

A yellow Grove RT518 hydraulic crane is shown in operation at an industrial facility. The crane's long, trapezoidal boom is extended upwards, lifting a large, vertical cylindrical component. The background features complex industrial structures, including pipes, scaffolding, and a tall chimney stack under a clear blue sky. The crane is positioned on a concrete pad, and a worker is visible near the base of the structure being lifted.

GROVE
RT518

GROVE
**HYDRAULIC
CRANES**

SELF-PROPELLED
**HYDRAULIC
CRANE with
TRAPEZOIDAL
SHAPED BOOM**

18 TON
CAPACITY
16 - METRIC TONS

CONSTANT IMPROVEMENT AND ENGINEERING PROGRESS MAKE IT NECESSARY THAT WE RESERVE THE
RIGHT TO MAKE SPECIFICATION, EQUIPMENT AND PRICE CHANGES WITHOUT NOTICE. ILLUSTRATIONS

**A GREAT NEW
FULL-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), 60' (18.2m) and 70' (21.2m). All are full power and can be fitted with stowable "A" frame jibs to increase their reach.

BOOM	MAIN BOOM TOP WL.	JIB	MAX. TIP HT. JIB
24-42 ft. 7.4-12.7m	48 ft. (14.6m)	20 ft. (6.1m) "A" frame-stowable	68 ft. (20.7m)
25-60 ft. 7.5-18.2m	66 ft. (20.1m)	20 ft. (6.1m) "A" frame-stowable	86 ft. (26.2m)
28-70 ft. 8.6-21.2m	70 ft. (21.3m)	33-38 ft. (10.1-11.6m) "A" frame-telescoping- stowable	113 ft. (34.4m)
		29 ft. (7.3m) "A" frame-stowable	85 ft. (25.9m)

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 60' (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.



UP TO 30° OFFSET will get you up-and-over with ease. Jibs may be set at 0°, 15°, or 30° offsets. The Grove Trapezoidal boom provides the strength and rigidity to handle a 30° offset, which provides capacities and working radii... superior to other RT cranes with less offset.

RT518

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 cranesmen'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.

UGH TERRAIN CRANE





A STRONG, RIGID LIFTING BASE

A 17' (5.2m) outrigger spread, integral with an all-welded, high-strength steel frame provides the stability for the full range of the crane's 360° potential. Grove pioneered this frame/outrigger design.

AN EASY-TO-MANEUVER, SMOOTH TRAVELLER

AIR-OVER-HYDRAULIC BRAKE SYSTEM

The "500" Series has a dual air-over-hydraulic four-wheel service brake system. The hydraulic and air systems are divided, one to each axle, with a pressure protection valve favoring the rear axle. 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 . . . routine. 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!

THE MOST COMPLETE LINE OF HYDRAULIC CRANES FOR CONSTRUCTION & INDUSTRY



CARRIER MOUNTED CRANES
18 through 140 U.S. tons
(18 through 130-tons metric)



ROUGH TERRAIN CRANES
8 through 50 U.S. to
(7.3 through 45-tons)



INDUSTRIAL CRANES
2 through 35 U.S. to
(1.8 through 31.8-ton)



WORLD LEADER IN HYDRAULIC CRANES

GROVE MANUFACTURING COMPANY

Division of Walter Kidde & Company, Inc.
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