

## STANDARD SPECIFICATIONS

(Based on Model RD890SX, 6x4 Truck)

### ENGINE: MACK, E7-350 E-TECH

Horsepower, 350 [261 kW] @ 1800 Gov'd. RPM  
Torque, 1360 lb./ft. [1 844 N·m] @ 1250 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, 1,400 sq. in. [9 032 cm<sup>2</sup>] Frontal Area  
Anti-Freeze to -10°F [-23°C]  
Fan Drive, Viscous  
Poly-V Fan Belt  
Hoses, Heater & Radiator, Silicone  
Coolant Conditioner, Spin-On

### CLUTCH: SPICER, CL798

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

### TRANSMISSION: MACK, T2090

9 Speed, Ratios: 10.69 Low, 0.71 High  
P.T.O. Side Gears (RH & LH)  
Driveline: Dana (Spicer) 1760 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

## RD800SX SERIES

### CHASSIS



- Conventional Chassis
- 6-Wheel Truck
- 78" [1 981 mm] Front Axle to Back-of-Cab

Designed for heavy hauling high gross loads, ideally suited for logging, oil field and coal hauling as well as severe service construction vehicles. Equipped with an extra strong frame, high capacity axles and components for maximum payload capabilities. Available with MACK or vendor engines ranging up to 500 horsepower. The "RD800" offers the ultimate in a work-horse type of chassis.

#### STANDARD

**ENGINE:** MACK E7-350 E-TECH  
350 HP [261 kW] Peak Horsepower

**TRANSMISSION:** MACK T2090  
9 Speed, Overgear

**FRONT AXLE:** MACK FAW20  
20,000 lb. [9 072 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  
Engine Shutoff, Key Type Control  
Courtesy Light Switch (Head and Clearance)  
Directional Signal Switch, Manual Cancelling

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.  
Daytime Running Lights  
Identification & Clearance Lamps (5) Bullet Type  
Side Markers, Lamps and Reflectors  
Horns, 2 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, Fixed Rear

**HOOD & FENDERS: STEEL**

Steel Butterfly Hood & Frame Mtd. Flat Fenders  
Severe Service Hood Support  
Rubber Fender Extensions  
Headlamps, 4 Rectangular Sealed Beam Type  
4" x 6.5" [102 x 165 mm]  
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: 23.79 in.<sup>3</sup> [390 cm<sup>3</sup>]  
RBM (per rail): 2,620,000 lbs. in. [296 000 N·m]  
WHEELBASE: 220" [5 588 mm]  
LOAD PLATFORM: 212" [5 385 mm]  
CAB TO AXLE: 142" [3 607 mm]  
AFTERFRAME: 70" [1 778 mm]  
CROSSMEMBER: Behind Cab, HD Welded Back to  
Back Type  
BUMPER: Steel, Swept Back Channel  
92.6" x 10" [2 352 x 254 mm], Extended Mtg.  
Bumper to Back of Cab: 129.3" [3 284 mm]  
Towing, Pin

**FUEL TANKS:**

Single 75 gal. [284 L] LH Mounted  
Steel, 24" [610 mm] Dia., Step Type

**FRONT AXLE: MACK, FAW20**

20,000 lb. [9 072 kg] capacity  
Suspension: MACK Multileaf Spring  
20,000 lb. [9 072 kg] Ground Load Rating  
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 592S 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, Anti-Sway Type  
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  
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: 4, One Supply Tank and One Primary Tank  
Mtd. Inside LH Frame Rail, One Primary Tank Mtd.  
Inside RH Frame Rail, One Secondary Tank Mtd.  
Under LH Frame Rail  
Capacity: 6,489 in.<sup>3</sup> [106.2 L]  
Air Dryer, Bendix AD-9, Heated  
All Hose Chassis

**ELECTRICAL:**

Battery Box & Cover, 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)

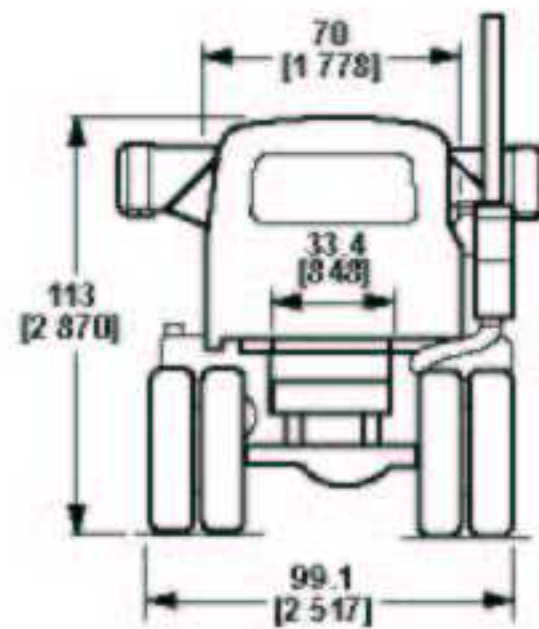
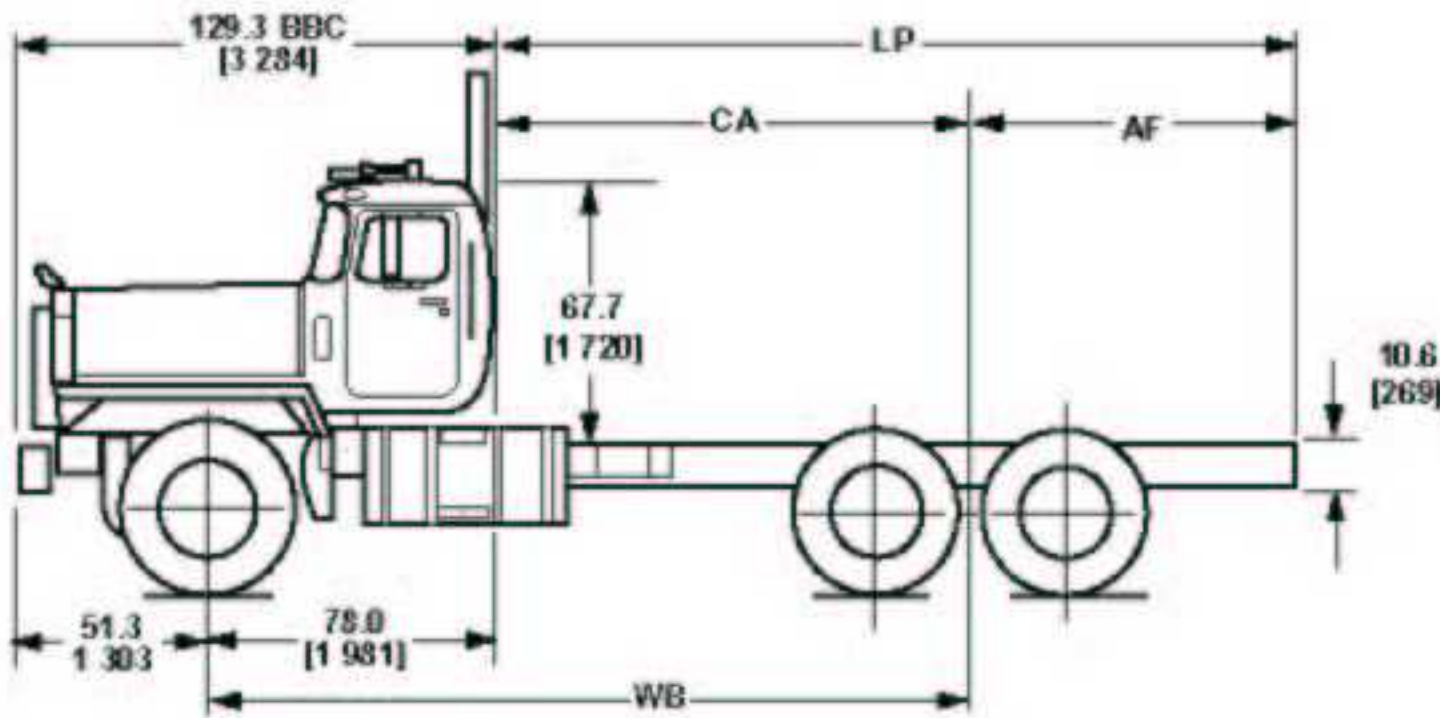
**CHASSIS WEIGHT: (Estimated)**

Front: 10,932 lbs. [4 959 kg]  
Rear: 9,994 lbs. [4 533 kg]

## OPTIONAL EQUIPMENT

ENGINES	
MODEL	*HORSEPOWER @ GOV'D. RPM
<b>MACK</b>	
E7-350 E-TECH	350 HP [261kW] @ 1800
E7-400 E-TECH	400 HP [298kW] @ 1800
E7-427 E-TECH	427 HP [318kW] @ 1800
E7-460 E-TECH	460 HP [343kW] @ 1800
E9-500 Mechanical	500 hp [373 kW] @ 1900
<b>CATERPILLAR</b>	
3406C	425 HP [316kW] @ 1900

TRANSMISSIONS		
MODEL	SPEEDS	RATIOS (LOW/HIGH)
<b>MACK</b>		
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>		
RT-14609A	9	12.65/1.00
RTX-14609B	9	12.56/0.73
RTX-14709H	9	10.55/0.73
RTO-14908LL/16908LL	10	14.56/0.74
RTLO-16713A	13	12.31/0.73
RTLO-14913A	13	12.31/0.73
RT-14915	15	16.94/1.00
RTO-14915/16915	15	13.29/0.79
RTLO-14718B/16718B	18	14.40/0.73
RTLO-14918B/16918B	18	14.40/0.73



AXLES		
CAPACITY	MAKE	MODEL
<b>FRONT AXLES</b>		
20,000 lb. [9 072 kg]	MACK	FAW20
23,000 lb. [10 433 kg]	MACK	FA23
<b>TANDEM REAR AXLES</b>		
58,000 lb. [26 309 kg]	MACK	S58
65,000 lb. [29 484 kg]	MACK	S65
70,000 lb. [31 752 kg]	MACK	SR70
80,000 lb. [36 288 kg]	MACK	SR80

## OPTIONAL EQUIPMENT (Continued)

### FRAME:

Standard Frame with .25" [6 mm] Outside Reinforcement (In Addition to Standard .25" [6 mm] Inside Reinforcement)

.25" [6 mm] Steel Inside Channel Reinforcement  
Section Modulus: 36.04 in.<sup>3</sup> [561 cm<sup>3</sup>]  
Resisting Bending Moment, RBM: 3,960,000 lbs. in. [425 000 N·m]

Standard Frame with .375" [10 mm] Outside Reinforcement (In Addition to Standard .25" [6 mm] Inside Reinforcement)

.375" [10 mm] Steel Inside Channel Reinforcement  
Section Modulus: 41.69 in.<sup>3</sup> [683 cm<sup>3</sup>]  
Resisting Bending Moment, RBM: 4,590,000 lbs. in. [519 000 N·m]

Optional .375" Frame with .25" [6 mm] Inside Reinforcement

Rail Dimensions: 13.375" x 3.25" x .375" [340 x 83 x 10 mm]  
.25" [6 mm] Steel Inside Channel Reinforcement  
Section Modulus: 36.56 in.<sup>3</sup> [599 cm<sup>3</sup>]  
Resisting Bending Moment, RBM: 4,020,000 lbs. in. [455 000 N·m]

Optional .375" Frame with .25" [6 mm] Inside and .312" [8 mm] Outside Reinforcement

Rail Dimensions: 13.375" x 3.25" x .375" [340 x 83 x 10 mm]  
.25" [6 mm] Steel Inside Channel Reinforcement and .312" [8 mm] Steel Outside Channel Reinforcement  
Section Modulus: 57.70 in.<sup>3</sup> [946 cm<sup>3</sup>]  
Resisting Bending Moment, RBM: 6,350,000 lbs. in. [718 000 N·m]

Wheelbase Availability

163" [4 140 mm] to 356" [9 042 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

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 Reservoir, Increased Air Capacity  
Auxiliary Transmissions  
Back-Up Alarm  
Battery Disconnect Switch  
Battery Options  
Body Power Cable  
Brake Equipment Options  
Bright Finish Equipment:  
    Battery Box Covers  
    Bumper  
    Exhaust Systems  
    Mirrors and Brackets  
    Radiator Guard  
    Wheels, Disc  
    Wheel Nuts  
Bumper Options  
Cab Accessories  
Cab Heater, High Performance  
Cab Mounting, Rear, Air Suspended  
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  
Flywheel Housing, Iron  
Fog/Driving Lights  
Frame Extensions, Front  
Frame Rail Clearances  
Fuel Heaters  
Fuel Water Separators  
Gauges:  
    Air Application  
    Axle Oil Temperature  
    Engine Oil Temperature  
    Exhaust Pyrometer  
    Manifold Pressure  
    Transmission Oil  
    Temperature  
Headlamp Options  
Hubodometer  
Identification/Clearance Light Options  
Inside/Outside Air Intake  
Interwheel Power Divider  
Mirror Options  
Paint Designs (Cab & 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 Window, Sliding  
Seat Options, Driver & Rider  
Spotlight, Cab Mounted  
Suspension, Front Axle:  
    Spring Build-Up RH  
Suspension, Rear Axle:  
    Multileaf Spring or Walking Beam  
Synthetic Lubricants  
Tires  
Trailer Access Packages  
Trailer Connection Packages  
    & Accessory Options  
Transistorized Flashers  
Transmission Cooler  
Tow Hooks, Rear  
Windshield Wiper Options  
Wheel Equipment:  
    Spoke or Steel Disc  
    Hub and Drum Equipment  
Wheel Seals

OTHER COMPONENT OPTIONS MAY  
BE AVAILABLE UPON REQUEST.

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