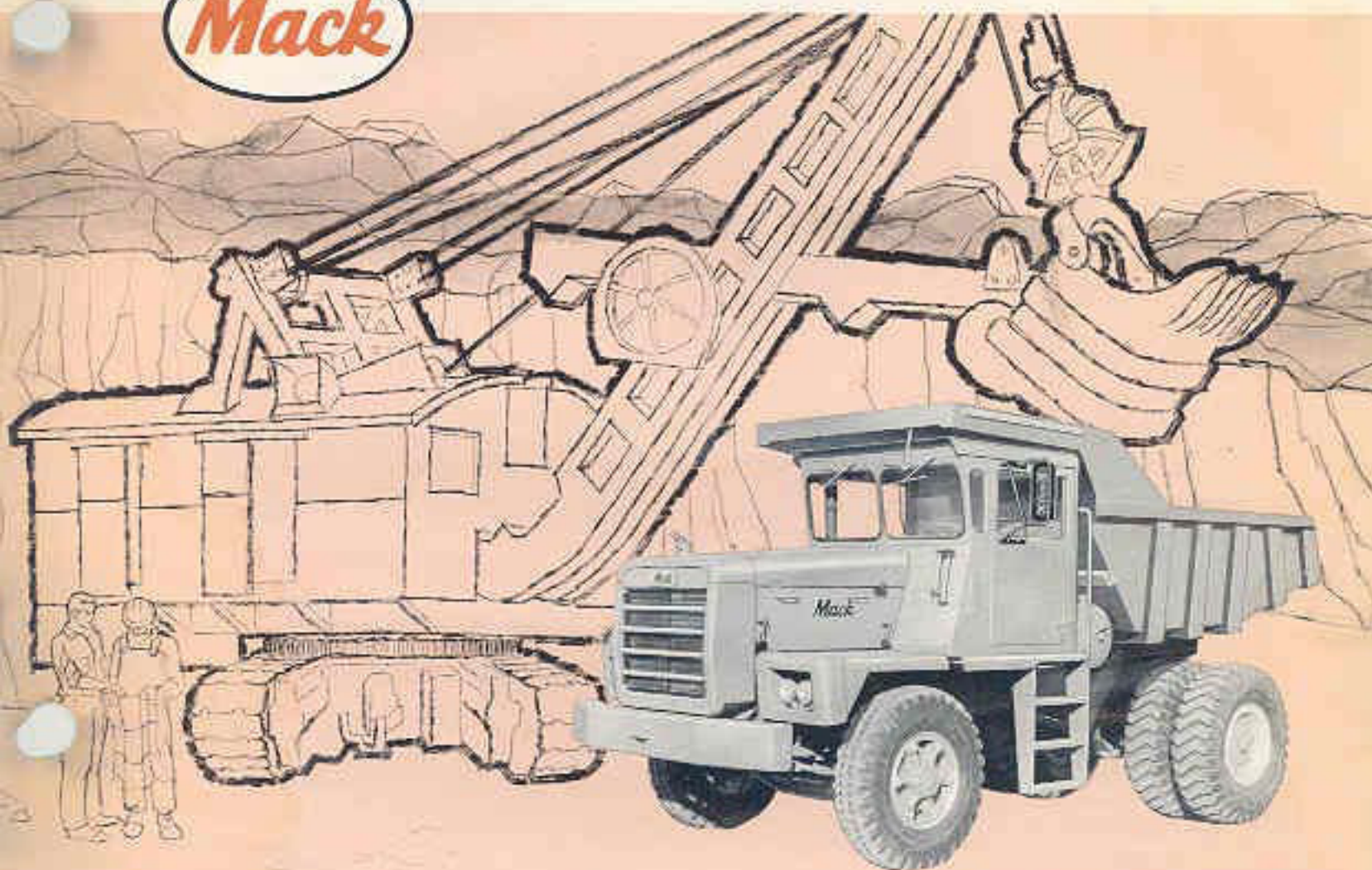




M-20X

20 ton end dumper



Dependable hauling in the 20 ton off-highway dump field at minimum operating cost is offered by Mack model M-20X. This diesel-powered four-wheel truck is designed specifically for use in the contracting, mining, and quarrying fields. Increased payload capacity is obtained by engineering improvements and reduction in vehicle weight.

Quality built Mack components are used throughout to give long trouble-free service even under severe operating conditions. The chassis frame has a pronounced slope toward the front and a constant section depth from front to rear. It is designed to obtain maximum capacity with minimum weight and to avoid stress concentration.

Excellent load carrying features are present in the modern designed body with semiflared sides and single floor, high-strength construction. Cab appointments are attractive and convenient. The cab offset facilitates operation at the shovel and at the dump.



MACK TRUCKS, INC. Montvale, N. J.



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MODEL M-20X

STANDARD EQUIPMENT

WHEELBASE: 155" **PLATFORM:** 115"

ENGINE: (Mack Diesel)

Model END 711
 Make Mack, Thermodyne
 Number of cylinders Six
 Bore and stroke 5" x 6"
 Piston displacement, cu. in. 707
 Brake horsepower @ 2100
 rpm. (gov.) 211
 Max. torque @ 1350 rpm.
 Pound feet 602
 Lube oil filter Dual full-flow/by-pass
 Capacity 12 qts.
 Lube oil cooler Air Sed.
 Fuel injection pump, make American Bosch
 Type Multiple unit
 Governor American Bosch,
 mechanical
 Air cleaner Dustclose, dry-type
 Filter efficiency grade Standard
 Fuel tank & location 100 gal., back of cab (with
 magnetic gauge)

CLUTCH: (Mack)

Model CL 50 with clutch brake
 Type Two-plate, dry
 Outside dia., facing 14"
 Area of engagement, sq. in. 416

COOLING SYSTEM:

Radiator, type Continuous-finned, flat
 tube
 Frontal area, sq. in. 1010
 Thermostat, % open 170"

ELECTRICAL SYSTEM:

Voltage and capacity 12 Volt, 35 Amp.
 (24 V. Starting)
 Generator, make Delco-Remy
 Starting motor, make Delco-Remy
 Battery (2) 12 Volt
 Group 4H
 Plates per cell 73
 Amp. hr. @ 20 hr. rate 160
 Location Under seat, right side

TRANSMISSION: (Mack)

Model TRD 7220
 Type Nine-speed overgear,
 two-lever Duplex
 Power take-off Disconnect type,
 6-bolt SAE
 Location Main case, safe opening

Ratio	High Range	Low Range
1st	0.78	1.02
4th	1.00	1.31
3rd	1.26	2.29
2nd	3.15	4.09
1st	5.45	7.12
Rev.	5.45	7.12

DRIVESHAFTS:

Make Spicer
 Type (series) Flange (1700)
 Tube diameter 3 1/2", 0.156" wall

FRONT AXLE: (Mack)

Model FA 700
 Type Reversed flange, drop-
 forged I-beam

REAR AXLE: (Mack)

Model RADP 1001
 Type of drive Dual Reduction and
 Mack Planidrive
 Housing, construction Cast, heat-treated alloy
 steel, one-piece hump
 with flange mated
 spindle ends
 Final drive PR 117, planetary gear
 train within wheel hubs
 Carrier CRD 117
 Ratios:
 Carrier 4.62
 Planetary 5.60
 Total 16.63

BRAKES:

Front Mack
 Actuation Air
 Size 17 1/4" x 9" x 1 1/4" (555)
 Rear Scopmaster
 Actuation Air over hydraulic
 Size 20 1/4" x 7" x 3/4" (592)
 Brake Adjustment Automatic
 Hand size 12" x 5" x 3/8" (139),
 Bendix internal shoe
 Compressor Tu Flo 500 (12 cu. ft.)
 Reservoir capacity 55.72 cu. in. (total)

FRAME:

Type I-beam, wide flange, rolled
 section
 Material Alloy steel
 Size 12 1/4" x 6 1/2" x 1/2" web,
 1/2" flange
 Section modulus 60.7 per rail
 No. of cross-members Four, including integral
 front and rear bumpers

SPRINGS:

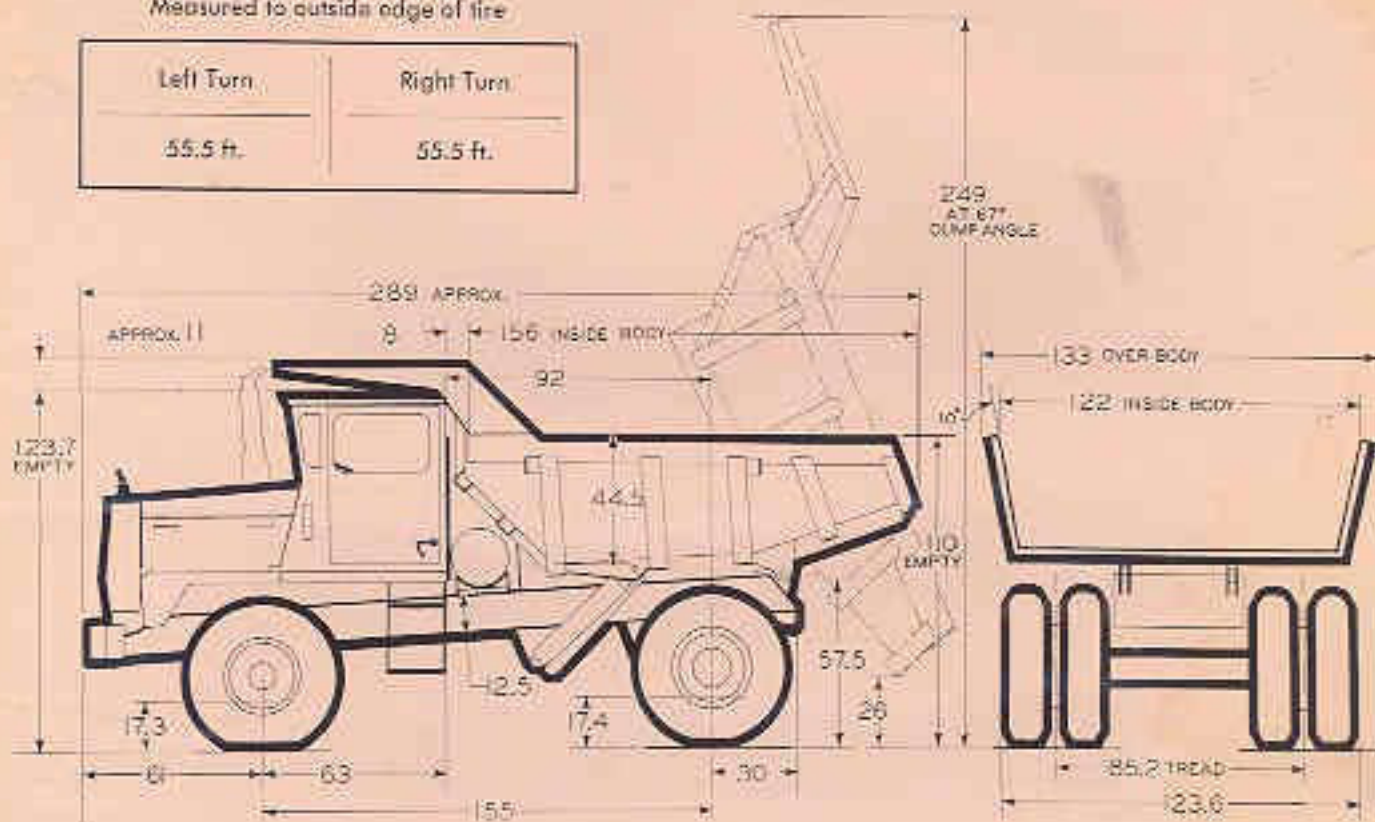
Front
 Type Semi-elliptic, Vari-rate
 Length (bet. load centers) 46" at rated load
 Width 4"
 Shot peened Titanium side all leaves
 Suspension Cam face slipper ends



Model M-20X chassis diagram

TURNING CIRCLE DIAMETER
(Estimated)
Measured to outside edge of tire

Left Turn	Right Turn
55.5 ft.	55.5 ft.



Dimensions are in inches except where otherwise denoted.

*CAPACITY AND WEIGHT GUIDE—(PAYLOAD 40,000 lbs.)

TIRES (Tubeless)	ITEM	Chassis Only	Chassis and Body	Maximum GVW
13.00-25 (18P) Front	Total	21,500	32,000	72,000
16.00-25 (24P) Rear	Front	11,100	13,250	17,900
	Rear	10,100	18,750	54,100
	Dist. %	5%-47	41-59	25-75

* These weights are nominal averages subject to variations inherent with detail differences in body, body and chassis specifications. Weights and load distributions for proposals and sales should be individually estimated.

MACK TRUCKS, INC.

Montvale, New Jersey

MACK TRUCKS WORLDWIDE LIMITED • Hamilton, Bermuda

MACK TRUCKS MANUFACTURING COMPANY OF CANADA LIMITED / Toronto, Ontario, Canada

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