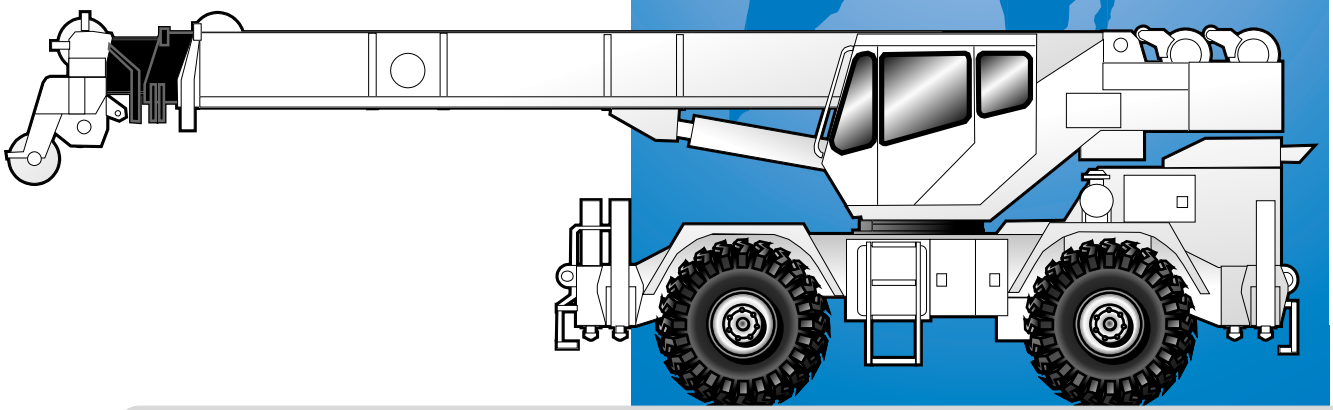
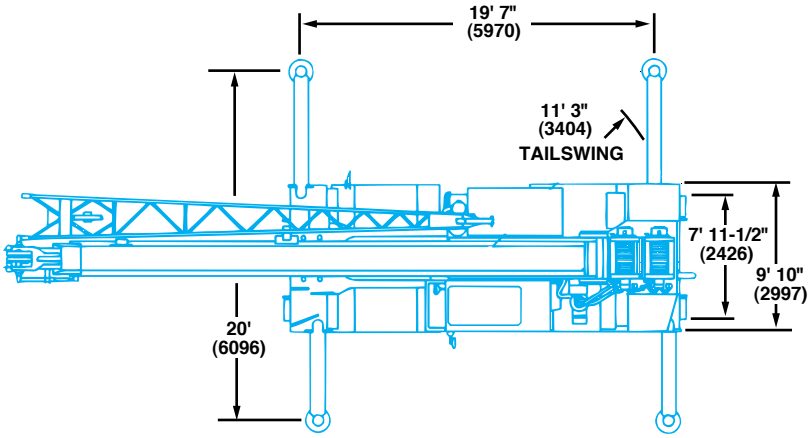
GROVE®
CRANE
A GROVE WORLDWIDE COMPANY

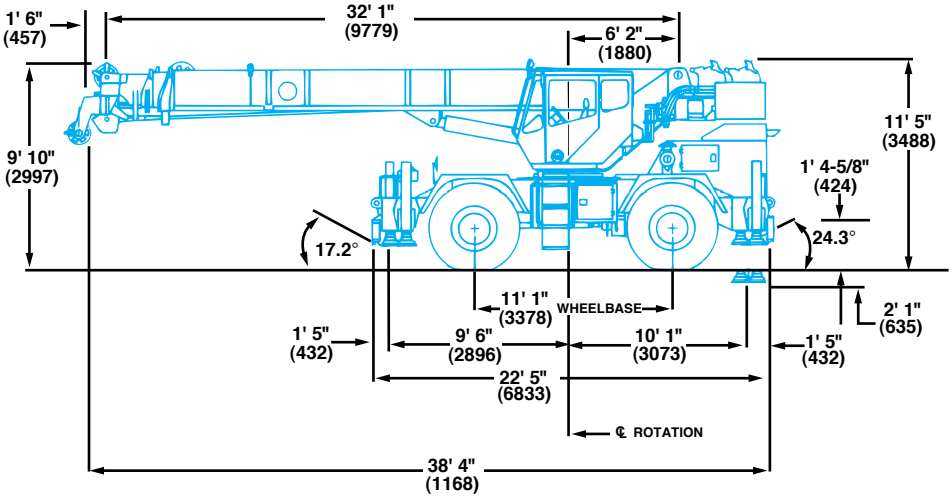
RT500DXL



Rough Terrain Hydraulic Crane

Dimensions





Note: ( ) Reference dimensions in mm

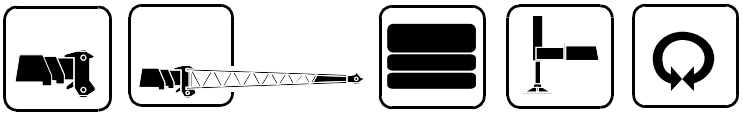
Turning Radius . . . . . 18' 1" (5516 mm)

Front Axle Load . . . . . 28,766 lbs. (13 048 kg)

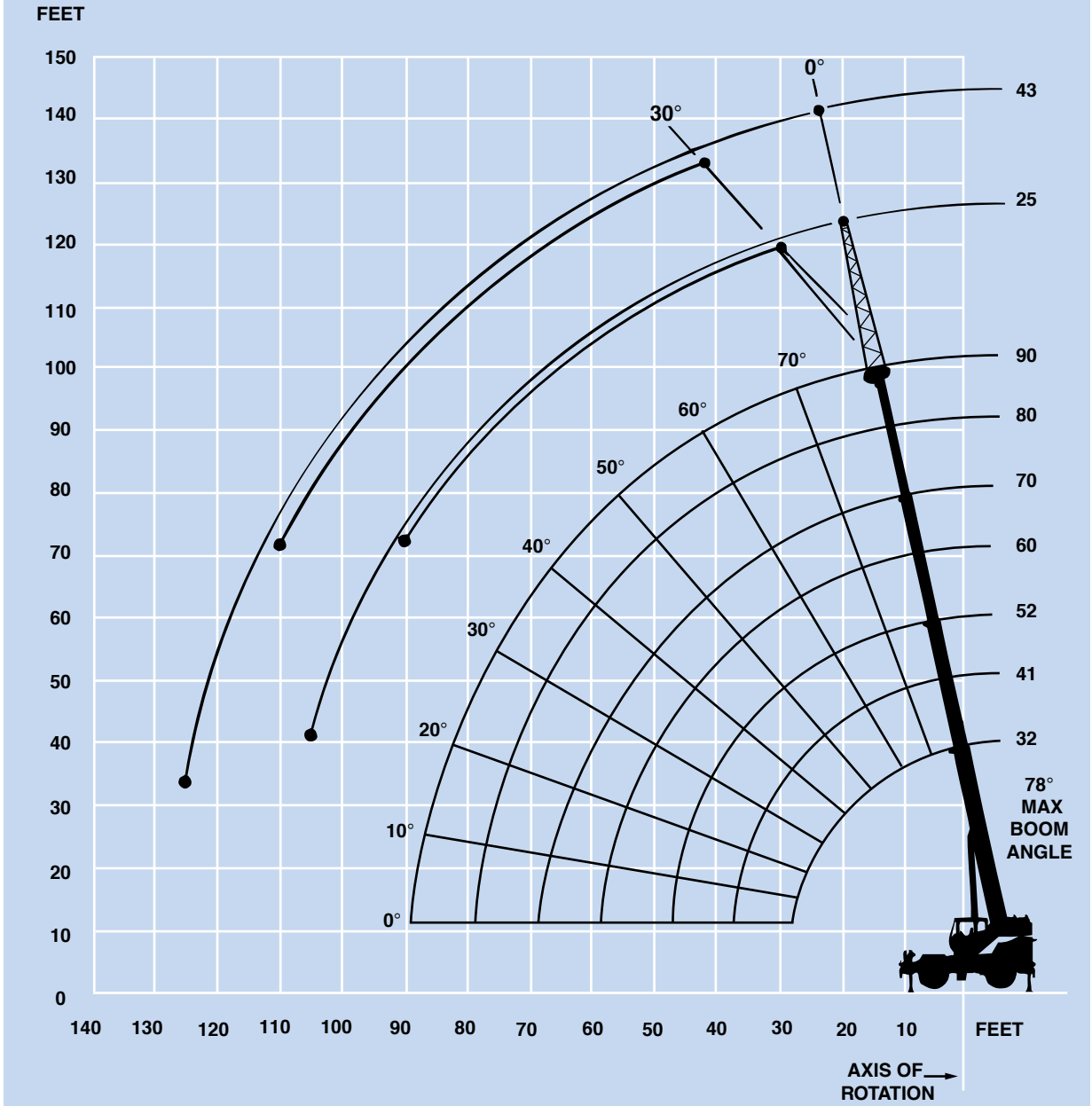
Rear Axle Load. . . . . 32,636 lbs. (14 804 kg)

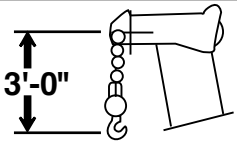
Gross Vehicle Weight . . . . . 61,402 lbs. (27 852 kg)

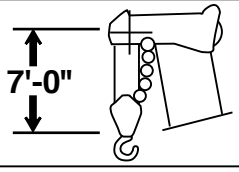
Working Range



32 - 90 ft. (9.8 - 27.4 m) | 25 - 43 ft. (7.6 -13 m) | 8,500 lbs. (3855 kg) | 360°







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

Superstructure specifications

Boom
32 ft. - 90 ft. (9.8 m - 27.4 m) four-section full power boom.
Maximum tip height: 98 ft. 8 in. (30.1 m).

Fixed Swingaway Extension
25 ft. (7.6 m) lattice swingaway extension.
Non-offsettable. Stows alongside base boom section.
Maximum tip height: 123 ft. (37.5 m).

*Optional Fixed Swingaway Extension
25 ft. (7.6 m) lattice swingaway extension. Offsettable at 0° and 30°. Stows alongside base boom section.
Maximum tip height: 123 ft. (37.5 m).

*Optional Telescopic Swingaway Extension
25 ft. - 43 ft. (7.6 m - 13 m) telescoping lattice swingaway extension. Offsettable at 0° or 30°. Stows alongside base boom section.
Maximum tip height: 141 ft. (42.9 m).

Boom Nose
Four steel sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve type boom nose. *Optional removable auxiliary boom nose with removable pin type rope guard.

Boom Elevation
One double acting hydraulic cylinder with integral holding valve provides elevation from -1° 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, length, radius, tip height, relative load moment, maximum permissible load and load indication and warning of impending two-block condition.

Cab
Full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest mounted hydraulic single-axis controllers. Dash panel incorporates gauges for engine functions. Other standard features include: hot water heater, cab circulating air fan, telescoping tilt wheel, sliding side and rear windows, opening skylight, skylight sunscreen, electric windshield wash/wipe, electric skylight wiper, fire extinguisher, seat belt and ashtray/cupholder.

Swing
Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released swing brake and plunger-type,1 position, mechanical house lock, operated from cab. 360° mechanical swing lock.
Maximum speed: 3 RPM.

Counterweight
8,500 lbs. (3855 kg) integral with superstructure.
910 lbs. (413 kg) slab in place of auxiliary hoist.

Hydraulic System
Five main gear pumps with a combined capacity of 172.4 GPM (652 LPM). Pump disconnect with engine jogging switch.
Maximum operating pressure: 3500 PSI (241 bar).

Three individual 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.

120 gallon (454 L) reservoir.

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

System pressure test ports with quick release type fittings for each circuit.

HOIST SPECIFICATIONS
Main and *Auxiliary Hoist
Planetary reduction with automatic spring applied multi-disc brake. Grooved drum. Electronic hoist drum rotation indicator, hoist drum cable followers and wire rope.

Maximum Single Line Pull:	10,591 lbs. (4804 kg)
Maximum Single Line Speed:	450 FPM (137 m/min)
Maximum Permissible Line Pull:	9,080 lbs. (4118 kg)
Rope Diameter:	5/8 in. (16 mm)
Rope Length:	450 ft. (137 m)
Maximum Rope Stowage:	534 ft. (163 m)

**Denotes optional equipment*

Carrier specifications

Chassis
Box section frame fabricated from high-strength, low alloy steel. Integral outrigger housings and front/rear towing and tie down lugs. Built-in hook block and headache ball stowage.

Outrigger System
Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position setting. All steel fabricated quick release type square outrigger floats, 16.5 in. (429 mm) in diameter.
Maximum outrigger pad load: 47,941 lbs. (21 746 kg).

Outrigger Controls
Controls and crane level indicator located in cab.

Engine
Cummins 6BT5.9 diesel, six cylinders, turbocharged, 145 bhp (108 kW) (Gross) @ 2,200 RPM.
Maximum torque: 400 ft. lbs. (542 Nm) @ 1,600 RPM.

*Optional Engine
Caterpillar 3116T diesel, six cylinders, turbocharged, 145 bhp (108 kW) (Gross) @ 2,200 RPM.
Maximum torque: 442 ft. lbs. (599 Nm) @ 1,450 RPM.

Fuel Tank Capacity
60 gallons (227 L)

Transmission
Full powershift with 8 forward and 4 reverse speeds. Rear axle disconnect for 4 x 2 travel.

Electrical System
Two 12 V - maintenance free batteries. 24 V starting and lighting. Battery disconnect switch and power slave receptacle (jump start aid).

Drive
4 x 4

Steering
Full 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 indicating gauge and automatic steering reversal.

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 hydraulic split circuit disc-type brakes operating on all wheels. Spring-applied, hydraulically released transmission-mounted parking brake.

Tires
20.5R25 Michelin radials.

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

Maximum Speed
24 MPH (39 kph)

Gradeability (Theoretical)
74% (Based on 61,402 lbs. [27 852 kg] GVW), 20.5R25 tires, pumps disengaged, 90 ft. (27.4 m) boom and 25 ft. (7.6 m) swingaway.

Miscellaneous Standard Equipment
Full width steel fenders, dual rear view mirrors, hook-block tiedown, electronic back-up alarm, headache ball stowage, tool box compartment, light package, front stowage well, tachometer, cold start aid (less canister), rear wheel position indicator, hot water heater, hoist mirrors, engine distress A/V warning system. Auxiliary hoist control valve arrangement (less hoist), 360° positive swing lock and automatic steering reversal.

*Optional Equipment
* Auxiliary hoist w/wire rope
* Boom mounted worklights
* 360° flashing light
* Cab spotlight
* Engine block heater
* Hookblocks (quick reeve type)
* Tow winch - front mounted -- maximum pull: 15,000 lbs. (6804 kg); maximum speed: 92 ft./min. (28 m/min)
* Spare wheel assembly
* Tool kit
* Pintle hook front/rear
* High Speed Glide system
* Air conditioning
* Dual axis joystock controller
* LMI light bar (internal or external)
* Emergency steer pump
* Automatic steering control system
* Headache ball
* Automatic grease system for turntable bearing
* 3rd wrap indicator (main or auxiliary)
* Worklight, hoist mounted
* Aluminum fender decking
* Cross axle differential locks

**Denotes optional equipment*

32 - 90 ft.
(9.8 - 27.4 m)

8,500 lbs.
(3855 kg)

100%

360°

(Pounds)

(Feet)	32	41	*52	60	70	80	90	25 ft. Ext. & 90 ft. 115
10	60,000 (64.5)	58,600 (70.5)	53,400 (75.5)	30,000 (77)				
12	55,850 (60)	52,200 (67.5)	47,350 (73)	30,000 (75.5)				
15	46,150 (53.5)	45,400 (63)	40,350 (69.5)	30,000 (72.5)	30,000 (75.5)	@30,100 (78)	@19,050 (78)	
20	33,700 (40)	33,000 (54.5)	32,450 (63.5)	30,000 (67.5)	27,000 (71)	25,150 (74)	19,050 (76)	
25	25,900 (17.5)	25,150 (44.5)	24,600 (56.5)	24,000 (62)	21,900 (66.5)	20,600 (70)	19,050 (72.5)	@12,000 (78)
30		19,800 (32)	19,250 (49.5)	19,800 (56)	18,250 (62)	17,400 (66)	16,750 (69)	11,700 (75)
35			15,450 (41)	16,000 (50)	15,600 (57)	14,850 (62)	14,350 (65.5)	11,450 (72.5)
40			12,650 (31)	13,150 (43)	13,400 (52)	12,800 (58)	12,500 (62)	10,520 (69.5)
45			10,450 (14.5)	10,900 (35)	11,450 (46)	11,150 (53.5)	10,950 (58.5)	9,590 (67)
50				8,890 (24)	9,385 (40)	9,665 (48.5)	9,710 (54.5)	8,990 (64)
55					7,740 (32)	8,010 (43)	8,295 (50)	8,330 (61)
60					6,420 (22)	6,700 (37)	6,975 (45.5)	7,520 (58)
65						5,620 (30)	5,890 (40.5)	6,510 (55)
70						4,750 (21)	4,990 (35)	5,650 (52)
75							4,230 (28.5)	4,900 (48.5)
80							3,580 (20)	4,250 (44.5)
85								3,670 (41)
90								3,160 (36.5)
95								2,710 (31.5)
100								2,300 (26)
105								1,930 (18)
Minimum boom angle (deg.) for indicated length (no load)							0	0
Maximum boom length (ft.) at 0 degree boom angle (no load)							90	115

NOTE: ( ) Boom angles are in degrees

*52 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

@Capacity is based upon maximum obtainable boom angle.

Boom Angle	32	41	*52	60	70	80	90	
0°	25,000 (25.7)	16,100 (34.8)	10,050 (45.9)	7,640 (53.8)	5,580 (63.8)	4,170 (73.8)	3,140 (83.8)	

A6-829-013090B

32 - 90 ft.
(9.8 - 27.4 m)

8,500 lbs.
(3855 kg)

50%

360°

(Pounds)

(Feet)	32	41	*52	60	70	80	90	25 ft. Ext. & 90 ft. 115
10	58,000 (64.5)	57,500 (70.5)	53,400 (75.5)	30,000 (77)				
12	50,850 (60)	50,350 (67.5)	47,350 (73)	30,000 (75.5)				
15	42,700 (53.5)	42,150 (63)	40,350 (69.5)	30,000 (72.5)	30,000 (75.5)	@30,100 (78)	@19,050 (78)	
20	31,650 (40)	30,050 (54.5)	27,800 (63.5)	27,550 (67.5)	27,000 (71)	25,150 (74)	19,050 (76)	
25	21,050 (17.5)	20,700 (44.5)	19,700 (56.5)	19,800 (62)	19,750 (66.5)	19,550 (70)	19,050 (72.5)	@12,000 (78)
30		14,850 (32)	14,500 (49.5)	14,950 (56)	15,050 (62)	15,050 (66)	15,000 (69)	11,700 (75)
35			10,800 (41)	11,300 (50)	11,850 (57)	11,950 (62)	11,950 (65.5)	11,450 (72.5)
40			8,230 (31)	8,710 (43)	9,330 (52)	9,690 (58)	9,760 (62)	9,850 (69.5)
45			6,320 (14.5)	6,790 (35)	7,380 (46)	7,750 (53.5)	8,050 (58.5)	8,220 (67)
50				5,360 (24)	5,890 (40)	6,250 (48.5)	6,600 (54.5)	6,920 (64)
55					4,720 (32)	5,060 (43)	5,400 (50)	5,860 (61)
60					3,760 (22)	4,090 (37)	4,420 (45.5)	4,980 (58)
65						3,290 (30)	3,610 (40.5)	4,170 (55)
70						2,640 (21)	2,930 (35)	3,460 (52)
75							2,350 (28.5)	2,860 (48.5)
80							1,850 (20)	2,330 (44.5)
85								1,880 (41)
90								1,480 (36.5)
95								1,120 (31.5)
Minimum boom angle (deg.) for indicated length (no load)							0	18
Maximum boom length (ft.) at 0 degree boom angle (no load)							90	105

NOTE: ( ) Boom angles are in degrees
*52 ft. boom length is with inner-mid extended and outer-mid & fly retracted.
@Capacity is based upon maximum obtainable boom angle.

Boom Angle	32	41	*52	60	70	80	90
0°	20,000 (25.7)	11,150 (34.8)	6,030 (45.9)	4,480 (53.8)	3,140 (63.8)	2,210 (73.8)	1,510 (83.8)

NOTE: ( ) Reference radii in feet.

A6-829-013537A

32 - 90 ft.
(9.8 - 27.4 m)

8,500 lbs.
(3855 kg)

0%

360°

(Pounds)

(Feet)	32	41	*52	60	70	80	90
10	44,500 (64.5)	40,250 (70.5)	36,350 (75.5)	30,000 (77)			
12	33,900 (60)	31,450 (67.5)	28,600 (73)	28,050 (75.5)			
15	23,150 (53.5)	22,900 (63)	21,150 (69.5)	21,000 (72.5)	20,650 (75.5)	@20,200 (78)	@19,050 (78)
20	14,300 (40)	14,000 (54.5)	13,700 (63.5)	14,050 (67.5)	14,050 (71)	14,000 (74)	13,800 (76)
25	9,710 (17.5)	9,430 (44.5)	9,090 (56.5)	9,440 (62)	9,880 (66.5)	10,200 (70)	10,200 (72.5)
30		6,540 (32)	6,250 (49.5)	6,590 (56)	7,000 (62)	7,380 (66)	7,750 (69)
35			4,340 (41)	4,660 (50)	5,060 (57)	5,390 (62)	5,720 (65.5)
40			2,960 (31)	3,270 (43)	3,650 (52)	3,950 (58)	4,260 (62)
45			1,920 (14.5)	2,220 (35)	2,590 (46)	2,870 (53.5)	3,150 (58.5)
50				1,420 (24)	1,770 (40)	2,030 (48.5)	2,290 (54.5)
55					1,100 (32)	1,350 (43)	1,590 (50)
60							1,020 (45.5)
Minimum boom angle (deg.) for indicated length (no load)							37.5
Maximum boom length (ft.) at 0 degree boom angle (no load)							60

NOTE: ( ) Boom angles are in degrees

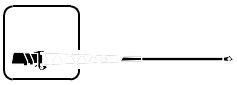
*52 ft. boom length is with inner-mid extended and outer-mid & fly retracted.

@Capacity is based upon maximum obtainable boom angle.

Boom Angle	32	41	*52
0°	9,220 (25.7)	4,630 (34.8)	1,760 (45.9)

NOTE: ( ) Reference radii in feet.

A6-829-013538A



25 - 43 ft.
(7.6 - 13 m)

8,500 lbs.
(3855 kg)

100%

360°

(Pounds)

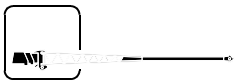
(Feet)	**25 ft. LENGTH 0° OFFSET	**25 ft. LENGTH 30° OFFSET	43 ft. LENGTH 0° OFFSET	43 ft. LENGTH 30° OFFSET
25	12,000 (77.5)			
30	11,700 (74.5)		*6,520 (78)	
35	11,450 (72)	5,300 (76)	5,800 (75.5)	
40	10,500 (69.5)	5,000 (73.5)	5,400 (73)	
45	9,590 (66.5)	4,800 (70.5)	4,900 (70.5)	
50	8,990 (64)	4,620 (68)	4,550 (68.5)	2,610 (75.5)
55	8,330 (61)	4,470 (65)	4,260 (66)	2,520 (73)
60	7,240 (58)	4,360 (62)	3,940 (63.5)	2,410 (70.5)
65	6,120 (55)	4,240 (58.5)	3,740 (61)	2,320 (68)
70	5,190 (51.5)	4,140 (55)	3,550 (58.5)	2,260 (65.5)
75	4,400 (48)	4,080 (51.5)	3,360 (56)	2,200 (62.5)
80	3,720 (44.5)	3,720 (48)	3,200 (53)	2,140 (60)
85	3,140 (40.5)	3,140 (44)	3,050 (50)	2,080 (57)
90	2,630 (36.5)	2,630 (39.5)	2,930 (47)	2,040 (53.5)
95	2,170 (31.5)		2,820 (44)	2,000 (50)
100	1,770 (25.5)		2,720 (40.5)	1,980 (46.5)
105	1,410 (18)		2,370 (36.5)	1,970 (42.5)
110			2,000 (32.5)	1,960 (38)
115			1,680 (27.5)	
120			1,380 (22)	
125			1,110 (13)	

NOTE: ( ) Boom angles are in degrees.

***This capacity is based upon maximum boom angle.**

****25 ft. capacities are also applicable to fixed offsettable extensions.**
However the LMI codes will change for 0° and 30° offset respectively.

A6-829-013091



25 - 43 ft.
(7.6 - 13 m)

8,500 lbs.
(3855 kg)

50%

360°

(Pounds)

(Feet)	**25 ft. LENGTH 0° OFFSET	**25 ft. LENGTH 30° OFFSET	43 ft. LENGTH 0° OFFSET	43 ft. LENGTH 30° OFFSET
25	12,000 (77.5)			
30	11,700 (74.5)		*6,520 (78)	
35	11,300 (72)	5,300 (76)	5,800 (75.5)	
40	9,220 (69.5)	5,000 (73.5)	5,400 (73)	
45	7,600 (66.5)	4,800 (70.5)	4,900 (70.5)	
50	6,300 (64)	4,620 (68)	4,550 (68.5)	2,610 (75.5)
55	5,240 (61)	4,470 (65)	4,260 (66)	2,520 (73)
60	4,360 (58)	4,360 (62)	3,940 (63.5)	2,410 (70.5)
65	3,620 (55)	3,620 (58.5)	3,740 (61)	2,320 (68)
70	2,950 (51.5)	2,950 (55)	3,550 (58.5)	2,260 (65.5)
75	2,340 (48)	2,340 (51.5)	3,080 (56)	2,200 (62.5)
80	1,810 (44.5)	1,810 (48)	2,610 (53)	2,140 (60)
85	1,350 (40.5)	1,350 (44)	2,190 (50)	2,080 (57)
90			1,820 (47)	1,820 (53.5)
95			1,450 (44)	1,450 (50)
100			1,120 (40.5)	1,120 (46.5)

NOTE: ( ) Boom angles are in degrees.

*This capacity is based upon maximum boom angle.

**25 ft. capacities are also applicable to fixed offsettable extensions. However the LMI codes will change for 0° and 30° offset respectively.

A6-829-013539

32 - 90 ft.
(9.8 - 27.4 m)

8,500 lbs.
(3855 kg)

Stationary
20.5R25

Defined Arc
Over Front

(Pounds)

(Feet)	32	41	*52	60	70	80	90
10	36,000 (64.5)	32,200 (70.5)	27,650 (75.5)				
12	30,800 (60)	27,950 (67.5)	24,600 (73)				
15	25,100 (53.5)	23,200 (63)	20,900 (69.5)	20,900 (72.5)	20,900 (75.5)		
20	18,900 (40)	17,650 (54.5)	16,200 (63.5)	16,200 (67.5)	16,200 (71)		
25	13,000 (17.5)	12,650 (44.5)	12,150 (56.5)	12,750 (62)	12,750 (66.5)	12,750 (70)	
30		9,000 (32)	8,630 (49.5)	9,140 (56)	9,790 (62)	10,100 (66)	10,100 (69)
35			6,260 (41)	6,730 (50)	7,320 (57)	7,810 (62)	8,010 (65.5)
40			4,570 (31)	5,010 (43)	5,570 (52)	6,000 (58)	6,310 (62)
45			3,310 (14.5)	3,730 (35)	4,250 (46)	4,650 (53.5)	4,900 (58.5)
50				2,760 (24)	3,230 (40)	3,600 (48.5)	3,970 (54.5)
55					2,410 (32)	2,760 (43)	3,110 (50)
60					1,750 (22)	2,070 (37)	2,400 (45.5)
65						1,500 (30)	1,810 (40.5)
70						1,030 (21)	1,320 (35)

NOTE: ( ) Boom angles are in degrees

*52 ft. boom length is with inner-mid extended and outer-mid and fly retracted.

A6-829-013081

32 - 90 ft.
(9.8 - 27.4 m)

8,500 lbs.
(3855 kg)

Stationary
20.5R25

360°

(Pounds)

(Feet)	32	41	*52	60	70	80	90
10	30,300 (64.5)	29,100 (70.5)	27,650 (75.5)				
12	25,900 (60)	25,000 (67.5)	24,000 (73)				
15	19,600 (53.5)	19,200 (63)	18,650 (69.5)	18,650 (72.5)	18,650 (75.5)		
20	12,350 (40)	11,900 (54.5)	11,300 (63.5)	11,900 (67.5)	12,600 (71)		
25	8,580 (17.5)	8,060 (44.5)	7,420 (56.5)	7,900 (62)	8,500 (66.5)	8,830 (70)	
30		5,550 (32)	5,010 (49.5)	5,440 (56)	5,980 (62)	6,280 (66)	6,420 (69)
35			3,380 (41)	3,770 (50)	4,270 (57)	4,460 (62)	4,460 (65.5)
40			2,180 (31)	2,480 (43)	2,950 (52)	2,950 (58)	2,950 (62)
45				1,560 (35)	1,760 (46)	1,760 (53.5)	1,760 (58.5)

NOTE: ( ) Boom angles are in degrees

*52 ft. boom length is with inner-mid extended and outer-mid and fly retracted.

A6-829-013082

32 - 90 ft.
(9.8 - 27.4 m)

8,500 lbs.
(3855 kg)

Pick & Carry
Up to 2.5 MPH
20.5R25

Boom Centered Over Front

(Pounds)

(Feet)	32	41	*52	60	70	80	90
10	33,600 (64.5)						
12	32,100 (60)						
15	26,500 (53.5)	26,150 (63)					
20	19,100 (40)	18,700 (54.5)	18,150 (63.5)	18,850 (67.5)			
25	13,000 (17.5)	12,650 (44.5)	12,150 (56.5)	12,750 (62)	13,500 (66.5)	14,150 (70)	
30		6,440 (32)	6,110 (49.5)	6,580 (56)	7,180 (62)	7,690 (66)	8,210 (69)
35			4,470 (41)	4,920 (50)	5,500 (57)	5,980 (62)	6,450 (65.5)
40			3,190 (31)	3,630 (43)	4,190 (52)	4,630 (58)	5,080 (62)
45			2,160 (14.5)	2,590 (35)	3,130 (46)	3,550 (53.5)	3,970 (58.5)
50				1,770 (24)	2,270 (40)	2,670 (48.5)	3,060 (54.5)
55					1,550 (32)	1,930 (43)	2,300 (50)
60						1,300 (37)	1,660 (45.5)
65							1,110 (40.5)

NOTE: ( ) Boom angles are in degrees
*52 ft. boom length is with inner-mid extended and outer-mid and fly retracted.

A6-829-013083

25 FT. FIXED LENGTH BOOM EXTENSION

*Stowed -	243 lbs.
*Erected -	1,526 lbs.

25 FT. OFFSETTABLE BOOM EXTENSION

*Stowed -	430 lbs.
*Erected -	3,219 lbs.

25 FT. - 43 FT. TELE. BOOM EXTENSION

*Stowed -	593 lbs.
*Erected (Retracted) -	3,953 lbs.
*Erected (Extended) -	5,092 lbs.

*Reduction of main boom capacities

AUXILIARY BOOM HEAD	160 lbs.
HOOKBLOCKS and HEADACHE BALLS:	
30 Ton, 4 Sheave	600 lbs.+
30 Ton, 4 Sheave w/cheekplates	723 lbs.+
15 Ton, 2 Sheave	378 lbs.+
5 Ton Headache Ball	172 lbs.+

+Refer to rating plate for actual weight.

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

Rated Lifting Capacities

IMPORTANT NOTES:

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

1. All rated loads have been tested to and meet minimum requirements of SAE J1063 NOV93 - Cantilevered Boom Crane Structures - Method of Test, and do not exceed 85% of the tipping load on outriggers full extended and 50% extended, and 75% of the tipping load on outriggers 0% extended (fully retracted) and rubber, as determined by SAE J765 OCT90 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. Defined Arc ±6° on either side of longitudinal centerline of machine.

4. Capacities appearing above the bold line are based on structural strength. Tipping should never be used to indicate capacity limitation.

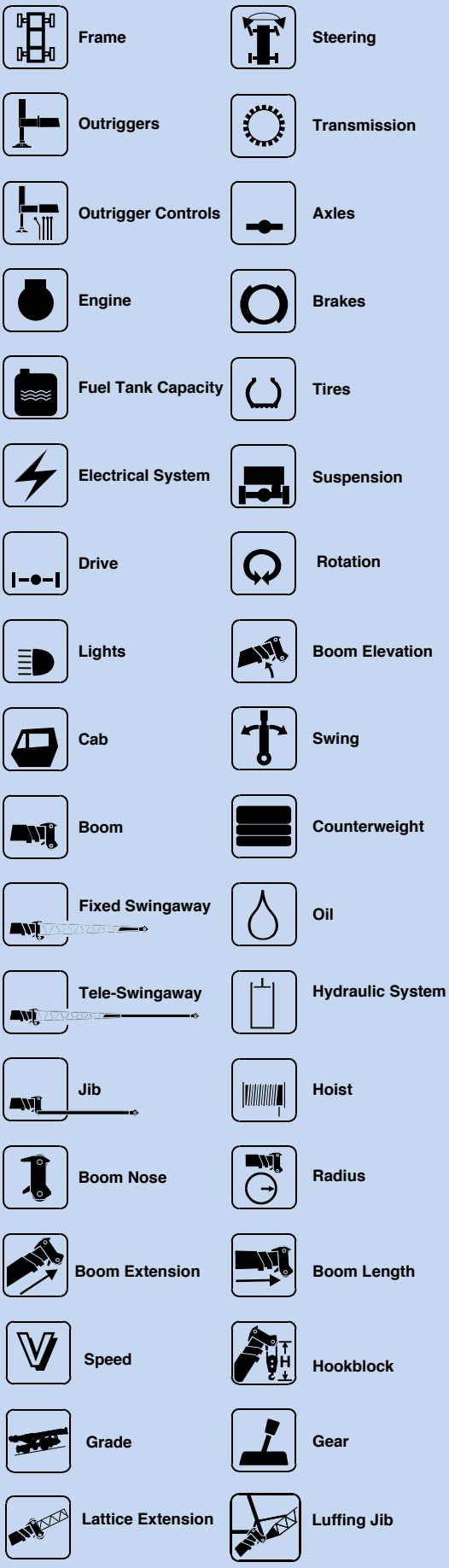
5. All capacities are for crane on firm, level surface. It may be necessary to have structural supports under the outrigger floats or tires to spread the load to a larger bearing surface.

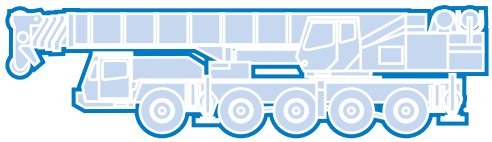
6. When either boom length or radius or both are between values listed, the smallest load shown at either the next larger radius or boom length shall be used.

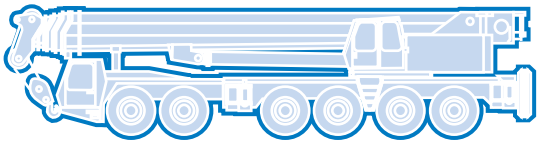
7. Tires shall be inflated to the recommended pressure before lifting on rubber.

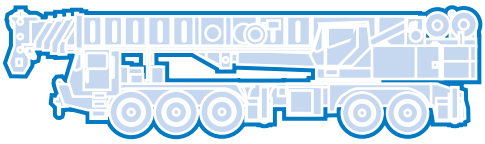
8. For outrigger operation, ALL outriggers shall be properly extended with tires raised free of ground before raising the boom or lifting loads.

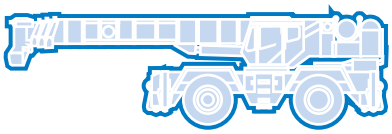
Symbols Glossary

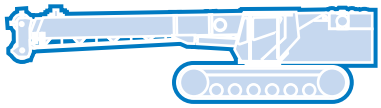












GROVE worldwide

Grove Worldwide – World Headquarters
Grove North America
1565 Buchanan Trail East
P.O. Box 21
Shady Grove, Pennsylvania 17256, U.S.A.
Tel: [Int + 1] (717) 597-8121
Fax: [Int + 1] (717) 597-4062
Western Hemisphere, Asia/Pacific

Grove Europe Limited*
Sunderland SR4 6TT, England
Tel: [Int + 44] 191 565-6281
Fax: [Int + 44] 191 564-0442
Europe, Africa, Middle East

Grove Europe Limited*
P.O. Box No. 268
4A Kimber Road
Abingdon, Oxfordshire, 0X141SG
Tel: [Int + 44] 1235 55-3184
Fax: [Int + 44] 1235 55-3218

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

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

Grove France S.A.
16, chaussée Jules-César, 95520 OSNY
B.P. 203, 95523 CERGY PONTOISE CEDEX
France
Tel: [Int + 33] (1) 30313150
Int: [Int + 33] (1) 30386085

Grove Asia/Pacific - Regional Office
171 Chin Swee Road
#06-01 San Centre
Singapore 0316
Tel: [Int + 65] 536-6112
Fax: [Int + 65] 536-6119
Asia/Pacific, Near East

Grove China - Representative Office
Beijing Hotel Room 6074
No. 33 East Chang An Avenue
Beijing, 100004, China
Tel: [Int + 86] (10) 513-7766
Fax: [Int + 86] (10) 513-7307

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

Europe, Africa, Middle East
Sunderland SR4 6TT, England
Tel: [Int + 44] 191 565-6281
Parts Fax: [Int + 44] 191 510-9242
Service Fax: [Int + 44] 191 510-9560

*Grove Europe Limited, Registered in England, Number 1845128, Registered office, Crown Works, Pallion, Sunderland, Tyne & Wear, England SR4 6TT

Distributed By:

Form No.: RT500DXL **Part No.: 3-858** **597-8M** **Printed in U.S.A.**