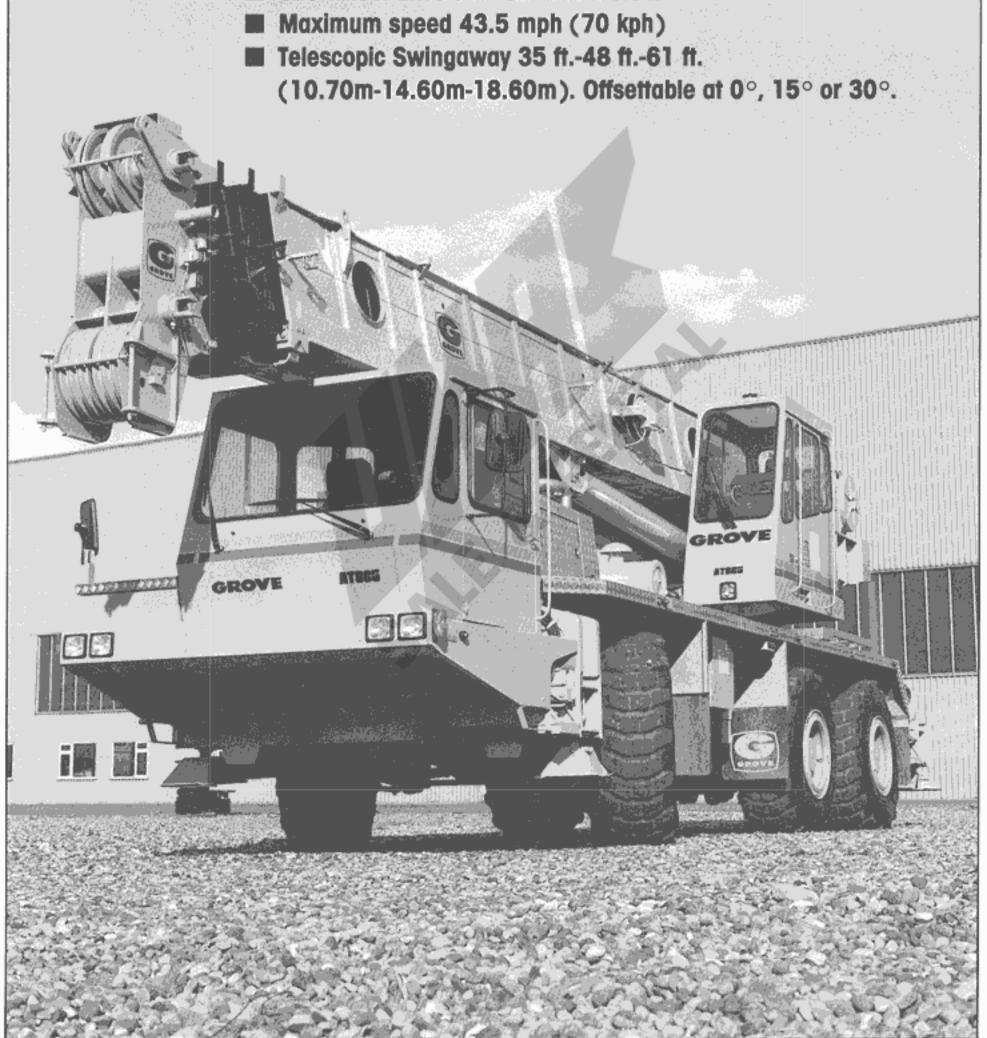




■ 6x6 wheel drive with six wheel steer



Superstructure specifications

Boom	40 ft. to 125 ft. (12.1m - 38m) four-section Trapezoidal† boom, including remote controlled aerial pinned section. Telescopic sections slide on adjustable and replaceable Nylatron pads. Maximum Tip Height: 135 ft. (41m).	HYDRAULIC SYSTEM Pumps	•	M). Maximum	ed capacity 165 pressure 3,000 sconnect for road	
Optional* Boom	40 ft. to 115 ft. (12.1m - 35m) four-section Trapezoidal† boom, including remote controlled aerial pinned section. Telescopic sections slide on adjustable and replaceable Nylatron pads. Maximum Tip Height: 125 ft. (38m).	Valves	Precision four way double acting pilot of control valves, 4 individual valve banks simultaneous control of multiple crane functions.			
•	35 ft. to 48 ft. or 61 ft. (10.7m to 14.6m or 18.6m) swingaway boom extension with a	Filter	Pressure line type and service indi- rated cartridge.		y-pass protection able 10 micron	
	rectangular roller-mounted section extending from within the 35 ft. (10.6m) lattice extension. Offsettable at 2°, 15° or 30°. Stows alongside boom when not in use. Maximum Tip Height:	Reservoir	_ ,	-	external oil level	
	194 ft. (59m) with 125 ft. (38m) boom.	Oil Cooler	Remote mounte		•	
-	35 ft. (10.6m) lattice swingaway boom extension, offsettable at 2°, 15° or 30°. Stows alongside boom when not in use. Maximum Tip Height: 168 ft. (50m).	Pressure Check Panel	System pressure release type fittir	h quick		
Boom Nose	Six sheaves, mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Optional *auxiliary boom nose for single line lifting.	HOIST SPECIFICATION	Power up and down, equal speed, planetary reduction with integral automatic springapplied, multi-disc brake. Electronic hoist drum rotation indicator.			
Boom Elevation	Twin double-acting hydraulic cylinders with integral holding valves provide elevation for -4° to 80°.		Main Hoist High Range	Low Range	Auxiliary Hoist Single Range	
Load Moment & Anti-two Block System	Audio-visual warning system with automotion cut-out, electronic boom angle, length and relative load moment indication.	Maximum Single Line S Bottom layer Intermediate	Speed 466 FPM (142 m/min) 502 FPM	233 FPM (71 m/min) 250 FPM	348 FPM (106 m/min) 371 FPM	
Cab	Full vision, all steel fabricated with accoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest mounted	layer Top layer	(153 m/min) 538 FPM (164 m/min)	(76 m/min) 269 FPM	(113 m/min) 394 FPM (120 m/min)	
	hydraulic joystick controls. Dash panel incorporates gauges for all engine functions. Complete driving controls. Other standard features include: sliding side and rear windows, electric windshield wash-wipe, electric skylight wiper, diesel heater, swing horn, and fire extinguisher.	Maximum Single Line F Bottom layer Intermediate layer Top	8,232 lbs. (3,742 kg) 7,638 lbs. (3,472 kg) 7,126 lbs.	16,465 lbs. (7,484 kg) 15,279 lbs. (6,945 kg) 14,252 lbs.	(3,910 kg)	
Swing	Ball bearing swing circle with 360° continuous rotation. Planetary gearbox with free swing and	layer	(3,239 kg)	(6,478 kg)	(3,690 kg)	
	foot applied multi-disc brake. Spring-applied hydraulically released park brake. Plunger-type	Maximum Permissible Line Pull	11,465 lbs. (5,200 kg)		6,835 lbs. (3,100 kg)	
	two position mechanical house lock operated from cab. Maximum speed: 1.9 RPM.		666 ft. x 3/4 in. (203m x 19mm))	682 ft. x 9/16 in. (208m x 14mm)	
Counterweight	Fixed counterweight, with section stowable on crane carrier, giving a total of 6,614 lb. (3,000	Standard Rope Supplied	590 ft. x 3/4 in. (180m x 19mm))	574 ft. x 9/16 in. (175m x 14mm)	
	kg). Additional 11,023 lb. (5,000 kg) counterweight to give a total of 17,637 lb. (8,000 kg).		†Patented Grove feature *Denotes optional equip imported into North Am	or patent pending. ment, some of which		

Carrier specifications

Frame	High strength alloy steel all well design with integral outrigger h		Suspension	Integral hydrogas type all-round. Hydraulic lockout for 'on rubber' crane operation.				
	incorporating towing/tie down (2.75m)*.	_	Lights	Full lighting package including turn indicators, head, tail, brake and hazard warning lights.				
Outrigger System	Hydraulic two stage with 8 ft. 2 (2.5m) chassis beam and jack integral holding valves. Quick rigger floats.	outriggers with	Çab	Two third width design, all steel fabricated with accoustical lining and tinted safety glass throughout. Deluxe fabric covered fully adjustable seat. Complete driving controls and engine				
Outrigger Controls	Located in the superstructure considers of the carrier frame, requirements operation. Crane level indicator each set of controls.	ring two-handed		instrumentation including tachometer, speed ometer, voltmeter, water temp. oil pressure, transmission temp., fuel level, air pressure gauge with A/V warning and engine high temp. low oil pressure A/V warning. Other standard				
Engine	Deutz BF8L513, eight cylinder air cooled diesel - 12.8 liters, 3 kw) (Gross) @ 2,300 RPM. M 863 ft. lbs. (1,170Nm) @ 1,5	320 bhp (235 Iaximum torque		items include hot water heater/ defroster, elect- ric windshield wash/wipe, fire extinguisher, seat belt and door and window locks.				
Eugl Tenk	96 gallons (365 liters)		Maximum Speed	43.5 MPH (70 kph)				
Fuel Tank Capacity			Gross Vehicle Weight & Axle	BASIC STANDARD MACHINE Axie 1: 26,455 lbs. (12,000 kg)				
Electrical System	24 volt (including starting).		Logds	Axie 2: 26,455 lbs. (12,000 kg) Axie 3: 26,455 lbs. (12,000 kg)				
Drive	6 x 6.			GVW: 79,365 lbs. (36,000 kg)				
Steering	Front: Mechanical with he assist controlled by Rear: Full hydraulic hand (from upper cab or infinite variations or modes - front only, and coordinated. It locked for highway Automatic steering reversal systems correct control regardless of surposition.	steering wheel. I lever controlled hly), provides of 4 main steering rear only, crab dechanically travel. tem to ensure	Miscellaneous Standard Equipment	Full width fenders, dual rear view mirrors, hookblock tiedown sling, electronic back-up alarm, light package, sling/tool box, pump disconnect, engine distress A/V warning. *Patented Grove feature or patent pending. *Denotes optional equipment, some of which may not normally be imported into North America.				
Transmission	Remote mounted powershift tra six forward and three reverse s torque converter with automati highway travel.	peeds. Integral						
Axles	Front: Drive-steer with diffunctory reduction Rear: Drive-steer with diffunctory reduction Rear: Drive-steer with diffunctory reduction planetary reduction All axles equipped with cross-colocks.	n hubs. Terential and n hubs. Terential and n hubs.						
Brakes	Dual-line air system operating Spring-applied air-released pa on axles two and three. Engine	rk brake acting						
	20.5 x 25 on-off highway rad							

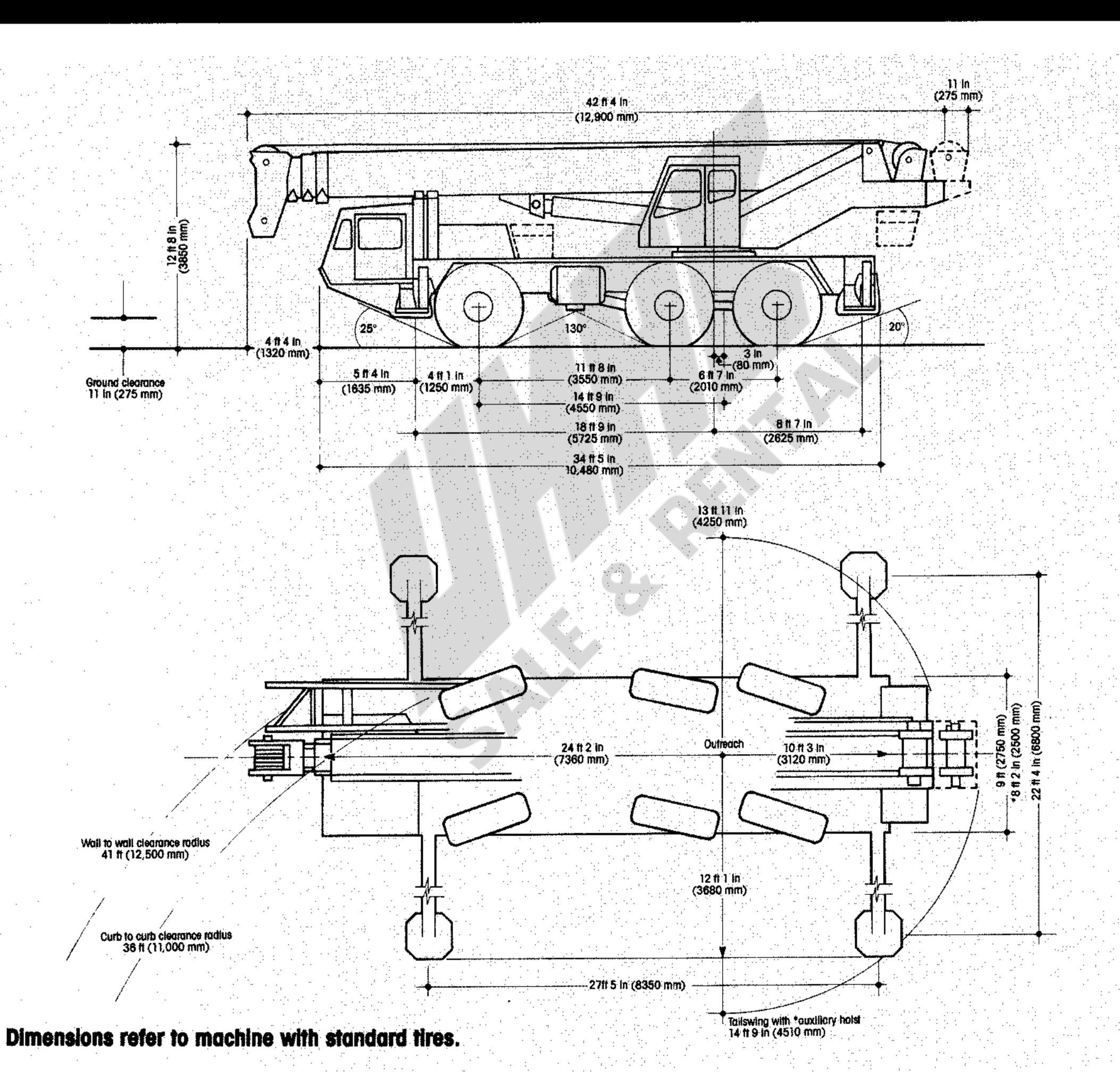
 16.00×25 on-off highway radials.

14.00 x 24 on-off highway radials.

Optional*

Tires

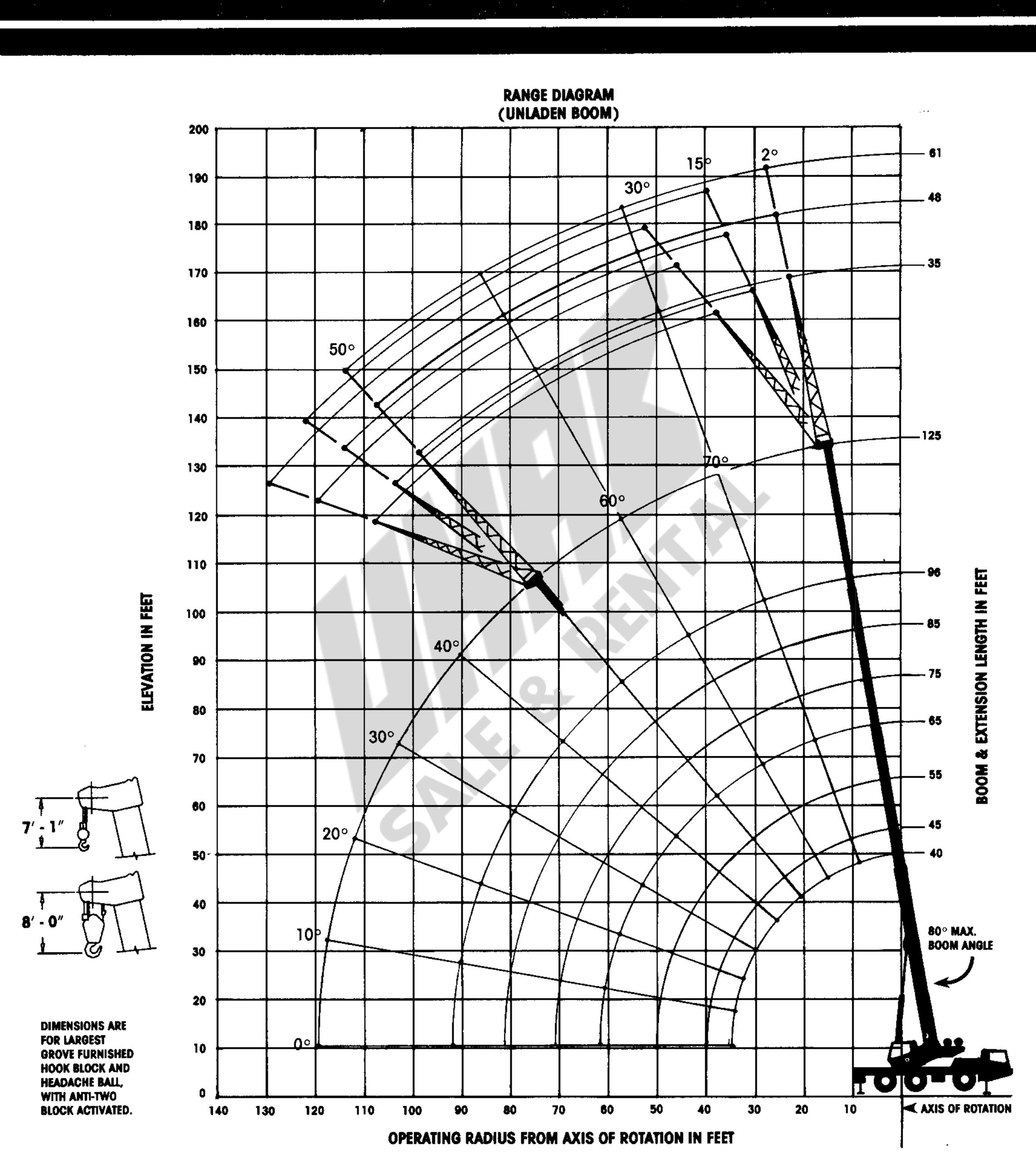
Dimensions





AT865

All terrain hydraulic crane/40 ft.-125 ft. full power boom



85% OF TIPPING - ON OUTRIGGERS 75% OF TIPPING - ON RUBBER

RATED LIFTING CAPACITIES IN POUNDS

CAPACITIES FOR 17,600 LBS. COUNTERWEIGHT

35 ft. Fixed Extension (On Outriggers - 360°)

Radius

in

Feet

30

40

50

55

60

65

70

90

100

68.0

66.0

63.5

59.5

55.0

50.0

9,750

8,900

8,000

6,900

5,900

4,400

35'0" Fixed Extension 30° Offset 2° Offset 15° Offset Ang Ang Ang Load Load Load 16,500 80.0 15,650 79.5 11,650 78.5 78.0 14,000 11,100 76.0 10,450 12,400 76.0 79,0 8,500 74.0 11,400 74.0 9,950 77.0 7,950 72.0 70.0 10,600 72.0 9,400 75.0 7,450

8,800

8,200

7,650

6,450

5,250

4,100

73.0

71.0

69.0

64.5

59.5

54.0

7,100

6,750

6,400

5,750

4,800

3,500

On Outriggers - 360°

Radius		Main B	oom Lengtl	ns (4th Sect	ion Fully Re	tracted)		4th Sec
in Feet	40′0″	45′0″	55′0″	65′0″	75′0″	85′0″	96′3″	Fully Exten'd 125'0"
10	130,000	90,500	87,000					
12	115,000	90,500	83,000	73,000	60,000			
15	94,000	90,000	76,000	65,500	58,000	48,500		
20	70,000	70,000	65,500	54,500	47,500	41,500	33,500	<u> </u>
25	56,500	56,600	56,700	46,500	41,500	37,000	32,500	24,250
30	41,500	41,600	41,700	39,400	36,200	34,000	30,500	23,650
35		31,500	31,600	31,700	31,800	29,500	25,500	19,800
40		4	25,000	25,100	25,100	25,200	24,300	17,650
50				16,400	16,450	16,500	16,600	14,250
60					11,200	11,250	11,300	11,300
70						7,600	7,700	8,950
80							5,000	6,800
90								4,800
100								3,150

On Rubber

70.0

68.0

66.5

62.0

58.0

53.0

Static	
	3 МРН
IMPH	3 MIPH
39,000	26,400
30,200	23,500
24,800	19,700
16,100	15,000
10,500	10,500
6,950	6,950
4,400	4,400
	1 MPH 39,000 30,200 24,800 16,100 10,500 6,950

35 ft. to 61 ft. Telescopic Swingaway (On Outriggers - 360°)

							35′0	o" to 61'0'	Telesco	pic Swinge	JWOY							
Radlus	s 35′0″						48′0″						61′0″					
in Foot	2°	Offset	15°	Offset	30°	Offset	2 °	Offset	15°	Offset	30°	Offset	2 ° (Offset	15°	Offset	30°	Offset
Feet	Ang	Load	Αng	Load	Ang	Load	Ang	Load	Ang	Load	Ang	Load	Ang	Load	Ang	Load	Ang	Load
30	80.0	16,500					••	10,800						:				
35	78.0	15,650	79.5	11,650			80.0	9,600					••	8,000				
40	76.0	14,000	78.0	11,100			78.5	9,100	••	7,850	_		80.0	7,900				
45	74.0	12,400	76.0	10,450	79.0	8,500	77.0	8,650	80.0	7,450			78.0	7,600	• •	5,950		
50	72.0	11,400	74.0	9,950	77.0	7,950	75.0	8,350	78.0	7,050			76.0	7,250	80.0	5,750		
55	70.0	10,600	72.0	9,400	75.0	7,450	73.0	7,900	76.5	6,700	80.5	5,250	74.5	6,850	78.5	5,500		<u></u>
60	68.0	9,750	70.0	8,800	73.0	7,100	71.0	7,350	74.5	6,300	78.5	5,000	73.0	6,500	77.0	5,250		
65	66.0	8,900	68.0	8,200	71.0	6,750	69.0	6,900	72.5	5,900	76,5	4,750	71.0	6,200	75.0	5,050	80.0	4,200
70	63.5	8,000	66.5	7,650	69.0	6,400	67.0	6,600	70.5	5,600	74.5	4,500	69.5	5,950	73.5	4,850	78.0	3,950
80	59.5	6,900	62.0	6,450	64.5	5,750	63.0	6,300	67.0	5,050	70.5	4,000	66.0	5,350	70.0	4,300	74.5	3,450
90	55.0	5,900	58.0	5,250	59.5	4,800	59.0	5,600	62.5	4,350	66.0	3,700	62.0	4,850	66.5	3,900	70.5	3,100
100	50.0	4,400	53.0	4,100	54.0	3,500	55.0	4,750	58.0	3,750	61.0	3,100	58.5	4,300	62.5	3,550	66.5	2,950
110						-	50.5	3,700	53.5	3,100	56.5	2,600	54.5	3,700	58.5	3,100	62.5	2,650
120							46.5	2,500	49.5	2,600	51.0	2,250			54.5	2,650	58.0	2,450
130							•								50.5	2,000	53.5	2,100

^{*}Capacities are based on the maximum obtainable boom angle.

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. Color stripes shown are a registered trademark of Kidde, Inc.

KIDDE

GROVE MANUFACTURING COMPANY
Division of Kidde, Inc.

Shady Grove, Pennsylvania 17256-0021

Form No.: LCEAT865-887-10M

CAPACITIES FOR 6,600 LBS. COUNTERWEIGHT

35 ft. Fixed Extension

(On Outriggers - 360°)

Radius		35'0" Fixed Extension									
in Feet	2°	Offset	15°	Offset	30° Offset						
reei	Ang	Load	Ang	Load	Ang	Load					
30	80.0	16,500									
35	78.5	15,650	79.5	11,650							
40	76.0	14,000	78.0	11,100							
45	74.0	12,400	76.0	10,450	79.0	8,500					
50	72.0	11,400	74.0	9,950	77.0	7,950					
55	70.0	10,600	72.0	9,400	75.0	7,450					
60	68.0	9,750	70.0	8,800	73.0	7,100					
65	66.0	8,900	68.0	8,200	71.0	6,750					
70	63.5	7,800	66.5	7,650	69.0	6,400					
80	59.5	5,600	62.0	6,200	64.5	5,750					
90	55.0	3,800	58.0	4,350	59.5	4,800					
100	50.0	2,450	53.0	2,850	54.0	3,300					

On Rubber

Radius	Static	
in	to	
Feet	1 MPH	3 MPH
10	29,500	28,000
12	23,300	23,300
15	16,500	16,500
20	10,000	10,000
25	5,900	5,900
30	3,300	3,300
35	1,500	1,500

On Outriggers - 360 $^{\circ}$

Rodius		Main B	oom Lengt	ns (4th Secti	on Fully Re	tracted)		4th Sec
in Feet	40′0″	45′0″	55′0″	65′0″	75′0″	85′0″	96′3″	Fully Exten'd 125'0"
10	130,000	90,500	87,000					
12	114,000	90,500	83,000	73,000	60,000		1,	
15	93,000	89,500	76,000	65,500	58,000	48,500		
20	68,000	68,000	65,500	54,500	47,500	41,500	33,500	
25	47,500	47,600	47,700	46,000	41,500	37,000	32,500	24,250
30	33,500	33,600	33,700	33,800	33,900	34,000	30,500	23,650
35		25,000	25,100	25,200	25,300	25,400	25,500	19,800
40			19,600	19,700	19,800	19,900	20,000	17,650
50				12,300	12,400	12,500	12,600	14,000
60	A^{3}				7,800	7,900	8,000	9,900
70						4,700	4,800	6,800
80							2,450	4,550
90								2,600

35 ft. to 61 ft. Telescopic Swingaway (On Outriggers - 360°)

			···· <u>·</u>				35′0	0" to 61'0"	Telesco	pic Swinge	away	•						
Radius	Radius 35'0"							48′0″						61′0″				
ln Saak	2°	Offset	15°	Offset	30°	Offset	2°	Offset	15°	Offset	30°	Offset	2 ° (Offset	15°	Offset	30°	Offset
Feet !	Ang	Load	Ang	Load	Ang	Load	Ang	Load	Ang	Load	Ang	Load	Ang	Load	Ang	Load	Ang	Load
30	80.0	16,500					••	10,800										
35	78.0	15,650	79.5	11,650		· ·	80.0	9,600					• •	8,000				
40	76.0	14,000	78.0	11,100			78.5	9,100	•••	7,850			80.0	7,900	<u></u>			
45	74.0	12,400	76.0	10,450	79.0	8,500	77.0	8,650	80.0	7,450			78.0	7,600	**	5,950		
50	72.0	11,400	74.0	9,950	77.0	7,950	75.0	8,350	78.0	7,050			76.0	7,250	80.0	5,750		
55	70.0	10,600	72.0	9,400	75.0	7,450	73.0	7,900	76.5	6,700	80.5	5,250	74.5	6,850	78,5	5,500		ldot
60	68.0	9,750	70.0	8,800	73.0	7,100	71.0	7,350	74.5	6,300	78.5	5,000	73.0	6,500	77.0	5,250		igsquare
65	66.0	8,900	68.0	8,200	71.0	6,750	69.0	6,900	72.5	5,900	76.5	4,750	71.0	6,200	75.0	5,050	80.0	4,200
70	63.5	7,800	66.5	7,650_	69.0	6,400	67.0	6,600	70.5	5,600	74.5	4,500	69.5	5,950	73.5	4,850	78.0	3,950
80	59.5	5,600	62.0	6,200	64.5	5,750	63.0	6,200	67.0	5,050	70.5	4,000	66.0	5,350	70.0	4,300	74.5	3,450
90	55.0	3,800	58.0	4,350	59 .5	4,000	59.0	4,500	62.5	4,350	66.0	3,700	62.0	4,850	66.5	3,900	70.5	3,100
100	50.0	2,450	53.0	2,850	54.0	3,300	55.0	3,100	58.0	3,650	61.0	3,100	58.5	3,650	62.5	3,550	66.5	2,950
110							50.5	2,000	53.5	3,000	56.5	2,600	54.5	2,500	58.5	3,050	62.5	2,650
120											51.0	1,850			54.5	2,100	58.0	2,450
130																	53.5	1,650

^{**}Capacities are based on the maximum obtainable boom angle.

CAPACITIES WITH NO COUNTERWEIGHT

On Outriggers - 360°

Radius		Main B	oom Lengt	ns (4th Secti	on Fully Re	tracted)		4th Sec
in Feet	40′0″	45′0″	55′0″	65′0″	75′0″	85′0″	96′3″	Fully Exten'd 125'0"
10	130,000	90,500	87,000					
12	114,000	90,500	83,000	73,000	60,000			
15	90,000	89,500	76,000	65,500	58,000	48,500		
20	63,500	63,600	63,800	54,500	47,500	41,500	33,500	
25	40,000	40,100	40,200	40,200	40,300	37,000	32,500	24,250
30	28,000	28,100	28,100	28,200	28,200	28,300	28,300	23,650
35		20,500	20,600	20,600	20,700	20,700	20,800	19,000
40		Ī	16,200	16,200	16,300	16,300	16,400	17,65 <u>0</u>
50	Ι			9,500	9,500	9,500	9,500	11,900
60					5,400	5,400	5,400	7,600
70						2,650	2,650	4,800
80	1					-		2,750

On Rubber

Radius in	Static to	
Feet	1 MPH	3 MPH
10	27,000	27,000
12	20,500	20,500
15	14,300	14,300
20	7,800	7,800
25	4,100	4,100
30	1,500	1,500

NOTES FOR LIFTING CAPACITIES

GENERAL:

- 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.
- 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 INSTRUC-TIONS MUST BE READ AND UNDERSTOOD PRIOR TO OPER-ATING THE CRANE.

SETUP:

- 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.
- For outrigger operation, outriggers shall be fully extended with tires raised free of crane weight before operating the boom or lifting loads.
- If machine is equipped with front jack cylinder, the front jack cylinder shall be set in accordance with written procedure.
- 4. When equipped with extendable counterweight, the counterweight shall be fully extended before operation.
- Tires shall be inflated to the recommended pressure before lifting on rubber.
- Do not transport crane with boom extension or jib erected.

OPERATION:

- 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.
- 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 as determined by SAE J765 OCT80 Crane Stability Test Code.

- 3. Rated loads include the weight of hook block, slings and auxiliary lifting devices and their weights shall be subtracted from the listed rating to obtain the net load to be lifted. When more than the minimum required hoist reeving is used, the additional rope weight shall be considered part of the load to be handled.
- Rated loads do not account for wind on lifted load or boom. It is recommended when wind velocity is above 20 mph (32km/h), rated loads and boom lengths shall be appropriately reduced.
- 5. 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.
- 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.
- Handling of personnel from the boom is not authorized except with equipment furnished and installed by Grove Manufacturing Company.
- 8. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.

DEFINITIONS:

- Operating Radius: Horizontal distance from a projection of the axis of rotation to the center of the vertical hoist line or tackle with load applied.
- 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 with the rated boom length.
- Working Area: Areas measured in a circular arc about the center line of rotation as shown on the working area diagram.
- Freely Suspended Load: Load hanging free with no direct external force applied except by the lift cable.
- Side Load: Horizontal force applied to the lifted load either on the ground or in the air.