



MODEL

B-50T



SCIENTIFICALLY designed, the Mack B-50T will pay extra dividends throughout its long useful life. Modern in every particular, this tractor built solely for use as such, provides the stamina and performance ability essential to profitable long distance service.

Skillful engineering has solved the increased-power-to-weight ratio challenge with the Mack EN 431A Thermodyne engine of proven dependability and the expert reduction of chassis weight by the careful selection of lighter materials without sacrifice of durability.

Longer trailers with additional profit-making payload capacity may now be utilized. This is accounted for by the dimension of 102" from bumper face to cab rear. Forward position of front axle permits maximum GCW in formula states.

Supplementing these modern advances, a wide choice of axles, transmissions, gear ratios and tire sizes may be had. Whether in congested traffic or highway interstate service, all the required performance flexibility is provided by this model.

Final drive is through five- or ten-speed direct or overgear transmission, the ten-speed available as a two-lever Duplex or the ultra-convenient single flipper controlled Mono-shift.

A front axle of greater than standard capacity may be ordered, to care for more advantageous forward loading when king-pin location is advanced. Rear axle choices are Dual Reduction, two-speed and Single-reduction, latter having hypoid gears with greater tooth contact and therefore stronger, quieter and longer life.

New sturdy cab, foremost in driver safety and comfort, is furnished with quarter windows and cowl ventilator. Cab heater with constant fresh air intake, can be installed. Fast warm-up is obtained in zero weather through controlled recirculation of cab air.

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STANDARD EQUIPMENT

Condensed Specifications

WHEELBASE—146½", Platform—105"

ENGINE:

Model EN 431A Thermodyne
 Number of cylinders Six
 Bore and stroke 4½" x 5½"
 Piston displacement, cu. in. 431
 Maximum horsepower @ 2800
 r.p.m. 150
 Brake horsepower @ 2500
 r.p.m. (gov.) 147
 Max. torque @ 1400 r.p.m.
 Pound-feet 350

CLUTCH:

Model CL-472
 Type Single-plate, dry
 Area of engagement, sq. in. 202

FUEL SYSTEM:

Carburetor Zenith, updraft
 Tank capacity & location 22 gal., left apron

COOLING SYSTEM:

Radiator, type Continuous-finned
 flat tube
 Frontal area, sq. in. 560
 Thermostat Bellows
 Water pump Centrifugal
 Fan, material Pressed-steel
 Type Asymmetrical
 Water capacity of system 48 quarts

ELECTRIC SYSTEM:

Voltage and capacity 12V., 50 Amp.
 Generator, make Delco-Remy
 Starting motor, make Delco-Remy
 Battery, make Exide or Auto-Lite
 Number required Two (6V)
 Location Right apron

Except when 40 or 50 gallon Mark Safety tanks are installed on both sides, Batteries are then mounted to right frame side rail, behind cab.

TRANSMISSION:

Model TR 771
 Type Selective, constant mesh
 No. of speeds, forward Five
 reverse One
 Ratios, 5th 1.00; 4th 1.51; 3rd 2.03; 2nd 3.85; 1st 7.08;
 Rev., 7.15.

DRIVESHAFTS:

Location Front and rear
 Diameter 3½"
 Wall thickness 0.156"
 Center support Swing type, rubber
 lashed, with single-
 row ball bearing

FRONT AXLE:

Model FA 505
 Basic rating 8,000 lbs.
 Type Reversed Elliott, I-beam

REAR AXLE:

Model RAS 507
 Basic rating 20,000 lbs.
 Final drive Single-reduction
 Housing, construction One-piece banjo,
 steel casting
 Axle shafts, material Chromium-
 molybdenum
 steel, heat-treated
 Final ratios 5.63, 6.14, 6.86, to 1

BRAKES:

Type Internal expanding,
 enclosed
 Actuation Air
 Front, size 16¼" x 3" x ¼"
 Rear, size 16½" x 6" x ¾"
 Total braking area, sq. in. 618
 Hand, size 12" x 5" x ¾"
 Lining area, sq. in. 130

FRAME:

Material Alloy steel, heat-treated
 Side-members, size 9" x 3¼" x ¼"
 Section modulus 9.76
 No. of cross-members & type Three channel

SPRINGS:

Front, type Semi-elliptic
 size, length 36"
 width 3"
 Leaf thickness 0.360" (8 leaves)
 Rear, type Vari-rate, semi-elliptic,
 with three leaf radius
 10d
 size, length 59" no-load; 46" loaded
 width 3"
 Leaf thickness 0.447" (10 leaves;
 5 spacers)
 Suspension, front Rubber Shock Insula-
 tors, front end; fixed
 pin, rear end
 rear Cam type variable
 action brackets

SHOCK ABSORBERS— FRONT:

Type Houdaille, rotary-
 hydraulic

TIRES:

Size 10.00-20 (12P)
 Rims 7.5, including spare

WHEELS:

Type Steel casings, six spokes

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