: 22 ft. 6 in.

Axles

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

Rear: Drive/steer with differential and planetary reduction hubs pivot mounted to frame.

Oscillation Lockouts

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

Brakes

Full air split circuit operating on all wheels. Spring-applied, air released parking brake operating on front and rear axles.

Tires

Std. 33.25 x 29 - 32PR earthmover type.
*Optional: 33.25R29 radial.

Lights

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

Maximum Speed

25 MPH (40 kph).

Gradeability (Theoretical)

76% (Based on 104,031 lbs. [47 188 kg] GVW) 33.25 x 29 tires, pumps disengaged, 125 ft. (38 m) boom, plus 35 ft. (10.6 m) swingaway.

Miscellaneous Standard Equipment

Full width steel fenders, dual rear view mirrors, hook-block tiedown, electronic back-up alarm, light package, front stowage well, tachometer/hourmeter, cold start aid (less canister), immersion type block heater, rear wheel position indicator, hydraulic cab heater, hoist mirrors, engine distress A/V warning system, tire inflation kit.

OPTIONAL EQUIPMENT

- *CHASSIS OPTION PACKAGE (Includes cab controlled cross axle differential locks front and rear.)
- *AUXILIARY LIGHTING PACKAGE (Includes cab mounted amber flashing light, hoist mounted worklight, and dual base boom mounted flood lights.)
- *Air conditioning.
- *Electric override control for rear axle oscillation lockouts.
- *Remote controlled, cab mounted worklights.
- *Hookblock and headache ball.
- *Rear pintle hook.
- *Auto grease system for turntable.
- *LMI light bar (in-cab)
- *Hydraulic counterweight removal system.

**Denotes optional equipment*



RATED LIFTING CAPACITIES IN POUNDS 40 FT. - 125 FT. BOOM

ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	#0001									
	Main Boom Length in Feet									
	40	45	55	65	75	85	95	105	115	125
10	150,000 (70)	105,000 (72.5)								
12	123,500 (67)	105,000 (70)	94,600 (74)							
15	108,000 (61.5)	104,000 (65.5)	88,250 (70.5)	71,050 (74)						
20	78,400 (52.5)	77,850 (58)	76,350 (65)	60,400 (69)	55,250 (72.5)	48,150 (75)				
25	59,450 (41.5)	58,950 (49.5)	58,250 (58.5)	56,100 (64.5)	47,950 (68.5)	41,700 (71.5)	38,000 (73.5)	33,350 (75.5)		
30	46,950 (26)	46,550 (39.5)	45,900 (52)	45,400 (59)	41,950 (64)	36,700 (67.5)	33,300 (70.5)	30,750 (72.5)	24,550 (75)	*23,700 (76.5)
35		37,700 (26)	37,150 (44.5)	36,700 (53.5)	36,250 (59.5)	32,600 (64)	29,550 (67)	27,300 (69.5)	21,700 (72)	21,900 (74)
40	See Note 16		30,300 (35.5)	30,100 (47.5)	30,750 (54.5)	29,000 (60)	26,450 (63.5)	24,450 (66.5)	19,350 (69.5)	20,300 (71.5)
45			24,450 (23)	23,800 (40.5)	24,300 (49.5)	25,350 (55.5)	23,850 (60)	22,000 (63.5)	17,450 (66.5)	18,800 (69)
50				19,150 (32.5)	19,550 (44)	20,550 (51.5)	21,300 (56.5)	19,850 (60.5)	15,800 (64)	17,050 (66.5)
60					13,050 (30)	14,000 (41.5)	14,950 (48.5)	15,400 (53.5)	13,250 (58)	14,150 (61.5)
70						9,730 (28.5)	10,650 (39)	11,100 (46)	11,400 (51.5)	11,850 (55.5)
80							7,640 (27)	8,060 (37)	8,440 (44.5)	8,800 (49.5)
90								5,740 (25.5)	6,110 (36)	6,460 (42.5)
100									4,280 (25)	4,580 (34.5)
110										3,090 (24)
Minimum boom angle (deg.) for indicated length (no load)										0
Maximum boom length (ft.) at 0 degree boom angle (no load)										125

NOTE: () Boom angles are in degrees.

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*Based on maximum obtainable boom angle.

#LMI operating code. Refer to LMI manual for operating instructions.

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35 FT. FIXED LENGTH OFFSETTABLE BOOM EXTENSION ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	35 ft. LENGTH	
	#0051	#0053
	2° OFFSET	30° OFFSET
40	*12,900 (77)	
45	11,900 (75.5)	
50	11,200 (73.5)	
55	10,600 (71.5)	*7,800 (77)
60	10,050 (69.5)	7,530 (74.5)
65	9,650 (67.5)	7,410 (72.5)
70	9,110 (65.5)	7,280 (70.5)
75	8,700 (63.5)	7,160 (68)
80	8,330 (61.5)	7,050 (66)
85	7,990 (59)	6,950 (64)
90	7,330 (57)	6,850 (61.5)
95	6,330 (54.5)	6,330 (59)
100	5,450 (52.5)	5,450 (56.5)
105	4,660 (50)	4,660 (54)
110	3,950 (47.5)	3,950 (51.5)
115	3,310 (44.5)	3,310 (48.5)
120	2,730 (41.5)	2,730 (45.5)
125	2,200 (38.5)	2,200 (42.5)
130	1,710 (35.5)	1,710 (38.5)
135	1,270 (31.5)	1,270 (34.5)

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NOTE: () Boom angles are in degrees.

*This capacity is based upon maximum boom angle.

#LMI operating code. Refer to LMI manual for instructions.

1. All capacities above the bold line are based on structural strength of boom extension.
2. 35 ft. boom extension length may be used for single line lifting service only.
3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

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. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
5. Capacities listed are with outriggers fully extended and vertical jacks set only.
6. **35 FT. FIXED LENGTH BOOM EXTENSION**
WARNING: For main boom length greater than 105 ft. with 35 ft. boom extension in working position, the boom angle must not be less than 27.5° since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 105 ft. This warning also applies for boom extension erection purposes.

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RATED LIFTING CAPACITIES IN POUNDS WITH 35 FT. - 60 FT. TELE-OFFSETTABLE BOOM EXTENSION ON OUTRIGGERS FULLY EXTENDED - 360°

Radius in Feet	35 ft. LENGTH		60 ft. LENGTH	
	#0021	#0023	#0041	#0043
	2° OFFSET	30° OFFSET	2° OFFSET	30° OFFSET
40	*12,900 (77)			
45	11,600 (75.5)			
50	10,900 (73.5)		*6,700 (77)	
55	10,300 (71.5)	*7,500 (77)	6,320 (75)	
60	9,750 (69.5)	7,250 (74.5)	6,000 (73.5)	
65	9,250 (67.5)	7,110 (72.5)	5,630 (71.5)	
70	8,810 (65.5)	6,980 (70.5)	5,260 (70)	
75	8,400 (63.5)	6,860 (68)	4,900 (68.5)	*4,000 (77)
80	8,030 (61.5)	6,750 (66)	4,630 (66.5)	3,700 (74.5)
85	7,690 (59)	6,650 (64)	4,360 (65)	3,500 (73)
90	6,840 (57)	6,560 (61.5)	4,100 (63)	3,350 (71)
95	5,840 (54.5)	5,840 (59)	3,800 (61)	3,270 (69)
100	4,950 (52.5)	4,950 (56.5)	3,640 (59.5)	3,210 (67)
105	4,160 (50)	4,160 (54)	3,490 (57.5)	3,150 (65)
110	3,450 (47.5)	3,450 (51.5)	3,350 (55.5)	3,100 (63)
115	2,810 (44.5)	2,810 (48.5)	3,220 (53.5)	3,050 (61)
120	2,230 (41.5)	2,230 (45.5)	3,100 (51)	3,010 (58.5)
125	1,700 (38.5)	1,700 (42.5)	2,990 (49)	2,970 (56.5)
130	1,210 (35.5)	1,210 (38.5)	2,770 (47)	2,770 (54)
135			2,290 (44.5)	2,290 (51.5)
140			1,850 (42)	1,850 (48.5)
145			1,450 (39.5)	1,450 (46)
150			1,070 (36.5)	1,070 (42.5)

NOTE: () Boom angles are in degrees.

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*This capacity is based upon maximum boom angle.

#LMI operating code. Refer to LMI manual for instructions.

1. All capacities above the bold line are based on structural strength of boom extension.
2. 35 ft. and 60 ft. boom extension lengths may be used for single line lifting service only.
3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

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. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
5. Capacities listed are with outriggers fully extended and vertical jacks set only.
6. **35 FT. TELE OFFSETTABLE BOOM EXTENSION WARNING:** For main boom length greater than 105 ft. with 35 ft. tele. boom extension in working position, the boom angle must not be less than 32.5° since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 105 ft. This warning also applies for boom extension erection purposes.

60 FT. TELE OFFSETTABLE BOOM EXTENSION WARNING: For main boom length greater than 95 ft. with 60 ft. tele. boom extension in working position, the boom angle must not be less than 35° since loss of stability will occur causing a tipping condition. The boom angle is not restricted for main boom length equal to or less than 95 ft. This warning also applies for boom extension erection purposes.



RATED LIFTING CAPACITIES ON RUBBER WITH 33.25x29 TIRES

STATIONARY CAPACITIES - 360°

Radius in Feet	#9005						
	Main Boom Length in Feet						
	40	45	55	65	75	85	95
10	66,250 (70.5)	63,400 (73)					
12	51,800 (67.5)	51,500 (70.5)	50,900 (74.5)				
15	35,850 (62.5)	35,450 (66)	33,500 (71)	30,800 (74.5)			
20	21,500 (53.5)	21,200 (58.5)	20,650 (65)	18,950 (69.5)	21,250 (72.5)	18,200 (75)	
25	14,050 (42.5)	13,800 (50)	13,300 (59)	12,850 (64.5)	13,650 (68.5)	14,800 (71.5)	13,950 (74)
30	9,430 (28)	8,920 (40)	8,590 (52)	8,260 (59.5)	8,470 (64)	8,920 (68)	9,980 (70.5)
35		5,750 (26.5)	5,100 (44.5)	4,460 (54)	5,000 (59.5)	6,060 (64)	6,500 (67.5)
40			3,000 (35.5)	2,160 (47.5)	3,260 (55)	3,870 (60)	4,100 (64)
45							2,330 (60.5)

NOTE: () Boom angles are in degrees.

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STATIONARY CAPACITIES - DEFINED ARC OVER FRONT (See Note 3 pg 10)

Radius in Feet	#9005						
	Main Boom Length in Feet						
	40	45	55	65	75	85	95
10	86,100 (70.5)	72,250 (73)					
12	76,400 (67.5)	61,250 (70.5)	51,600 (74.5)				
15	63,250 (62.5)	49,350 (66)	44,300 (71)	42,950 (74.5)			
20	47,850 (53.5)	36,450 (58.5)	34,700 (65)	33,300 (69.5)	34,300 (72.5)	20,150 (75)	13,950 (77)
25	32,650 (42.5)	28,150 (50)	27,400 (59)	26,150 (64.5)	26,700 (68.5)	20,150 (71.5)	13,950 (74)
30	23,200 (28)	22,400 (40)	21,600 (52)	20,550 (59.5)	20,950 (64)	20,150 (68)	13,950 (70.5)
35		16,850 (26.5)	16,500 (44.5)	16,100 (54)	16,500 (59.5)	16,750 (64)	13,950 (67.5)
40			12,250 (35.5)	11,950 (47.5)	12,550 (55)	13,350 (60)	13,950 (64)
45			9,140 (23.5)	8,870 (41)	9,450 (50)	9,980 (56)	11,050 (60.5)
50				6,510 (32.5)	7,070 (44)	7,790 (51.5)	8,620 (56.5)
60					3,620 (30)	4,400 (41.5)	4,770 (48.5)
70						1,910 (28.5)	2,740 (39.5)

NOTE: () Boom angles are in degrees.

A6-829-012278

#LMI operating code. Refer to LMI manual for operating instructions.

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RATED LIFTING CAPACITIES ON RUBBER WITH 33.25x29 TIRES (cont'd.)

PICK & CARRY CAPACITIES - UP TO 2.5 MPH
BOOM CENTERED OVER FRONT

Radius in Feet	#9006						
	Main Boom Length in Feet						
	40	45	55	65	75	85	95
10	87,650 (70.5)	84,400 (73)					
12	76,500 (67.5)	74,250 (70.5)	69,200 (74.5)				
15	63,700 (62.5)	63,500 (66)	56,400 (71)	52,100 (74.5)			
20	48,850 (53.5)	48,650 (58.5)	43,700 (65)	38,300 (69.5)	38,300 (72.5)	30,100 (75)	21,400 (77)
25	32,650 (42.5)	32,400 (50)	31,900 (59)	30,100 (64.5)	30,100 (68.5)	27,150 (71.5)	21,400 (74)
30	23,200 (28)	22,950 (40)	22,250 (52)	22,100 (59.5)	22,850 (64)	24,000 (68)	21,400 (70.5)
35		16,850 (26.5)	16,500 (44.5)	16,100 (54)	16,750 (59.5)	17,850 (64)	18,900 (67.5)
40			12,250 (35.5)	11,950 (47.5)	12,550 (55)	13,550 (60)	14,500 (64)
45			9,140 (23.5)	8,870 (41)	9,450 (50)	10,350 (56)	11,300 (60.5)
50				6,510 (32.5)	7,070 (44)	7,950 (51.5)	8,840 (56.5)
60					3,650 (30)	4,470 (41.5)	5,290 (48.5)
70						2,180 (28.5)	2,870 (39.5)
80							1,120 (27)

NOTE: () Boom angles are in degrees.

A6-829-012280

#LMI operating code. Refer to LMI manual for operating instructions.

1. Capacities do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
2. Capacities are applicable to machines equipped with General 33.25x29 (32 ply) tires at 65 psi cold inflation pressure.
3. Defined Arc - Over front includes 6° on either side of longitudinal centerline of machine.
4. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
5. Capacities are applicable only with machine on firm level surface.
6. On rubber lifting with boom extensions not permitted.
7. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speeds.
8. Axle lockouts must be functioning when lifting on rubber.
9. 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.
10. Creep - not over 200 ft. of movement in any 30 minute period and not exceeding 1 mph.

	No Load Stability Data	Main Boom 95 ft.
Front (No Load)	Min. boom angle (deg.) for indicated length	30
	Max. boom length (ft.) at 0 deg. boom angle	75
360 Deg. (No Load)	Min. boom angle (deg.) for indicated length	56.5
	Max. boom length (ft.) at 0 deg. boom angle	45

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WEIGHT REDUCTIONS FOR LOAD HANDLING DEVICES

35 FT. BOOM EXTENSION	
*Stowed -	767 lbs.
*Erected -	4,823 lbs.
35 FT. - 60 FT. TELE. BOOM EXTENSION	
*Stowed -	1,033 lbs.
*Erected (Retracted) -	6,499 lbs.
*Erected (Extended) -	8,740 lbs.

*Reduction of main boom capacities

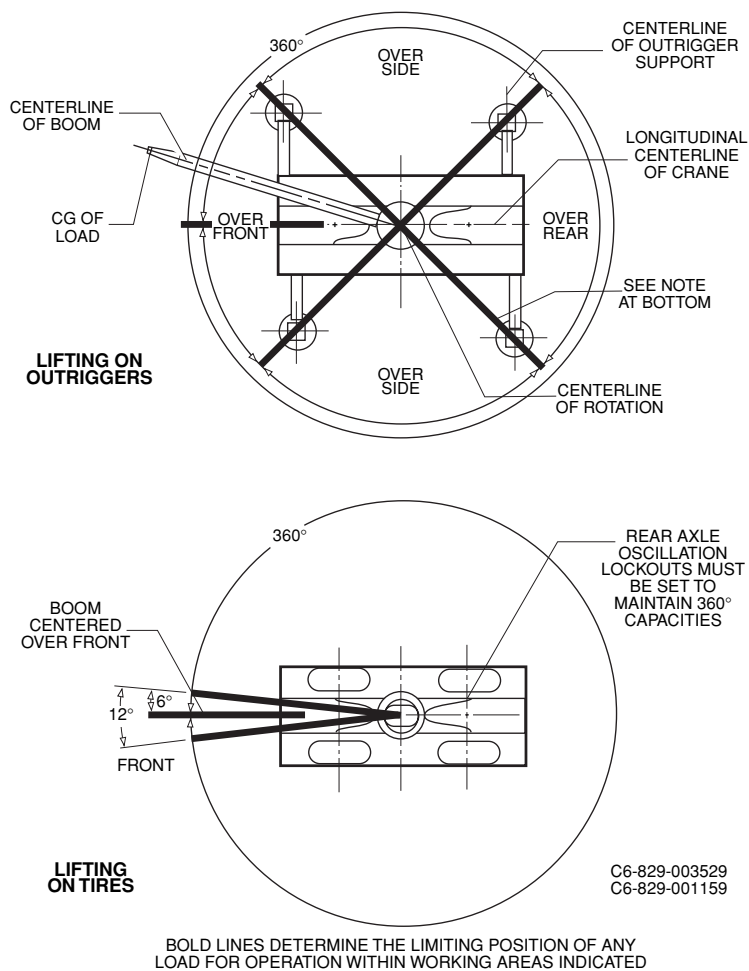
AUXILIARY BOOM HEAD	112 lbs.
HOOKBLOCKS and HEADACHE BALLS:	
75 ton, 6 sheave	1,711 lbs.+
70 Ton, 6 Sheave	1,674 lbs.+
45 Ton, 3 Sheave	830 lbs.+
15 Ton, 1 Sheave	420 lbs.+
10 Ton Headache Ball	560 lbs.+

+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.

Diagram Of Working Area



LINE PULLS AND REEVING INFORMATION

HOISTS	CABLE SPECS.	PERMISSIBLE LINE PULLS
Main & Aux. Model 30	3/4" (19 mm) 18x19Class or 35x7 Rotation Resistant Min. Breaking Str. 64,600 lbs.	12,920 lbs.
Main & Aux. Model 30	3/4" (19 mm) 6x37 Class EIPS IWRC Special Flexible Min. Breaking Str. 58,800 lbs.	12,920 lbs.

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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