



**MODELS**

**M-50AXT**

**120BDT**

**120 ton tractor bottom dump semi-trailer**



**MACK** traditional dependability and long history of off-highway manufacturing skill are proof of cost-cutting performance by this 120-ton, Mack four-wheel tractor with bottom dump type semi-trailer.

**EXTENDED TIRE LIFE** results from a firm front end alignment provided by the solid front axle and rear wheel tracking afforded by a rear axle leaf spring and torque rod suspension.

**CHOICE OF DEPENDABLE DIESEL HORSEPOWER** is economically most particular operations is provided by a 4-cycle or 2-cycle engine up to 800 horsepower.

**OPTIMUM PERFORMANCE** is assured with the service-proven six-speed torque converter transmission.

**MACK 'CONSTANT FREQUENCY' SUSPENSION** assures an excellent ride both loaded and empty.

**INCREASED UP TIME** by Mack's rear axle with unique Mack Planidrive gears—located at wheel ends—easy to service.

**CHASSIS FRAME** is stress-analysis designed for the ultimate in strength and durability.

**MACK TRUCKS, INC.**

ONE OF THE FORD COMPANIES

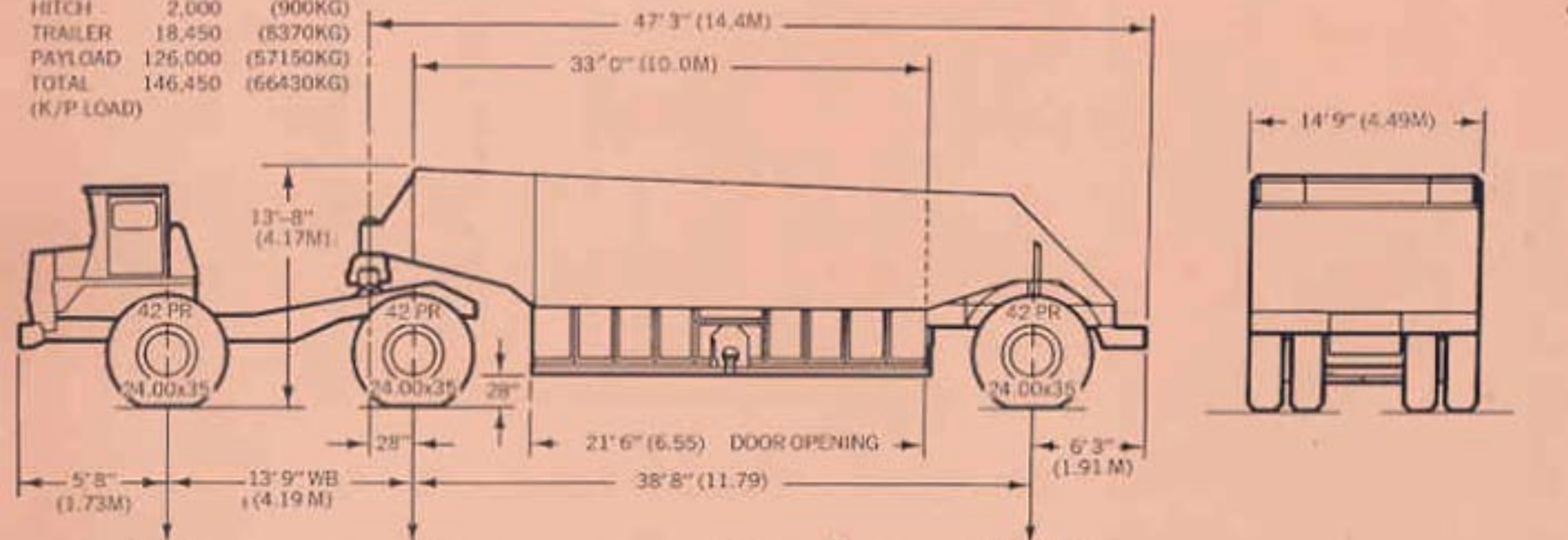
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# Model M-50AXT-120BDT *diagram*

HITCH 2,000 (900KG)  
 TRAILER 18,450 (8370KG)  
 PAYLOAD 126,000 (57150KG)  
 TOTAL 146,450 (66430KG)  
 (K/P LOAD)



FRONT		REAR		TOTALS		SEMI-TRAILER REAR		TOTALS		TOTAL GROSS WT.
TRACTOR	31,600 (14330KG)	25,100 (11390KG)	56,700 (25720KG)	35,800 (16240KG)	56,250 (25650KG)					
TRAILER	3,470 (1570KG)	16,980 (7690KG)	20,450 (9260KG)	35,800 (16240KG)	112,950 (25520KG)					
TOTAL TARE	35,070 (15900KG)	42,080 (19080KG)	77,150 (34980KG)	35,800 (16240KG)	112,950 (25520KG)					
PAYLOAD	21,382 (9700KG)	104,618 (47460KG)	126,000 (57160KG)	114,000 (51720KG)	240,000 (51240KG)					
TOTAL G.T.W.	56,452 (25612KG)	146,698 (66540KG)	203,150 (92152KG)	149,800 (67960KG)	352,950 (108870KG)					
RATED TIRE CAPACITY	70,760 (32100KG)	141,520 (64000KG)	212,280 (96100KG)	141,520 (64000KG)	353,800 (160100KG)					

## MACK TRUCKS, INC.

ALLENTOWN, PA.

"THE TRUCK CAPITAL OF THE WORLD"  
 MACK TRUCKS WORLDWIDE LIMITED

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

There being no annual 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. Illustrations are not necessarily a representation of standard specifications.

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# MODEL M-50AXT-120BDT

## STANDARD EQUIPMENT (Cont'd)

### WHEELS:

Type ..... Cast, spoke

### TIRES, (Tubeless):

Size (Front) ..... 24.00-55 (42PR.)  
Rims (Front) ..... 17.00  
Size (Rear) ..... 24.00-55 (42PR.)  
Rims (Rear) ..... 17.00  
Type, Tread (Front & Rear) Log  
Model, type ..... SG11541, Hydrostatic

### STEERING GEAR:

Steering wheel, diameter ..... 20"  
Power steering ..... Dual hydraulic booster

### CAB: (Mack)

Model ..... CA 45 (offset)  
Type ..... One man, heavy duty, closed. Cab offset to left of chassis centerline provides clear vision for driver to rear. Extended cab roof for windshield protection. Reverse slope windshield of Solex glass. Single dome light  
Width, overall ..... 50"

**INSTRUMENT PANEL:** Tachometer, single hand type; clock type engine hour meter; transmission and converter gauges; voltmeter; water temperature gauge; air pressure gauge; lube oil pressure gauge; master button; light switch; stop-start control; headlight-to-beam indicator light.

**CHASSIS EQUIPMENT:** Framing in synthetic enamel Mack springs; integral radiator guard; front and rear tow pins; air horn; hand control valve to operate trailer brakes; windshield wiper; Wig-Wag low air pressure indicator; air operated radiator shutters; rear view mirror, left side, modified channel type from bumper; Solex glass for windshield; twin headlights, stop-tail light; rim log wrench and handle.

### TRAILER: (120 BDT Model)

**Dimensions:**  
King pin to rear bumper ..... 43' 3"  
Overall width ..... 15' 2"  
Overall height (front) ..... 14' 8"  
Inside body length (at top) ..... 33'  
Inside body width (at top) ..... 14' 8"  
Inside body depth (at front) ..... 11' 4"  
Door opening (total) ..... 21' 0" x 6'  
Ground clearance ..... 18"  
Capacity, Struck ..... 152 cu. yd.  
Rated payload ..... 120 tons

**Type:** All welded hopper bottom dump with air operated, dual, clam shell doors including automatic positive closed position lock.

**Structure:** All body sheets and formed structural members of ultrastrength (100,000 psi) heat treated milled plate. Door framing, body chords and rear suspension framing of rolled A-7 structural shapes.

**Plate Gauge**  
Vertical sides and end plates ..... 3/16"  
Side slope plates ..... 1/4"  
End slope plates ..... 3/16" and 3/8"  
Formed shapes ..... 1/4"

**Running Gear:**  
Axle (Mack) ..... RA 1304  
Heat treated 10" drawn steel center with welded heat treated cast spindles. Diameter at inner bearing: 9.25", at outer bearing: 7.75"

**Brakes:** ..... Stopmaster: 20" x 10", 1088 sq. in.  
Hydraulic actuated from individual air/hydraulic power packs located in trailer frame. (All brake and wheel equipment interchangeable with similar details used on M-50AXT tractor.)

**Wheels:**  
Type ..... Cast spoke  
Tires (Tubeless) ..... 24.00-55 (42P), 17.00 Rims

**Suspension:** Semi-rigid rubber block insulators between axle beam and frame.

**TRAILER EQUIPMENT:** Trailer door control valve and piping; Trailer lock, Darby double universal type mounted on special cross member designed integral with tractor frame.

## OPTIONAL EQUIPMENT

### ENGINE, (Diesel)

Make & Model	Detroit Diesel 16V71T1	Cummins VTA1710C
No. of Cylinders	16	12
Bore & Stroke	4 1/2" x 5"	5 1/2" x 7"
Displacement, cu. in.	1136	1710
W.P. @ gov. r.p.m.	800 @ 2300	800 @ 2100
Max. torque, lbs. ft. @ r.p.m.	2150 @ 1600	2200 @ 1600

### EQUIPMENT:

Brake, alcohol evaporator;  
Cab heater (25,000 hrs.) with defroster;  
Engine high water temperature and low oil pressure alarm;  
Hubometer, mounted on left rear wheel hub;  
Spin pin;  
Tachograph, in place of standard tachometer;  
Trailer electrical connections;  
Trailer electric stop and tail light;  
Rear fenders, mounted over the front top quarter of the rear wheels.

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