

A GREAT NEW EULL-POWER BOOM!

TRAPEZOIDAL[†] SHAPED... STRONG...LIGHT...RIGID



for greater capacity, more precise load handling.

To give you this great new boom, Grove engineers have applied the technology and experience gained in the development of the high capacity, long reach Trapezoidal-booms used on our larger cranes to provide a high performance boom especially suited to the requirements of smaller RT cranes. You'll find a minimum of vertical and horizontal deflection to give you better control of the load. You'll also find the optimum combination of on-rubber and over-the-side capacities.

REACH TO FIT YOUR NEEDS

This new boom is available in three lengths, 42° (12.7m), 50° (18.2m) and 70° (21.2m). All are full power and can be fitted with stowable "A" frame jibs to increase their reach.

HOOM	MAIN STOOM TIP HT.		MAX. TIP. HT. JIB
24-42 ft. 7,4-12,7 m	49 h. (14 lim)	20 H: (E-fm) A Dame-atosuble	60 m (2007m)
7.5-10.0. 7.5-10.2m	56.Rt (20.1ml)	20 ft. (0.1m) A frame-stownthi	(2年2市)
28-10 II. 8:6-21:2m	Thine. (32,5mi	33-38.9.77.5-17.filent "A" frame-telescoping- atownste	(Da 4m)
	MILL	20 to (7 tot) TACOUND SOWNING	16 ft. (20 50)

GROVE JIB ADVANTAGES

Because you frequently set-up in tight quarters. Grove engineers selected the Grove "Stowaway" jib rather than the "Swingaway" as the better extension for RT cranes of this size. The "Stowaway" jib mounts to the boom nose, stows beneath the main boom and is easily erected in confined space.

POSITIVE SYNCHRONIZATION

The Grove cable synchronization system on the 50' (18.2m) and 70' (21.2m) booms is a positive mechanical method of keeping the individual boom sections equally extended at all boom lengths. A single telescope cylinder, controlled by a single lever, powers the system.



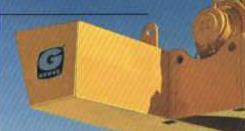
This introduces the new "500" Series rough terrain cranes . . . they're typically Grove out in front of competition with industry-leading features that give you more money-making and time-saving benefits than any crane in the 15 thru 22-ton range (16-20 metric tons). They're cranemen's cranes, loaded with user-oriented features and jobsite proven components designed and built by Grove to give you more lifting and handling capability for your crane dollar. The "500" Series cranes are designed so that you can select components to meet your individual needs. There are three booms to choose from, four engines, a selection of hoists, tire options to meet your ground conditions or tire-purchasing practice, and a host of other options to give you the performance your lifting and handling jobs require.

GROVE HOISTS

The hoists offered on this crane are all designed and manufactured by Grove except for the controlled free-fall hoist. They feature planetary gear drive, power up and down equal speed with integral automatic brake. Hoisting and lowering speeds can be controlled from zero to maximum under all load conditions. Vane motor drives provide increased starting torque for better inching control and quiet running.

SMOOTH, PRECISE SWING

Grove planetary speed reducer powered by a hydraulic high-torque, low RPM orbit motor provides smooth, precise 360° continuous rotation. Grove "Glide Swing" with foot-activated multiple disc swing brake permits precise control of the load. A positive swing lock secures the superstructure for travel.



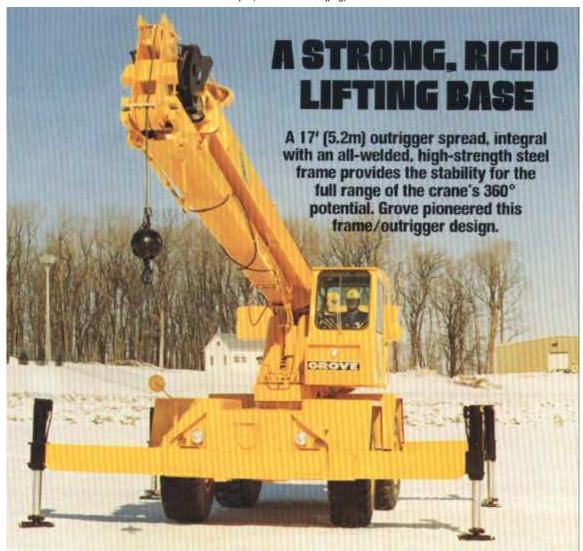




EASY ON THE OPERATOR

Human engineering and crane know-how abound in the well-proportioned, acoustically-treated operator's control center. The turntable-mounted cab is isolated from the turntable on vibration and sound-absorbing rubber grommets. Controls are conveniently arranged to assure maximum ease and efficiency in performing all crane and driving functions. All instruments, including those for the engine are located in the cab permitting full-time monitoring of conditions.

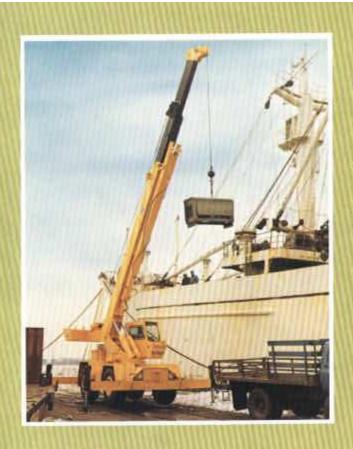




AN EASY-TO-MANEUVER, SMOOTH TRAVELLER

AIR-OVER-HYDRAULIC BRAKE SYSTEM

The "500" Series has a dual air-overhydraulic four-wheel service brake system. The hydraulic and air systems are divided, one to each axie, with a pressure protection valve favoring the rear axie. The air system incorporates an air dryer to prevent moisture in the system and assure maximum braking efficiency. Grove's system of independent steering control for each axle provides superior maneuverability and the tightest turning circle in this class. Balanced axle loadings, smooth power transfer through a 6-speed power shift transmission and 2 or 4-wheel drive assure smoother travel. Off the road where four-wheel ground contact is essential, the rear axle oscillates up to 10" (254mm) with the boom positioned over the front. This adds up to a smoother ride, especially during pick-and-carry operations. For over-the-side on-rubber lifts, the rear axle is automatically locked to provide a rigid base.



EASY ACCESS FOR SERVICE

Routine service is just that . Accessibility for routine service is designed into the "500" Series cranes More important, however, is the fact that these cranes are designed to require less service. They use fewer purchased components than any crane in this size range. This gives Grove engineers the opportunity to design maximum reliability into Grove manufactured components. It goes beyond that the Grove Quality Assurance staff makes repetitive tests on every completed crane covering all normal operating functions to verify reliability. That's why owning a Grove crane gives you the extra advantages of high availability and higher retained value and that's why your next rough terrain crane should be a Grove!

