

## STANDARD SPECIFICATIONS

(Based on Model RD690SX, 6x4 Truck)

### ENGINE: MACK, EM7-300 E-TECH

Horsepower, 300 [224 kW] @ 1750 Gov'd. RPM  
Peak Horsepower, 310 [231 kW] @ 1500 RPM  
Torque, 1425 lb./ft. [1 932 N·m] @ 1020 RPM  
V-MAC - Total Vehicle Electronics System  
Lube Oil System, Full Flow ESI+  
Extended Service Interval 16,000 miles [25 749 km]  
Centri-Max® Centrifugal Oil Filter  
Flywheel Housing, Aluminum  
Silicone Hoses and Tubing on Engine  
Air Compressor, 13.2cfm [6.3 l/s] min. rtg.  
Electrical: 12 Volt Starter  
Batteries: (3) Bulldog 12-volt M/F Type, 625 CCA  
Total 1875 CCA  
Alternator, 12V 100A, Delco 21SI  
Air Intake System:  
Air Cleaner, 13" [330 mm] Single Element  
Dry Type, External Cowl Mounted  
Air Restriction Monitor, Grad. Lock-Up Type (Air Cleaner Mtd.)  
Exhaust Vertical w/Heat Shield  
Cooling System: Shutterless Type  
Radiator, 1,000 sq. in. [6 452 cm<sup>2</sup>] Frontal Area  
Anti-Freeze to -10°F [-23°C]  
Fan Drive, Viscous  
Poly-V Fan Belt w/ Auto. Tensioner  
Hoses, Heater & Radiator, Silicone  
Coolant Conditioner, Spin-On

### CLUTCH: SPICER, CL798

15.5" [394 mm] Ceramic  
Dampened Disc, 2-Plate, Coaxial Spring

### TRANSMISSION: MACK, T2060

6 Speed, Ratios: 9.02 Low, 0.60 High  
P.T.O. Side Gears (RH & LH)  
Driveline: Dana (Spicer) 1710HD Main  
and 1710HD Interaxle w/Coated Splines

### CAB: MACK CONVENTIONAL, CA49

#### Interior Features:

Trim Level II; Color, Silver Gray  
Adjustable Steering Column  
Air Conditioner (Red Dot) with Integral Heater  
w/R134a Refrigerant

#### Seats:

Driver's Bostrom Talladegha 914 (Mid-Back)  
Rider's, Non-Suspension (Mid-Back)  
Seat Belts - Driver's and Rider's  
Lap & Shoulder w/Seat Belt Retractor  
& "Komfort Latch"

Overhead Console Including:  
Location for Optional Radio

Ash Tray  
Cigar Lighter  
CB - 5-Way Binding Posts  
Coat Hook  
Dispatch Box  
Dome Light w/Self-Contained Switch  
Steering Wheel, 18" Dia. 2-Spoke  
Sun Visor - LH & RH  
Floor Mats, Rubber w/Closed Cell Vinyl  
Nitrile Backing

# MACK

## RD600SX SERIES

## CHASSIS



- Conventional Chassis
- 6-Wheel Truck
- 79" [2 007 mm] Front Axle to Back-of-Cab

The *RD600SX* conventional model is a 6 x 4 truck that has the load capacity and stamina for the toughest of jobs, ideally suited for the construction and refuse industry as well as logging, coal hauling, oil field and utility vehicle. Axle capacities available are up to a 20,000 lb. [9 072 kg] front and a 65,000 lb. [26 309 kg] tandem rear. Also available is an integral front frame extension for heavy duty snow removal. The *RD600SX* offers the required muscle and variety for those heavy hauling on-off highway applications.

### STANDARD

**ENGINE:** MACK EM7-300 E-TECH  
310 HP [224 kW] Peak Horsepower

**TRANSMISSION:** MACK T2060  
6 Speed, Overgear

**FRONT AXLE:** MACK FAW18  
18,000 lb. [8 165 kg] Capacity

**REAR AXLE:** MACK SS58  
58,000 lb. [26 309 kg] Capacity  
Suspension: Camelback Spring



Mack Trucks, Inc., Allentown, Pennsylvania  
[www.macktrucks.com](http://www.macktrucks.com)

**STANDARD SPECIFICATIONS**

(Continued)

**CAB:** continued

Interior Features: Operational  
T.M.C. Recommended Instrument Panel  
Air Pressure Gauge  
Voltmeter  
Fuel Level Gauge  
Engine Oil Pressure  
Engine Coolant Temperature Gauge  
Low Air Pressure Indicator (Light and Buzzer)  
Speedometer/Trip Odometer, Electronic  
Tachometer w/Hourmeter, Electronic  
High Beam Indicator  
Parking Brake "On" Indicator  
Key Type Starting and Shutoff  
Courtesy Light Switch (Head and Clearance)  
Directional Signal Switch, Manual Canceling

Exterior Features:  
Welded Steel Shell Galvanized  
MACK Rust Preventative Procedures  
Tinted Safety Glass; Windshield, Side & Rear  
Vents (screened)  
Cowl - LH One Way Type;  
Upper Fresh Air Inlet for Heater  
Roof - Two Way Type  
Windshield Wipers: 2 Speed Electric Dual Arms,  
w/Arm Mtd. Washers (Elec.),  
w/5 qt. [4.7 L] Reservoir  
Mirrors, West Coast Bulldog Br. Finish, RH & LH  
w/Stainless Steel Arms & Brkts.  
Cab Step RH - Frame Mtd.  
Daytime Running Lights  
Identification & Clearance Lamps (5)  
Side Markers, Lamps and Reflectors  
Horns, MACK Rectangular Single Trumpet  
Air Horn and Electric Single-Tone  
Doors, Galvanized Steel w/Roll-Up Windows  
and Vent Windows  
Grab Handles (Stainless Steel), RH & LH Behind Door  
Cab Mounting: Trunnion Front, Air Suspended Rear

**HOOD & FENDERS: FIBERGLASS**

One Piece Molded from Thermo Plastic Olefin  
w/Frame Mtd. Fender  
Fender Extensions  
Tilts Forward 75°  
Grille, Hood Mtd., Metal, Argent Silver  
Headlamps, Halogen, Single Rectangular w/Lexan  
Lens (Replaceable Bulb)  
Front Turn Signals Fender Mtd.  
Transistorized Flasher (Grotronic 12-44690)

**FRAME:**

Low Alloy Heat Treated Steel, 110,000 psi [759 MPa]  
Cross Section: 10.625" x 3.25" x .313" [270 x 83 x 8 mm]  
Frame Reinforcement: Inside Channel .25" [6 mm]  
Section Modulus: 23.60 in.<sup>3</sup> [387 cm<sup>3</sup>]  
RBM (per rail): 2,600,000 lbs. in. [294 000 N·m]  
WHEELBASE: 227" [5 766 mm]  
LOAD PLATFORM: 240" [6 096 mm]  
CAB TO AXLE: 148" [3 759 mm]  
AFTERFRAME: 92" [2 337 mm]  
BUMPER: Steel, Swept Back Channel  
92.6" x 10" [2 352 x 254 mm], Extended Mtg.  
Bumper to Back of Cab: 117" [2 972 mm]  
Towing, Eyes

**FUEL TANKS:**

Single 55 gal. [208.2 L] LH Mounted  
Steel, 24" [610 mm] Dia., Step Type

**FRONT AXLE: MACK, FAW18**

18,000 lb. [8 165 kg] capacity  
Suspension: MACK Taperleaf w/Shock Absorbers  
18,000 lb. [8 165 kg] Ground Load Rating  
34.5" [876 mm] Spring Centers  
Oil Seals Chicago Rawhide  
Brakes, "S" Cam 16.5" x 5" [419 x 127 mm]  
Meritor "Q" Brakes w/o Dust Shields  
Slack Adjusters, Haldex, Automatic  
Steering: Sheppard 492S, Integral Power, Ratio 20.1:1  
Wheel Equipment: 8.25" [210 mm] Rim,  
Cast Spoke Wheel

**REAR AXLE: MACK, SS58**

58,000 lb. [26 309 kg] Capacity  
Carrier: Malleable, CRDPC112/CRD113 Ratio: 5.73  
Suspension: MACK Camelback Spring  
58,000 lb. [26 309 kg] Ground Load Rating  
54" [1 372 mm] Axle Wheelbase  
Oil Seals Chicago Rawhide  
Brakes, "S" Cam 18" x 7" [457 x 178 mm]  
Meritor "Q-Plus" Brakes with Dust Shields  
Slack Adjusters, Haldex Automatic  
Auxiliary Spring Brake Chambers, MGM  
30/30 Double Diaphragm Type  
Mechanical Spring Release, 4 Units, 2 Per Axle  
Wheel Equipment: 8.25" [210 mm] Rim,  
Cast Spoke Wheel

**TIRES: FRONT (singles) & REAR (duals)**

Goodyear Unisteel G286  
12R24.5, 16 Ply

**AIR/BRAKE:**

ABS (Anti-Lock Brake System)  
Dual Air Brake System  
Air Reservoirs: 2, 1 Supply Tank Mounted Outside LH  
Frame Rail and 1 Dual Tank Compartment Primary/  
Secondary Tank Mounted Under LH Frame Rail  
Capacity 5,961 in.<sup>3</sup> [97.6 L]  
Air Dryer, Bendix AD-9, Heated

**ELECTRICAL:**

2 Battery Boxes & Covers, Painted Steel  
Chassis Electrical: Negative Ground, 12V  
Electrical Circuits and Bulbs; Fuse Protected  
Circuits; Breaker Protected Headlamp and  
Windshield Wiper Circuits; Rear Lighting,  
2 Combination Stop, Tail Directional & Back-Up  
Lights

**PAINT:**

Cab, Hood and Fenders:  
Color: MACK White, High Gloss  
Chassis Running Gear:  
Color: MACK Black (Urethane)

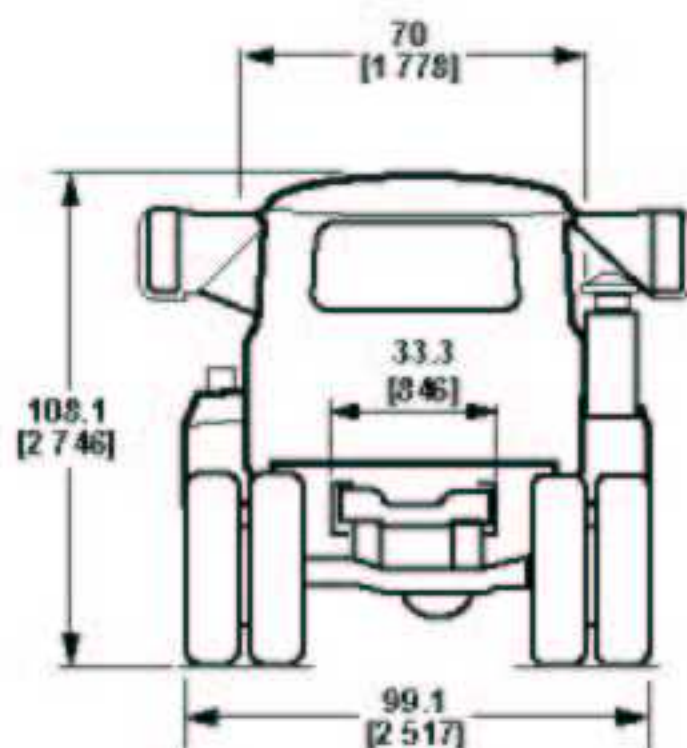
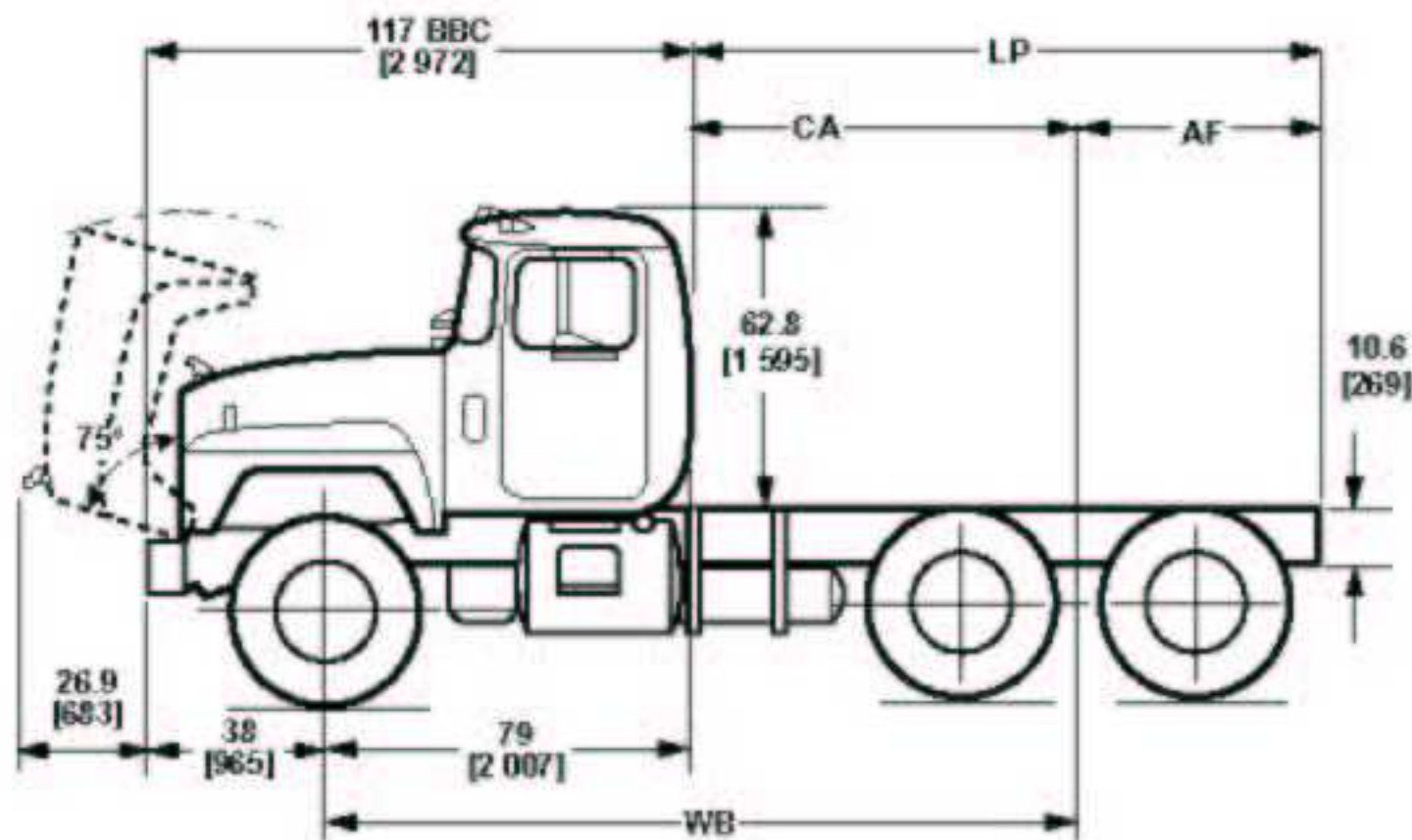
**CHASSIS WEIGHT: (Estimated)**

Front: 9,300 lbs. [4 218 kg]  
Rear: 10,514 lbs. [4 769 kg]

## OPTIONAL EQUIPMENT

ENGINES	
MODEL	*HORSEPOWER @ GOV'D. RPM
<b>MACK</b>	
EM7-275 E-TECH	275 HP [205kW] @ 1750 <i>285 HP [212kW] @ 1500</i>
EM7-300 E-TECH	300 HP [224kW] @ 1750 <i>310 HP [231kW] @ 1500</i>
E7-300 E-TECH	300 HP [224kW] @ 1950
E7-350 E-TECH	350 HP [261kW] @ 1800
E7-400 E-TECH	400 HP [298kW] @ 1800
E7-427 E-TECH	427HP [318kW] @ 1800
E7-460 E-TECH	460HP [343kW] @ 1800

\*Italics = Peak horsepower other than gov'd. RPM



TRANSMISSIONS		
MODEL	SPEEDS	RATIOS (LOW/HIGH)
<b>MACK</b>		
T2050	5	5.24/0.60
T2060	6	9.02/0.60
T2060A	6	7.54/0.714
T2070(B)	7	14.16/0.60
T2080(B)	8	20.08/0.60
T2090	9	10.69/0.71
T2100	10	8.52/0.77
TRTXL 1070B	12	14.44/0.78
T2130(B)	13	13.91/0.71
T2180(B)	18	13.91/0.71
<b>FULLER</b>		
RTXF-11609B/121609B/13609B/ 14609B/16709B	9	12.57/0.73
RTXF-11709H/14709H/16709H	9	10.55/0.73
FROF-13210B/14210B/15210B/ 16709B	10	11.06/0.75
FROF-13210C/14210C/15210C	10	12.69/0.74
RTO-14908LL/16908LL	10	14.56/0.74
RTOF-14908LL/16908LL	10	14.56/0.74
RTO-14909MLL	11	26.08/0.73
RTLOF-14713A/14913A/16713A/ 16913A	13	12.31/0.73
RTOF-14915/16915	15	13.29/0.79
RTLOF-14718B/14918B/16718B/ 16918B	18	14.40/0.73
<b>ALLISON</b>		
HT740/740RS	4	3.69/1.00
HT750DR/750DR-RS	5	7.97/1.00
HD4060P	5	3.51/0.74
HD4560P	5	4.70/0.76
HD4060P	6	3.51/0.74
HD4560P	6	4.70/0.76

AXLES		
CAPACITY	MAKE	MODEL
<b>FRONT AXLES</b>		
12,000 lb. [5 443 kg]	MACK	FAW12
14,300 lb. [6 486 kg]	MACK	FAW14.3
14,600 lb. [6 623 kg]	MERITOR	FG941
18,000 lb. [8 165 kg]	MACK	FAW18
20,000 lb. [9 072 kg]	MACK	FAW20
	MERITOR	FLW941
<b>TANDEM REAR AXLES</b>		
58,000 lb. [26 309 kg]	MACK	S58
65,000 lb. [29 484 kg]	MACK	S65

**OPTIONAL EQUIPMENT**

(Continued)

**FRAME:****Optional .375" Frame with Reinforcement**

Rail Dimensions: 10.75" x 3.25" x .375" [273 x 83 x 10 mm]

.24" [6 mm] Steel Inside Channel Reinforcement

Section Modulus: 26.06 in.<sup>3</sup> [426 cm<sup>3</sup>]

Resisting Bending Moment, RBM: 2,870,000 lbs. in. [324 000 N·m]

**20" [508 mm] Front Frame Extension for Snow Plow Mount**

(Continuation of Parent Frame)

Frame Included w/20" Extension:

Rail Dimensions: 10.62" x 3.25" x .375" [270 x 83 x 8 mm]

with .25" [6 mm] Steel Inside Channel Reinforcement

Section Modulus: 23.79 in.<sup>3</sup> [390 cm<sup>3</sup>]

Resisting Bending Moment, RBM: 2,620,000 lbs. in. [296 000 N·m]

**Wheelbase Availability**

163" [4 140 mm] to 290" [7 366 mm]

**CAB, INTERIOR TRIM LEVELS:**

Trim Level I: Silver Gray Appealing Low Maintenance Interior

Trim Level II: Silver Gray Vinyl Type Interior with Padded and Carpeted Door Panels

Trim Level III: Black Vinyl Premium Interior with Color Coordinated Floor Carpet

**FUEL TANKS:** Left Hand or Right Hand Mounted**20" [508 mm] Diameter, Aluminum**

Capacities - Gal.[L]: 40 [151], 50 [189], 60 [227]

**24" [610 mm] Diameter, Aluminum or Steel**

Capacities - Gal.[L]: 45 [170], 55 [208], 75 [284], 95 [360], 110 [416], 130 [492]

**OTHER OPTIONAL EQUIPMENT:**

Air Cleaner, Inline Pre-Cleaner

Air Compressor Options

Air Dryer Options

Air Horns

Air Reservoirs, Aluminum

Air Reservoir, Increased Air Capacity

All Hose Chassis

Auxiliary Power Supply

Back-Up Alarm

Battery Box Cover, Aluminum

Battery Disconnect Switch

Battery Options

Body Power Cable

Brake Equipment Options

Bright Finish Equipment:

Air Reservoirs

Battery Box Covers

Bumper

Exhaust Systems

Fuel Tank Steps &amp; Straps

Grille

Mirrors and Brackets

Radiator Guard

Turn Signals, Front

Wheels, Disc

Wheel Nuts

Bug Screen

Bumper Options

CB Radio Options

Cab Accessories

Cab Heater, High Performance

Cab Mounting, Rear, Fixed

Chassis Keyed Alike

Clutch, Self-Adjusting

Coolant Protection to -40°F

Crankshaft Adapter (FEPTO)

Crossmember Options

Drain Valve, Automatic

Driveline, Increased Size

Electrical Circuit Breakers

Electrical Connections,

Waterproofed

Electrical (Engine):

Starter Options

Alternator Options

Engine Brake

Engine Cold Starting Aids

Engine Heaters

Exhaust Options

Fan Drive Options

Fifth Wheels and Related

Equipment

Flywheel Housing, Iron

Fog/Driving Lights

Frame Extensions, Front

Frame Rail Clearances

Fuel Heaters

Fuel System, Dual Draw

Gauges:

Air Application

Axle Oil Temperature

Engine Oil Temperature

Exhaust Pyrometer

Manifold Pressure

Transmission Oil

Temperature

Headlamp Options

Hood, Inspection Hatches

Hood, Western Style

Hubodometer

Identification/Clearance Light

Options

Inside/Outside Air Intake

Interwheel Power Divider

Inversion Valve, Spring Brakes

Mirror Options

Paint Designs (Cab &amp; Hood)

Power Divider Lockout

Power Steering Options

Power Take-Off Options

Power Window, RH Door

Radiator Guard, Plate Type

Radiator Shutters

Radio Options, Stereo/Cassette

Rain Cap, Exhaust

Rear Axle Carrier Options

Rear Engine Power Take-Off

(REPTO)

Rear Window, Sliding

Roof Reinforcement for Cab

(For Local Installation of Air

Deflector)

Seat Options, Driver &amp; Rider

Spotlight, Cab Mounted

Sun Visor, Exterior

Suspension, Front Axle:

Taperleaf or Multileaf

Spring Build-Up for Snow

Plow

Suspension, Rear Axle:

Camelback Spring

or Walking Beam

Synthetic Lubricants

Tandem Axle Optional Spacing

Tires

Trailer Access Packages

Trailer Connection Packages

&amp; Accessory Options

Trailer Hook-Up Lamp

Transistorized Flashers

Transmission Cooler

Tow Hooks, Rear

Windshield Wiper Options

Wheel Equipment:

Spoke, Steel or

Aluminum Disc

Hub &amp; Drum

Equipment

Wheel Flaps

Wheel Seals

OTHER COMPONENT  
OPTIONS MAY BE  
AVAILABLE UPON  
REQUEST.