



**MACK[®]
TRUCKS**

MODELS

**DM-600SX
SERIES**

STANDARD EQUIPMENT 6-Wheel Dump Truck

(Based on Model DM-611SK)

WHEELBASE	179" (LF 168", CA 114")
ENGINE: (MACK)	1ET073
Type	Turbocharged, 6 cyl.
Bore & Stroke	4 1/8" x 6"
Plateau displacement, cu. in.	672
*Brake horsepower at 2100 rpm	260
*Maximum torque at 1600 rpm	775 Ft. Lb.
Lube oil filter	Full-flow twin, spin-on disposable type
Air cleaner (Donaldson)	Est. 13 (Dry type)
Radiator frontal area	1,000 sq. in.
Fuel pump	Multiple plunger
Coolant conditioner	Spin-on disposable type
Thermostat (Set to open)	170°F
*Based on performance of SAE standard conditions of 500 ft. altitude & 85°F air intake temperature.	
†Not certified for state of California.	
FUEL TANK	50 gal., L.H. steel rec., two step
Starting system	12 Volt
Batteries (Group 48)	(4) 6 Volt
Plates per cell 23; Amp. hr. @ 20 hr. rate	165
CLUTCH:	CL 89 or CL 77
Make	Spicer Lipé
Size	14", 2-plate 14", 2-plate
Lining	Organic Organic
Area of engagement	423 sq. in. 423 sq. in.
TRANSMISSION: (MACK)	TRQ 7229
Type	11-spd., overgear, quadruplex
FRONT AXLE: (MACK)	FAW 617C
Capacity	10,000 lbs.
BOGIE: (MACK)	SWS 681C
Capacity	55,000 lbs.
Carrier	CRDPC 112 & CRD 113
Ratios	4.17, 4.50, 4.75, 5.13, 5.73, 6.34, 7.00, 7.42, 8.24, 9.15
*Note: 54" Super spacing.	

SPRINGS:	*FRONT	REAR
Ground lead rating	(FAW 617C) 20,000 lbs.	(SWS 681C) 55,000 lbs.
Size	50 1/2" x 3 1/2"	54" x 5"
Leaves, No. & thickness	13 @ .430"	13 @ .788"
*Not applicable on Mixer Application.		

BRAKES: Air—MACK	12.0 CFM-M/R EL-3000 Air compressor
Front (cam type)	15 1/2" x 5" (314 sq. in.)
Rear (cam type)	18" x 7" (1,000 sq. in.)
Auxiliary	Spring Loaded Type

AIR RESERVOIR	One (two compartment)
Location	Right frame rail
Capacity (Gals.)	8,790 cu. in.

WHEELS and TIRES:	
Wheels	Cast, spoke
Tires	*11.00-22 (12P), S.D Rims
*Overall width exceeds 96"	

STEERING GEAR: Model	SGP 49
Steering wheel diameter, ratio	22", 20:1:1

POWER STEERING:	Integral
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FRAME:			
	<u>Size</u>	<u>Material</u>	<u>Section Modulus</u> <u>RSM (in. Lbs. Per Rail)</u>
	135 1/2" x 3 1/2" x 5/8" (1/4" inside channel)	Heat treated 110,000 PSI Minimum Yield Strength Steel	31.2 3,430,000

CAB	CA 481 (no rider seat)
Type (100" 380)	Steel—two man

STANDARD CHASSIS WEIGHT	EST. 183
Front 7,930, Rear 10,240, Total 18,170	

MANDATORY OPTIONAL EQUIPMENT

- *FMSS 121 Brake System
- *11.00-22 (14P) Dual Rear Tires
- Automatic reset circuit breakers
- Back up lamp
- Bumper extended type
- Combustion heater and defroster 37,500 BTU
- Cab, roof vent, two way
- Combustion stove, tail, & rear turn signals (2)
- Engine stop control
- Headlights
- Hood & fenders, unitized fiberglass (fits forward)

CHASSIS EQUIPMENT

- Open, electric, single beam
- LED & clearance lamps
- Low air pressure buzzer
- Rear view mirrors, two West Coast type (black enamel finish)
- Seat belts
- Side marker lights & reflectors
- Steering column, adjustable
- Sun visor, left side
- Tachometer, single hand type
- Tow hooks, front
- Tone signals, front & rear (with 4-way flasher)
- Under front exhaust
- Voltmeter

- Warning light (for spring loaded exc. brakes)
- Wheel wrench and handle
- Windshield glass, Solex
- Windshield washers
- Windshield wipers, air, dual, single motor

*DM-600SX requires a minimum tire size 11.00-22 (14P) with a ground lead rating in excess of 25,000 lbs., excluding chassis from FMSS 121 anti-wheel lock system requirements until September 1, 1977.

MACK TRUCKS, INC., ALLENTOWN, PENNSYLVANIA

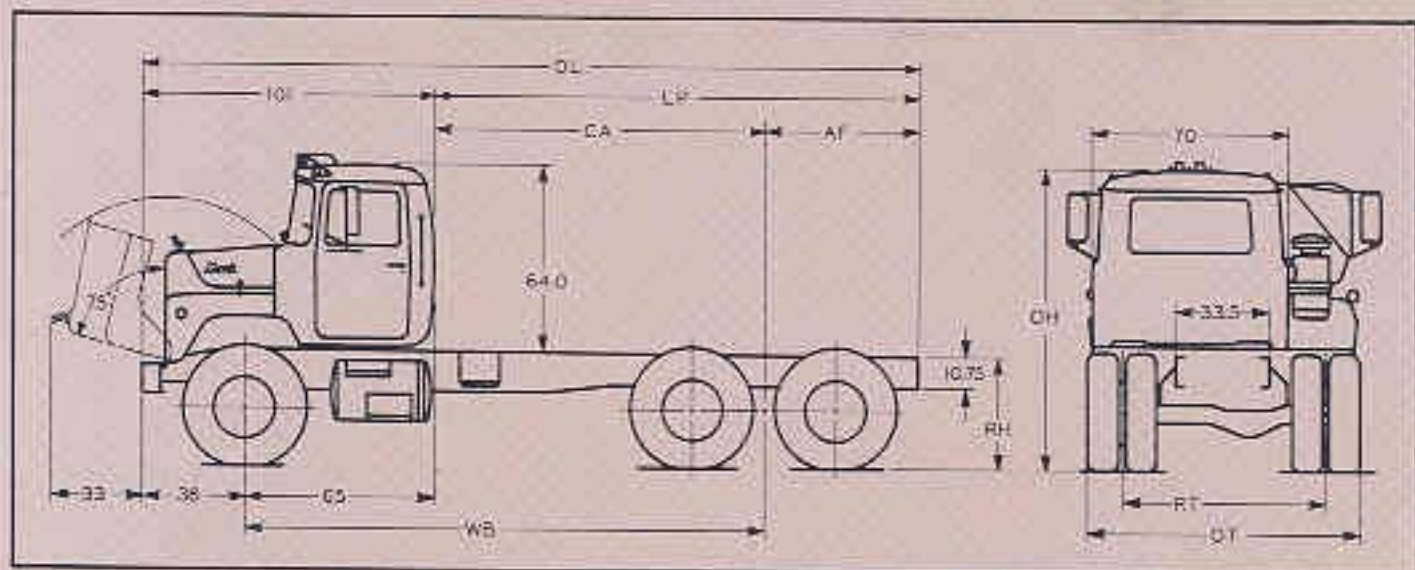
— ONE OF THE SIGNAL COMPANIES

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WB	LP	CA	AF	OL	TURNING CIRCLE DIA. (Outer Edge of Tire) APPROX.	
					LEFT	RIGHT
179"	168"	114"	54"	269"	64"	67"
155"	160"	100"	60"	261"	61"	63"
179"	184"	114"	70"	285"	64"	67"
185"	184"	120"	64"	285"	60"	69"
185"	200"	120"	80"	301"	66"	69"
191"	184"	120"	58"	285"	67"	70"
191"	200"	126"	74"	301"	70"	73"
201"	190"	136"	54"	291"	70"	73"
201"	200"	136"	64"	301"	70"	73"
217"	200"	152"	49"	301"	74"	78"

TIRE SIZE	OH	RH		OT	RT
	APPROX.	EMPTY	LOADED		
11.00-22	109.2	42.7	40.9	97.4	71.1
11.00-24	110.2	43.7	41.9	99.0	73.6
12.00-24	111.0	44.3	42.6	104.4	77.00

Chassis dimensions are in inches and are for standard chassis unless otherwise denoted. Frame heights are subject to variation: 1" empty, 1/2" loaded.



OPTIONAL EQUIPMENT • DM600SX Series

See Power Train Combinations

ENGINE	MODEL	BORE & STROKE	No. of CYL.	DISP. CU. IN.	*BHP @ RPM	*MAX. TORQUE @ RPM	RADIATOR SQ. IN.
**ETAZ 673A	DM 612SX	4 $\frac{1}{8}$ " x 6"	6	672	**315 @ 1800	**1050 @ 1450	1,000
TENDT 675 †TENDT 675C	DM 685SX	4 $\frac{1}{8}$ " x 5"	6	672	237 @ 1700 (Max.) 235 @ 2100 (Gov'd.)	906 @ 1200	1,000
††TENDT 676	DM 686SX	4 $\frac{1}{8}$ " x 6"	6	672	**285 @ 1800 (Max.) **283 @ 2100 (Gov'd.)	**1080 @ 1200	1,000

*Based on performance at sea level & 60°F dry air intake temperature.
 **Based on performance of SAE standard conditions of 500 ft. altitude and 85°F air intake temperature.
 †Not certified for State of California.
 ††Certified for State of California.

WHEELBASE 165"; 179"; 185"; 191"; 201"; 217"

CLUTCH:

CL 721 "DYNAMAX" 4-plate (ORG.) Wet	578 sq. in.
CL 79 Spicer, 14" 2-plate (CER.)	144 sq. in.
CL 76 Lipe, 14" 2-plate (CER.)	125 sq. in.
CL 79 Spicer, 15 $\frac{1}{4}$ " 2-plate (CER.)	144 sq. in.
*CL 82 Spicer 14" 2-plate (ORG.)	423 sq. in.
*CL 83 Spicer 14" 2-plate (CER.)	144 sq. in.

NOTE: All clutches are pull type, except CL 721 which is a Rockford push type.

*Mandatory with flywheel PTO

LININGS: CER.—CERAMIC; ORG.—ORGANIC

FRONT AXLE: (MACK) (FAW 617C) 20,000 lbs. capacity

Springs:

Application Dumper

Application	(Std.)	(Opt.)	(Opt.)	(Opt. H.D.)
Multileaf suspension				
Ground load ratings	20,000 lbs.	18,000 lbs.	16,000 lbs.	20,000 lbs.
Size	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "
Leaves, No. & Thickness (L.H. & R.H.)	13 @ .499"	11 @ .499"	10 @ .499"	14 @ .499"
Taperleaf suspension (Opt.)	(Opt.)	(Opt.)	(Opt. H.D.)	
Ground load ratings	20,000 lbs.	18,000 lbs.	20,000 lbs.	
Size	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	
Leaves, No. & Thickness (L.H. & R.H.)	3 @ .325"	4 @ .810"	4 @ .325"	
Pack thickness @ axle spring pad	3.264"	3.772"	4.232"	

Application Mixer

Application	(Std.)	(Opt.)	(Opt.)	(Opt. H.D.)
Multileaf suspension				
Ground load ratings	20,000 lbs.	18,000 lbs.	16,000 lbs.	20,000 lbs.
Size	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "
Leaves, No. & Thickness	L.H.—14 @ .499" R.H.—11 @ .499"	13 @ .499" 10 @ .499"	11 @ .499" 8 @ .499"	14 @ .499" 14 @ .499"
Taperleaf suspension (Opt.)	(Opt.)	(Opt.)	(Opt. H.D.)	
Ground load ratings	20,000 lbs.	18,000 lbs.	20,000 lbs.	
Size	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	50 $\frac{1}{4}$ " x 3 $\frac{1}{2}$ "	
Leaves No. & Thickness	L.H.—4 @ .925" R.H.—4 @ .810"	3 @ .925" 4 @ .810"	4 @ .925" 4 @ .810"	
Pack thickness @ axle spring pad	L.H.—4.232" R.H.—3.772"	3.264" 3.772"	4.232" 4.232"	
Brakes: Cam type		16 $\frac{1}{2}$ " x 5" (314 sq. in.)		

TRANSMISSION: See Power Train Combinations

Transmissions	Trans. Description
*TRXL 107 (MACK)	6 spd., Lo-Range
*TRXL 107/1 (MACK)	6 spd., Lo-Lo Range
TRXL 107 (MACK)	10 spd., Direct
*TRXL 107/ (MACK)	12 spd., Direct
RT(O)F 12513, FULLER	13 spd., Roadranger
RT(O)F 12515, FULLER	15 spd., Roadranger
*TR 7220 (MACK)	5 spd., Overgear, Main

w/ Spicer R8031C 3 spd., Auxiliary
 or w/ Spicer R8341C 4 spd., Auxiliary
 *Torque limiting device mandatory.
 **Minimum WB 175"

BOGIE: (MACK)

SWS 681C	55,000 lbs. capacity
Carrier	CRDPC 112 & CRD 113
Ratios	4.17, 4.50, 4.76, 5.13, 5.73, 6.34, 7.00, 7.49, 8.24, 9.15
Power Divider	Inter-Axle
Springs:	(Std.) (Opt. A/S)
Ground load rating	55,000 lbs. 55,000 lbs.
Size	54" x 5" 54" x 5"
Leaves, No. & Thickness	13 @ .788" 10 @ 1.00"
Brakes: Cam type	18" x 7" (1000 sq. in.)
SWW 581C	55,000 lbs. capacity
Carrier	CRDPC 112 & CRD 113

Ratios	4.17, 4.50, 4.76, 5.13, 5.73, 6.34, 7.00, 7.49, 8.24, 9.15
Power Dividers	Inter-Axle
Walking Beam	(Std.)
Ground load rating	55,000 lbs.
Material	Fab. steel, I-Beam section
Load centers	54"
Brakes: Cam type	18" x 7" (1,000 sq. in.)
SWS 592C	65,000 lbs. capacity
Carrier	CRDP 95 & CRD 96
Ratios	5.22, 5.88, 6.73, 7.58, 8.27, 9.10, 10.11
Power Divider	Inter-Axle
Springs:	(Std.) (Opt. A/S)
Ground load rating	65,000 lbs. 65,000 lbs.
Size	58" x 5" 58" x 5"
Leaves, No. & Thickness	10 @ .999" 8 @ 1.250"
Brakes: Cam type	18" x 7" (912 sq. in.)
SWW 592C	65,000 lbs. capacity
Carrier	CRDP 95 & CRD96
Ratios	5.22, 5.88, 6.73, 7.58, 8.27, 9.10, 10.11
Power Divider	Inter-Axle
Walking Beam	(Std.)
Ground load rating	65,000 lbs.
Material	Fab. steel, I-Beam section
Load centers	58"
Brakes: Cam type	18" x 7" (912 sq. in.)

*Minimum tire size, 11.00-24

Springs: A/S—Anti-sway springs

AIR CLEANER: See Data Book Engine Section

ELECTRICAL SYSTEM: Starting *24 Volt

*Mandatory 35 Amp. Leece Neville or 90 Amp. Delco Alternator.
 Alternator 12 Volt, 85 Amp. (Leece Neville)
 12 Volt, 75 Amp. (Delco)
 12 Volt, 90 Amp. (Delco)

WHEELS and TIRES:

Cast spoke or steel disc 8.0, 8.5 Rims
 Tires & Rims 11.00-24(12) 8.0; 12.00 24(14) 8.5
 NOTE: 12.00-24 disc available with SWS 592, SWW 592

FUEL TANKS: The following in place of STANDARD:

65 gal., L.H., steel, rect., two step
 80 gal., L.H., steel, rect., two step
 The following in addition to STANDARD or above optional tank:
 not available with front end mechanical mixer drive:
 40 gal., R.H., steel, rect., step

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