

# Mack

type **21**

**FIRE APPARATUS**



**1250-GALLON TRIPLE COMBINATION PUMPER**

In designing and building fire apparatus for the protection of lives and property there can be no compromise with quality. All Mack apparatus is built to meet this responsibility.

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# SPECIFICATIONS

## MACK TYPE 21 TRIPLE COMBINATION PUMPER

<b>Engine</b>	8 cylinder
Bore and Stroke	1 1/2" x 8"
Drive Horsepower	200
Displacement	800 cu. in.
Carburetor	Updraft
Ignition	Double
<b>Transmission</b>	8 speed forward — one reverse
<b>Front Axle</b>	1 beam, Hoverned shaft
<b>Rear Axle</b>	Full floating — Single Reduction
<b>Steering Gear</b>	Worm & Buller Type
<b>Brakes</b>	Four wheel hydraulic, 170 sq. in. lining area, 800 sq. in. drum area. Hand brake, front or driveway, 81 1/2 sq. in. lining area
<b>Tires—Dual Rear</b>	10.00-20
<b>Wheelbase</b>	180 1/2
<b>Overall Width</b>	60"
<b>Pump Equipment</b>	1890 gallon pressure volume, two-stage centrifugal, Two 10" heads of 6" hard suction hose — One 6" strainer
<b>Booster Equipment</b>	100 gallon booster tank — 150 of 1/2" epoxy booster hose with shut-off handle and two tips on each reel
<b>Body</b>	Of heavy gauge steel her level cold rolled steel. Hard mild top and rear. Removable slatted wood floor. Capacity of hose trays 1800 feet of 1 1/2" double jacket hose and 1000 feet of 1 1/2" hose.
<b>Warning Signals</b>	Three yellow slow with flasher
<b>Lighting Equipment</b>	Two headlamps with double beam lamps. Two front fender red parking lights. Combination stop and tail light. Two inside controlled driving lights. Pump gauge panel light. Instrument panel light. Two engine lights. Two rear spot lights.
<b>Fire Equipment</b>	One 11' roof ladder with folding hooks. One 24' side side extension ladder. Two fire department axes. One steel crowbar. One 11' saw pole. Two electric hand lanterns. Two 2 1/2" gallo-jack type extinguishers. Two pry-pike cones or screw drivers. One 2 1/2" double female connection. One 2 1/2" double male connection. One 5" master connection. One 1 1/2" x 2 1/2" rigid connection.
<b>Seat</b>	For three men. Various types of seats available
<b>Approximate Weight</b>	15,100 pounds
<b>Paint</b>	Fire Department Red Gold foot lettering and stripes

MACK Type 21 is also available in Quadruple Combination.

There being no standard or series models of MACK products, refinements and improvements are effected whenever sound development and thorough trial prove them to be advantageous. The right is therefore reserved to change specifications or prices without notice.



**MACK TYPE 21**  
Triple Combination Pumper  
Standard Open Seat



**MACK TYPE 21**  
Triple Combination Pumper  
Standard Semi-Cab



**MACK TYPE 21**  
Triple Combination Pumper  
Standard 3-Man Cab



**MACK TYPE 21**  
Triple Combination Pumper  
Streamlined 7-Man Sedan Cab



**FIRE APPARATUS DIVISION**  
**MACK MANUFACTURING CORP.**  
Allentown, Pa.



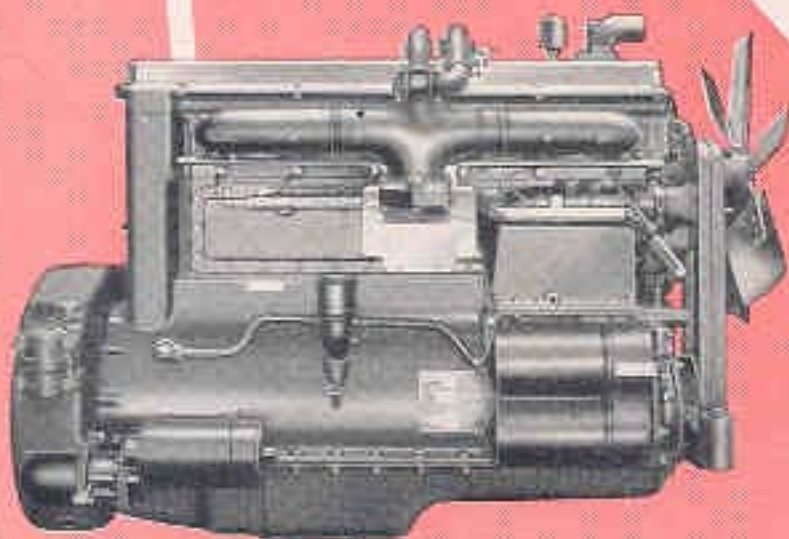


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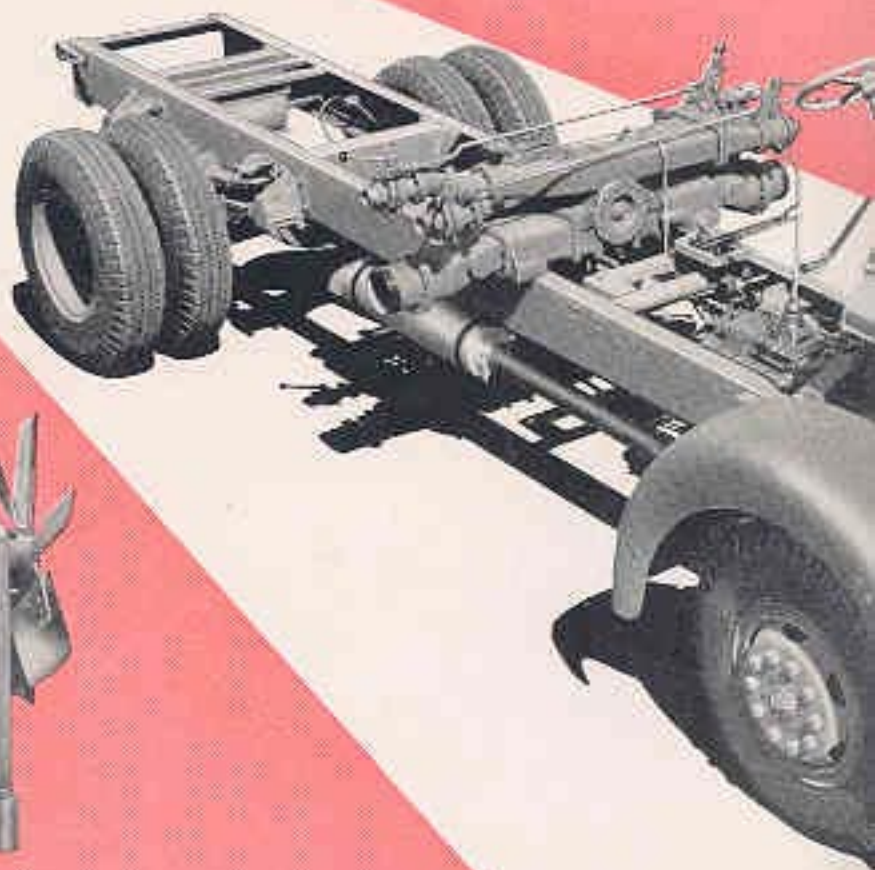
**POWER**

## FOR PROTECTION

Power is the outstanding feature of the Type 21, 1250-gallon Triple Combination Pumper. This great Mack unit is specifically designed for communities whose fire protection requirements demand maximum horsepower. A large-capacity pumper, the Type 21 is especially suited for the most strenuous operations. Like every piece of Mack fire apparatus, Type 21 is a perfectly balanced unit, unequalled for dependability, unrivaled in road and pump performance.



**ENGINE:** This rugged 935-cubic-inch fire apparatus type engine develops 298 brake horsepower at 2400 r.p.m. Here is plenty of power for high-road-speed operation, for rapid acceleration and effortless hill climbing. Here is power to spare for the most grueling continuous pumping at low engine speeds.



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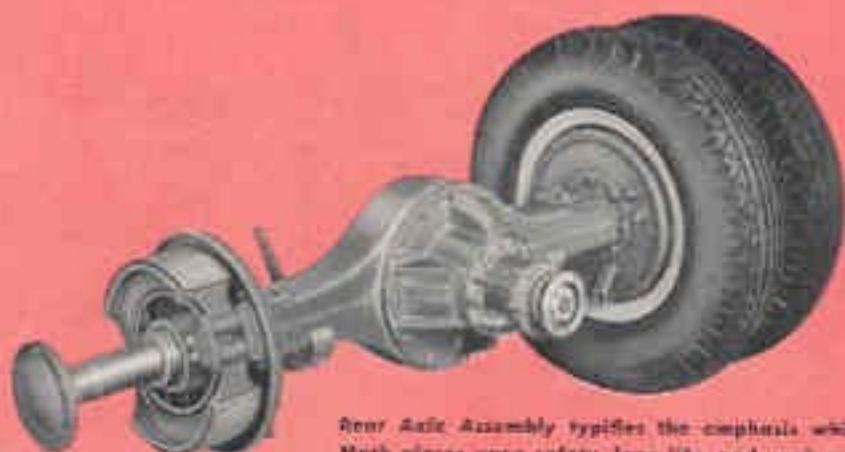
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Mack Rubber Shock Insulators retain the ends of the massive springs. They eliminate the friction of binding metal surfaces and assure smooth operation without squeaks or spring rattles. The need for any adjustment or lubrication is done away with. Road shocks are dampened and dissipated, vehicle life is lengthened.

Brakes have extra large drum and lining area. Of the hydraulic type actuated by a powerful Hydramax booster, they assure complete control at all speeds. Built-in air brake equipment is also available.



Rear Axle Assembly typifies the emphasis which Mack places upon safety, long life, and peak performance. Drive is single reduction with spiral bevel gears. Completely enclosed differential assures positive lubrication. The truly full-floating wheels offer such exclusive advantages as graduated heat-treated shafts for greater strength, and involute splines that provide higher resistance to shock. Brake flanges, spring perches, and housing lock cover are fixed in place to assure utmost rigidity. Air brakes illustrated are optional.



Box-girder Cross-member, designed and used exclusively by Mack, has proved to be the finest all-around cross-member yet developed. It has tremendous beam strength in both vertical and horizontal planes. Torsional rigidity is extremely high. Unique jaw-ends assure greatest stiffness at every junction. Use of the Mack box-girder cross-member in the Type 21 helps produce a frame that won't spraddle, bend, warp, or twist, a frame that stays true.



Built entirely in Mack's own factories, the Type 21 chassis features a frame of lasting strength and rigidity. Side-members, of highest grade heat-treated chrome-manganese steel, are joined by two Mack box-girder cross-members and one tubular and one channel type cross-member. Spring-ends are mounted to the frame by Mack rubber Shock Insulators. Mack design has simplified and reduced maintenance requirements to a minimum. The perfect balance and roadability of the Mack Fire Apparatus chassis is the result of unequalled experience in chassis engineering, design and construction.

The convertible volute type centrifugal pump was introduced to the fire apparatus field by Mack. Its design simplicity and rugged construction result in great strength, exceptional durability and highest efficiency. Throughout the nation, it has established an enviable reputation for superior trouble-free performance. The pump illustrated is rated at 1,250 gallons per minute. . . . A Mack automatic throttle control pressure regulator holds desired pump pressure regardless of the number of hose lines in or out of action.

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