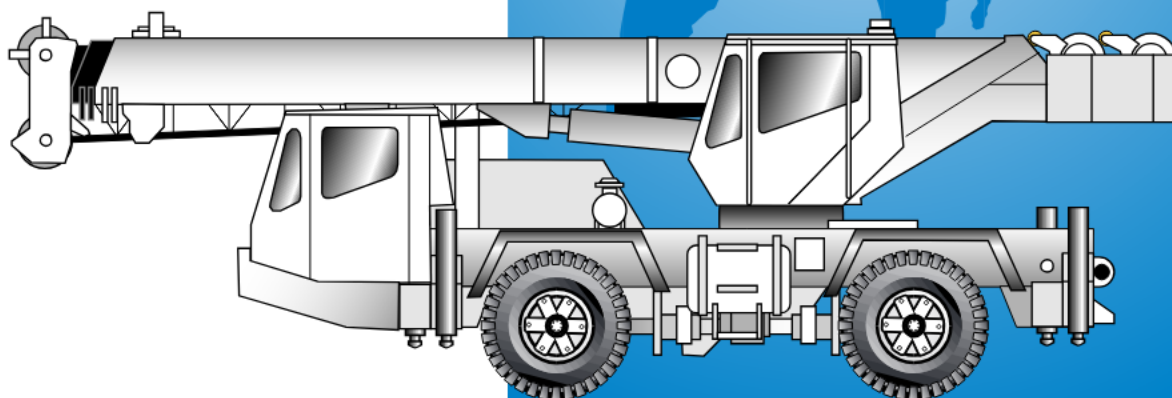


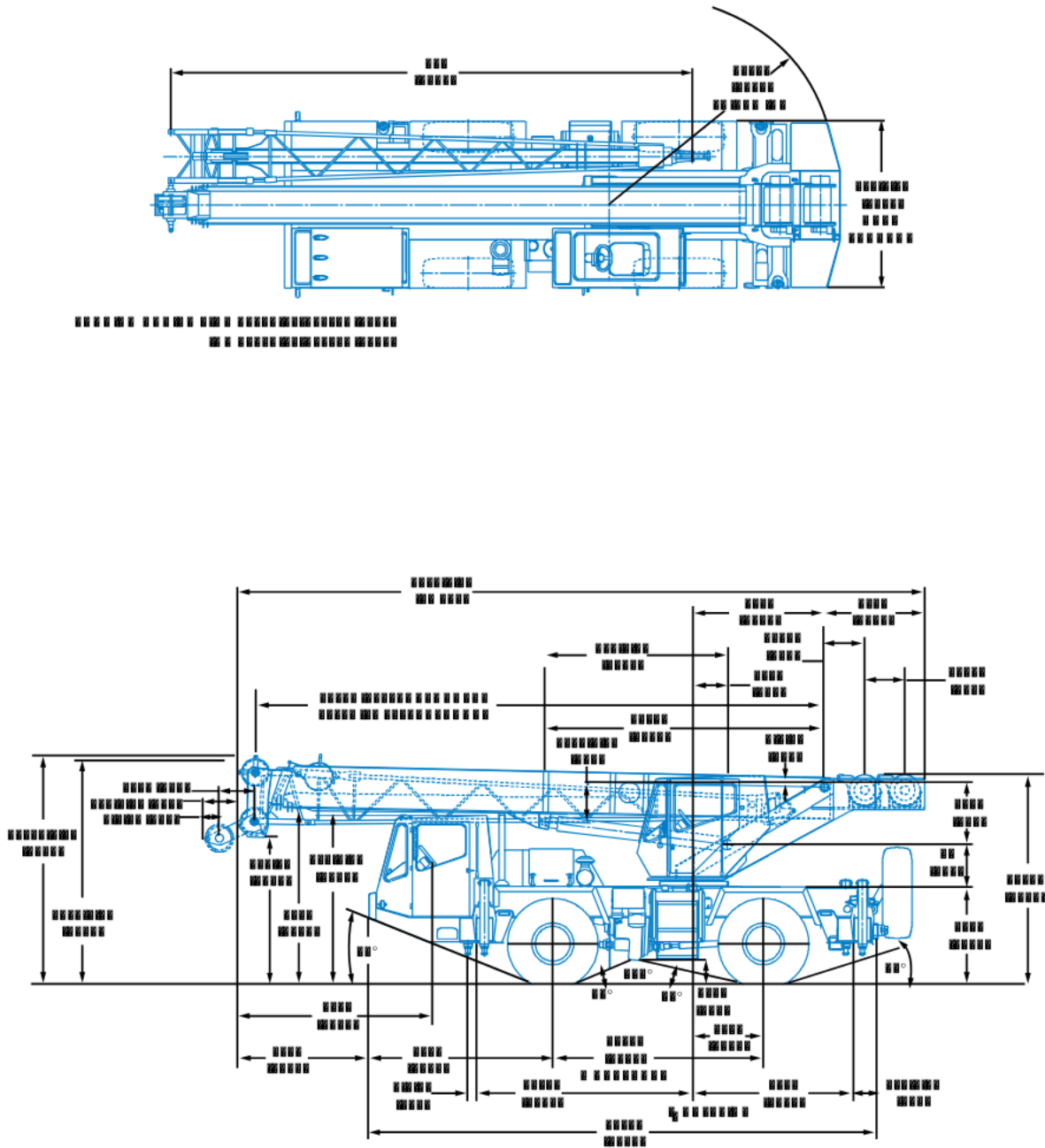


AT400 Series

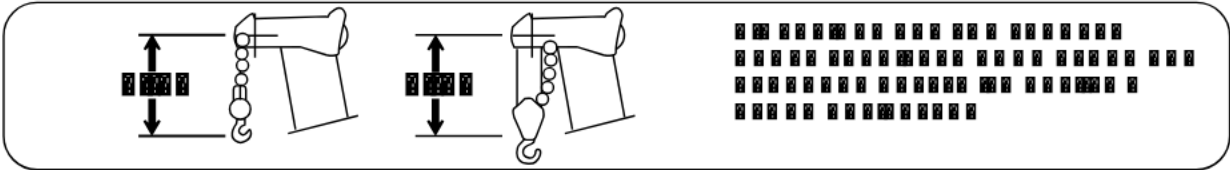
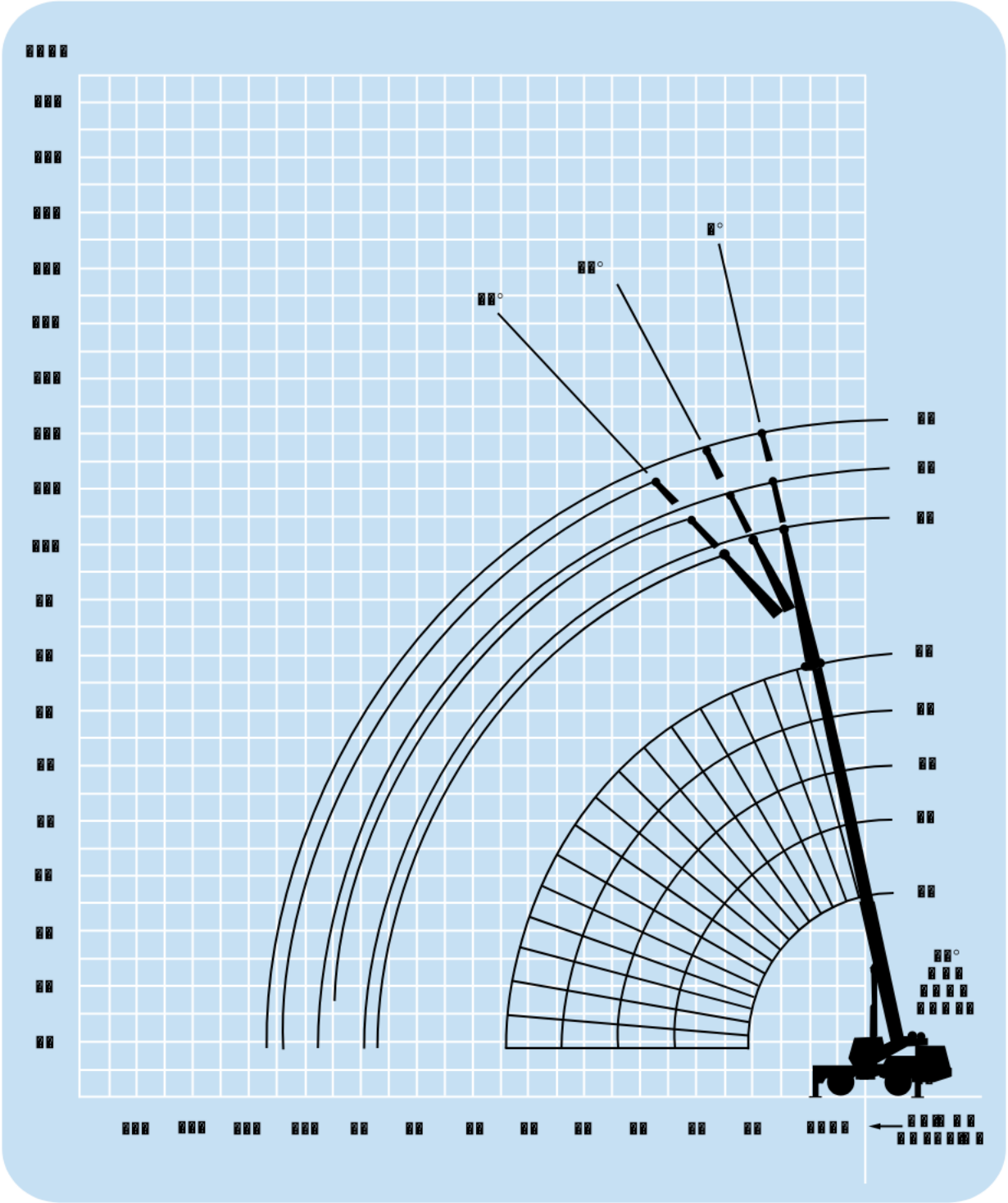


All Terrain Hydraulic Crane

Dimensions



Working Range



Superstructure specifications



27 ft. - 70 ft. (8.3 m - 21.4 m) three-section full power boom.
Maximum tip height: 78 ft. (23.8 m)



25 ft. (7.6 m) lattice swingaway extension stows alongside base boom section.
Maximum tip height: 103 ft. (31.4 m)



25 ft. to 34 ft. or 43 ft. (7.6 m to 10.3 m or 13.1 m) telescopic lattice swingaway extension offsettable at 0°, 15° or 30°. Stows alongside base boom section.
Maximum tip height: 121 ft. (36.9 m)



Three 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.



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



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



Full vision, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest mounted 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, circulating air fan, skylight wiper, swing horn, fire extinguisher and seat belt.



Planetary swing with foot applied multi-disc wet brake. Spring applied, hydraulically released parking brake and plunger type, 2 position, mechanical 360° house lock, operated from cab.
Maximum speed: 2.0 RPM.



Integral with superstructure. Extra counterweight package available.



3 main gear pumps, combined capacity 90 G.P.M. (340 LPM) driven by carrier engine through P.T.O. Pump disconnect for travel.

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.

66 gallon (250 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.



Planetary reduction with automatic spring applied multi-disc brake. Power up and down equal speed. Grooved drum. Electronic hoist drum rotation indicator.

Grove HO15C-16

Maximum Single Line Speed:	Bottom Layer	210 FPM (65 m/min)
	Intermediate Layer	245 FPM (75 m/min)
	Top Layer	265 FPM (81 m/min)
Maximum Single Line Pull:	Bottom Layer	8,100 lbs. (3675 kg)
	Intermediate Layer	7,400 lbs. (3355 kg)
	Top Layer	6,350 lbs. (2880 kg)

Maximum Permissible Line Pull w/5:1 Strength Factor: 8,100 lbs. (3675 kg)

Maximum Rope Stowage: 360 ft. (110 m) of 5/8" (16 mm)
Note: 360 ft. (110 m) length wire rope supplied with basic standard unit.

**Denotes optional equipment*

Carrier specifications



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



Hydraulic telescoping single stage, double box beam outriggers with inverted jack and integral holding valves. Three position setting, all steel fabricated, quick release type outrigger floats, 16.5 in. (429 mm) in diameter.



Controls and crane level indicator located in cab.



Cummins 6BTA 5.9 six cylinders, turbocharged and after cooled, 359 cu. in. (5.9 L), 190 hp (141 kW) (gross) @ 2,500 RPM.

Maximum torque: 435 ft. lbs. (590 N.m) @ 1,700 RPM.



40 gallons (151 L).



Two 12 V - maintenance free batteries.



4 x 4



Full independent power steering:

Front: Mechanical with hydraulic power assist controlled by steering wheel.

Rear: Full hydraulic hand lever controlled. Provides infinite variations of 4 main steering modes: front only, rear only, crab and coordinated. Mechanically locked for highway travel.



6 speeds forward and 3 reverse. Fully automatic APC 100 with engine mounted torque converter.



Front: Drive-steer with differential and planetary reduction hubs and differential locks.

Rear: Drive-steer with differential and planetary reduction hubs and differential locks.



Dual line air system operating on all wheels. Spring-applied, air released. Parking brake acting on rear axles. Air dryer, Jacobs engine brake.



16.00R20 - 22PR on/off highway radials front and rear.



17.5R25 on/off highway radials front and rear.



Leaf springs with shock absorbers all round, hydraulic lockout and automatic leveling system operated from cab.



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



One man design, all steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe fabric covered, fully adjustable seat. Complete driving controls and engine instrumentation, including tilt telescope steering wheel, tachometer, speedometer, voltmeter, water temp., oil pressure, transmission temp., fuel level, dual air pressure gauges with A/V warning, and engine high temp./low oil pressure A/V warning. Other standard items include hot water heater/defroster, electric windshield wash/wipe, fire extinguisher, seat belt, door and window locks.



55 mph (90 kph)



69.1% (Based on 40,000 lbs. [18 145 kg] GVW)



Basic unit 37,780 lbs. (17 135 kg).



Full width fenders, dual rear view mirrors, electronic back-up alarm, light package, pump disconnect, engine distress A/V warning, tire inflation kit, worklights, air cleaner restriction indicator.



- * Auxiliary hoist
- * 360° rotating beacon
- * Cab spotlight
- * Engine block heater
- * Electric skylight wiper
- * Diesel or hydraulic heater/defroster
- * Hookblocks
- * Spare wheel assembly and stowage rack
- * Tool kit
- * Pintle hook - rear

**Denotes optional equipment*

Weight Reductions for Load Handling Devices



*25 ft. (7.6 m) extension (stowed)	293 lbs.	(133 kg)
*25 ft. (7.6 m) extension (erected)	1,563 lbs.	(709 kg)



*25 ft. - 43 ft. (7.6 m - 13.1 m) extension (stowed)	535 lbs.	(243 kg)
*25 ft. - 43 ft. (7.6 m - 13.1 m) extension (erected [ret.])	3,906 lbs.	(1772 kg)
*25 ft. - 43 ft. (7.6 m - 13.1 m) extension (erected [ext.])	4,995 lbs.	(2266 kg)

*Reduction of main boom capacities:

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.

HOOKBLOCKS:

+ 22 ton, 3 sheave	499 lbs.	(226 kg)
+ 15 ton, 2 sheave	462 lbs.	(210 kg)
+ 12 ton, 1 sheave	360 lbs.	(163 kg)
+ 5 ton headache ball	172 lbs.	(78 kg)
+ Auxiliary boom head	145 lbs.	(66 kg)

+ Refer to rating plate for actual weight.



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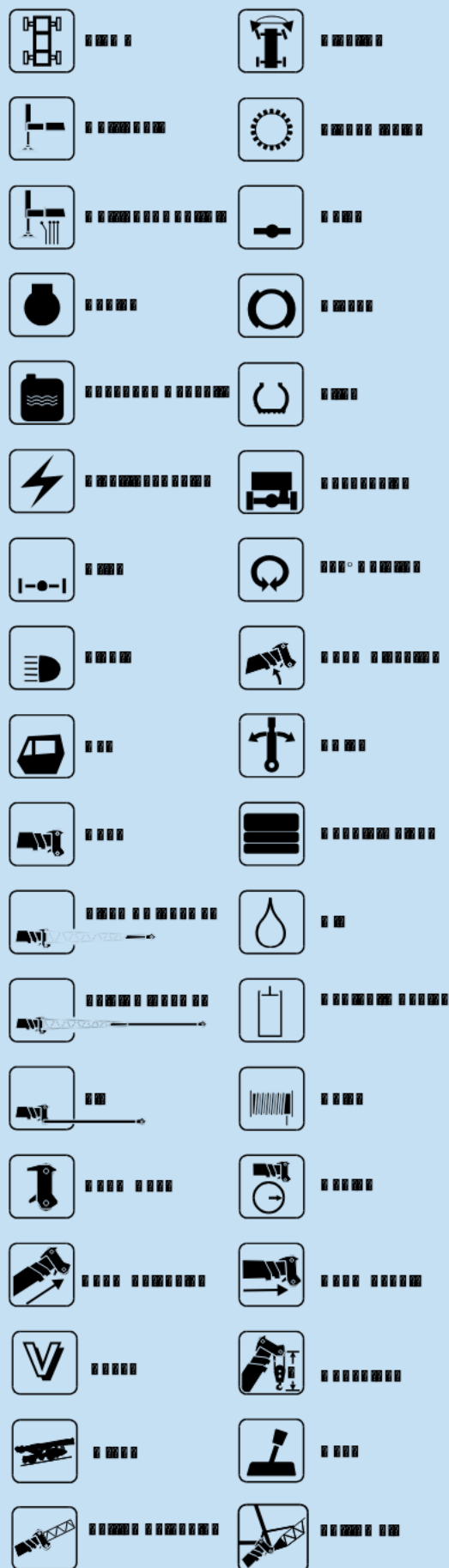
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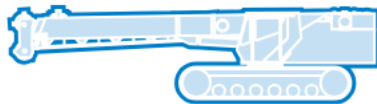
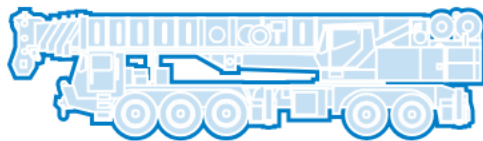
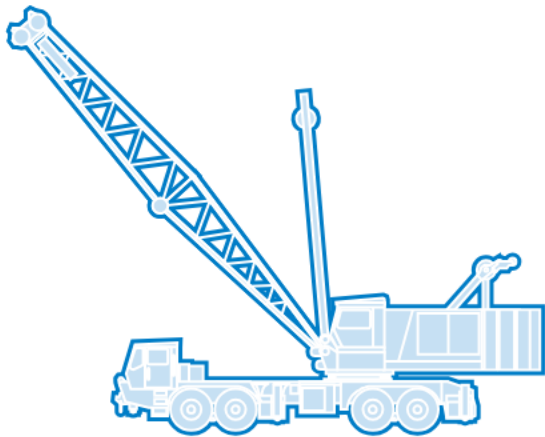
WARNING: THIS CHART IS ONLY A GUIDE.

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 NOV93 - Cantilevered Boom Crane Structures - Method of Test, perform to SAEJ765 OCT90 Crane Stability Test Code.
2. Capacities given do not include the weight of hook blocks, 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 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 properly extended with tires raised free of ground before raising the boom or lifting loads.

Symbols Glossary





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, OX141SG
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

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

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

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