

STANDARD SPECIFICATIONS

(Based on Model MR690S 6x4 Truck)

ENGINE: MACK, AMI-300 ASET

Horsepower, 300 HP [224 kW] at 2100 Gov. RPM
Peak Horsepower, 325 HP [243 kW] at 1700-1900 RPM
Max. Torque, 1200 lb/ft [1 627 N•m] at 1300 RPM
V-MAC III—Total Vehicle Electronics
Lube Oil System, Full Flow ESI
Centri-Max® Ultra Centrifugal Oil Filter
Flywheel Housing, Aluminum
Silicone Hoses and Tubing on Engine
Turbocharge Heat Shield
Air Compressor, 13.2 cfm min. rtg.
Starting System Starter, 12-Volt
Batteries, (3) Mack 12-Volt M/F Type, 1950 CCA each
Alternator, 12V 100A, Delco (22 SI)
Air Intake System
Air Cleaner, 13" [330 mm] Single Element
Dry Type, Behind Cab Snorkel
Air Restriction Monitor, Grad. Lock Up Type
(Air Intake Mtd.)
Exhaust, Vertical w/Rain Cap
Cooling System—Shutterless Type
Radiator, 1,050 sq in [6 775 cm²] Frontal Area
Anti-Freeze to -10°F [-23°C]
Fan Drive, On-Off
Poly-V Fan Belt with Automatic Tensioner
PowerLeash Engine Brake

CLUTCH: EATON FULLER, CL7981

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

TRANSMISSION: MACK, TM-308

8-Speed, Ratios: 17.77 Low–0.71 High
PTO Side Gears (RH & LH)
Driveline: Meritor 17N HD Main &
Meritor 17N HD Interaxle w/Coated Splines

CAB: CONVENTIONAL, CA531, LOW COE

Interior Features:

Basic: Color: Same as Exterior Paint

Ash Tray
Cigar Lighter
CB—5-way Binding Post
Coat Hook
Glove Box
Heater with Integral Defroster
Dome Light w/Self-Contained Switch
Fixed Steering Column

Seats:

Driver's, Bostrom Talladegha 905L,
Air Susp. (Mid-Back)
Rider's, MACK Non-Suspension (Mid-Back)
Seat Belts—Driver's and Rider's
Lap & Shoulder w/Seat Belt Retractor
Sun Visor—LH & RH
Floor Mats, Rubber w/Closed Cell Vinyl Nitrile Backing

MACK

MR600S SERIES

CHASSIS



- Low COE
- Maneuverability
- Panoramic View
- Tight Wheel Cuts

The low-profile cabover "MR" was created specifically for the severe service refuse industry, however, it is also popular in other applications such as concrete pumper, mixer/dumper and other construction equipment. Its short bumper back-to-back of cab dimension and set-back front axle permit effective weight distribution for on and off-road hauling. The steel cab is fully galvanized. The fiberglass doors and huge glass areas contribute to easy entry/exit and panoramic visibility. The "MR" is literally designed around the task.

STANDARD

ENGINE: MACK AMI-300 ASET
325 HP [243 kW] Peak Horsepower

TRANSMISSION: MACK TM-308
8-Speed

FRONT AXLE: MACK FAW12
12,000 lb. [5 443 kg] Capacity

REAR AXLE: MACK SS38R
38,000 lb. [17 237 kg] Capacity
Suspension: Camelback Spring,
Anti-Sway Type



Mack Trucks, Inc., Allentown, Pennsylvania

STANDARD SPECIFICATIONS

(Continued)

CAB: continued

Interior Features: Operational (continued)

T.M.C. Recommended Instrument Panel
Air Pressure Gauge—Dual
Voltmeter
Fuel Level Gauge
Engine Oil Pressure Gauge
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
Directional Signal Switch, Manual Cancelling
Radio Accommodation Package

Exterior Features:

Welded Steel Shell, Galvanized
MACK Rust Preventative Procedures
Polyurea Fender for Chassis & Cab Section
Safety Glass Windows
Tinted Windshield
Windshield Corner Wind Deflectors
Windshield Wipers—Two, Pantograph Type
Bottom Mounted
Wiper Motor (Electric), (2), Two Speed
Windshield Washers, Electric, Wiper Mtd. With
7 qt. [6.6 L] Reservoir
Mirrors, West Coast Bulldog Bright Finish,
w/Stainless Bracing, RH & LH
Headlamps—(2) Conventional Sealed Beam Type
(7" [178 mm] Round)
Daytime Running Lights
Identification and Clearance Lamps (7)
Side Markers—Lamps and Reflectors
Front Turn Signals
Transistorized Flasher
Horns, Air, MACK Twin Trumpet Mtd. Under Cab &
Electric, (Single Tone)
Doors—Fiberglass with:
Sliding Type Windows (Non-Tinted)
Screened Vent in LH Door
Peep Window in RH Door
Grab Handles (Aluminum), RH & LH Behind Door
Rear Cab Glass (Non-Tinted)
Cab Mounting and Lift: Mounting 4-Point Fixed Type

HOOD & FENDERS:

Hydraulic Cab Lift, 60° Cab Tilt, Pump Mtd. on RH Fender
12" [305 mm] Mud Flaps Mtd. on Front Fender

FRAME:

WB—Wheelbase—173" [4 394 mm]
LP—Load Platform— 273" [6 934 mm]
CA—Cab to Axle—169.5" [4 305 mm]
AF—C/L Axles to End of Frame—103.5" [2 629 mm]
Frame Rails—Steel
Cross Section—13.25" x 3.25" x .3125" [337 x 83 x 8 mm]
Frame Reinforcement
Inside Rail 1/4" [6 mm] Steel Channel
Section Modulus—26.06 in³ [427.1 cm³]
RBM (per rail)—3,127,200 lb in [353 400 N•m]
Bumper: Steel, Swept Back Channel, 92.6" x 11.25"
[2 352 x 286 mm]
Extended Mounting
BBC—Bumper to Back of Cab—63" [1 600 mm]
Towing: Pin

FUEL TANKS:

Steel, 24" [610 mm] Dia. Step Type
Capacity/Location, 70 gal [265 L] RH

FRONT AXLE: MACK, FAW12

12,000 lb [5 443 kg] Capacity
Brakes, "S" Cam 16.5" x 5" [419 x 127 mm]
Meritor "Q-Plus" Brakes w/o Dust Shields
Slack Adjusters—Automatic
Suspension, MACK Multileaf Spring with 12,000 lb
[5 443 kg] Ground Load Rating
Integral Power Steering, Ratio 16.6:1
Wheel Equipment, 22.5" x 8.25" Accuride 10 Hole, 11.25"
Bolt Circle, Hub Piloted Steel Disc Wheels
Wheel Seals—Oil
Tires: 11R22.5 (singles)

REAR AXLE: MACK, SS38R

38,000 lb [17 237 kg] Capacity Axle
Carrier—Malleable—CRDPC92/CRD93
Suspension—Mack 38,000 lb [17 237 kg] Capacity
Camelback Spring, Anti-Sway Type
50" [1 270 mm] Axle Wheelbase
Oil Seals—Stemco Voyager
Brakes—"S" Cam 16.5" x 7" [419 x 178 mm]
Meritor "Q-Plus" Brakes w/o Dust Shields
Slack Adjusters—Automatic
Aux. Spring Brake Chambers,
30/30 Double Diaphragm Type,
Mechanical Spring Release; 4 Units,
2 mtd. each axle
Wheel Equipment, 22.5" x 8.25" Accuride 10 Hole, 11.25"
Bolt Circle, Hub Piloted Steel Disc Wheels
Wheel Seals—Oil
Tires: 11R22.5 (singles)

AIR/BRAKE:

ABS (Anti-Lock Brake System)
Dual Air Brake System
Air Dryer—Heated
Air Reservoirs—
Two, One Supply Tank and One Dual Tank Compartment
Primary/Secondary Tank Mounted Behind
Battery Box, Outboard LH Frame Rail
Capacity—5,100 in³ [83.6 L]

ELECTRICAL:

Painted Steel Battery Boxes & Covers
Chassis Electrical
Negative Ground
12-Volt Electrical Circuits and Bulbs
Fuse Protected Circuits
Breaker Protected Headlamp & Windshield Wiper Circuits
Rear Lighting, (2) Combination Stop, Tail Directional &
Back-up Lights

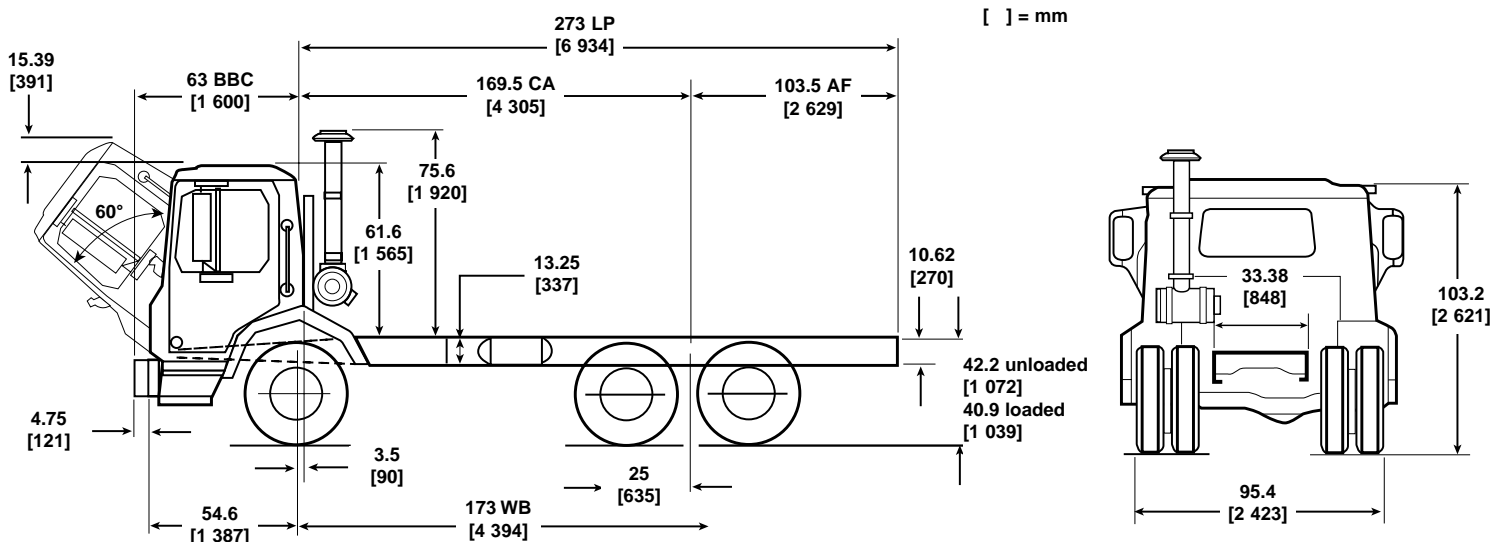
PAINT:

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

WEIGHT:

Front: 9,566
Rear: 6,912
TOTAL: 16,478

CHASSIS SPECIFICATIONS



AVAILABLE DRIVELINE COMPONENTS

ENGINES	
MODEL	*HORSEPOWER @ GOV'D. RPM
MACK	
AMI-300 ASET IEGR	300 HP [224 kW] @ 2100 <i>325 HP [243 kW] @ 1700-1900</i>
AI-300A ASET IEGR	300 HP [224 kW] @ 1950 <i>325 HP [243 kW] @ 1700</i>
AMI-335 ASET IEGR	335 HP [250 kW] @ 2100 <i>365 HP [272 kW] @ 1700-1900</i>
AMI-370 ASET IEGR	370 HP [276 kW] @ 2100 <i>405 HP [302 kW] @ 1700-1900</i>
AI-350 ASET IEGR	350 HP [261 kW] @ 1950 <i>350 HP [261 kW] @ 1600-1950</i>
AI-400 ASET IEGR	400 HP [298 kW] @ 1950 <i>400 HP [298 kW] @ 1600-1950</i>

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

TRANSMISSIONS		
MODEL	SPEEDS	RATIOS (LOW/HIGH)
MACK		
TM308	8	17.77/0.71
TM308M	8	17.77/0.71
TM309	9	25.21/0.71
TM309M	9	25.21/0.71
T309	9	11.40/0.71
T309(L)	9	13.93/0.71
T309(LR)	9	13.93/0.71
T310M	10	17.35/0.73
T310ME	10	17.35/0.73
T310MLR	10	27.31/0.71
ALLISON		
4500 RDS	5	4.70/0.76
4500 RDS	6	4.70/0.67
4000 RDS	5	3.51/0.74
4000 RDS	6	3.51/0.64
4500 RDS R	5	4.70/0.76
4500 RDS R	6	4.70/0.67
4000 RDS R	5	3.51/0.74
4000 RDS R	6	3.51/0.64
ALLISON—FOR FIRE PUMPER SERVICE		
4000 EVS	5	3.51/0.74
4000 EVS	6	3.51/0.64

AXLES					
CAPACITY	MAKE	MODEL	CAPACITY	MAKE	MODEL
FRONT AXLES			TANDEM REAR AXLES		
12,000 lb. [5 443 kg]	MACK	FAW12	34,000 lb. [15 422kg]	MACK	S34R
14,300 lb. [6 486 kg]	MACK	FAW14.3	38,000 lb. [17 237 kg]	MACK	S38R/SB38R
14,600 lb. [6 623 kg]	MERITOR	FG941	40,000 lb. [18 144 kg]	MACK	SB38R
18,000 lb. [8 165 kg]	MACK	FAW18	44,000 lb. [19 958 kg]	MACK	S440
20,000 lb. [9 072 kg]	MACK	FAW20	46,000 lb. [20 886 kg]	MACK	S462/S440
			50,000 lb. [22 680 kg]	MACK	S501
			58,000 lb. [26 309 kg]	MACK	S582

OPTIONAL EQUIPMENT

FRAME:

OPTIONAL: 13.37" [340 mm] x 3.25" [83 mm] x .375" [10 mm]
RBM—2,818,800 lb. in. [318 500 N•m]
Section Modulus—23.49 in.³ [385 000 mm³]

w/Reinforcement:

9.93" [252 mm] x 2.87" [73 mm] x .25" [6 mm]
RBM—3,530,400 lb. in. [399 200 N•m] (Combined Main Frame & Reinforcement)
Section Modulus—29.42 in.³ [482 000 mm³]

Wheelbase Availability: **MR600S** 6 x 4 Chassis 143" [3 632 mm] to 284" [6 477 mm]

OTHER OPTIONAL EQUIPMENT:

Air Conditioner, Integral Comb Unit Air Dryers Air System, Increased Volume Alcohol Evaporation All Hose Chassis Aluminum Air Reserves Back-up Alarm Battery Disconnect Switch Body Power Cable Brakes, Air Disc Bright Finish Equipment: Battery Box Covers Bumper Vertical Exhaust Systems Front Wheel Nuts Grille Mirrors Bumper Options Cab Windshield Protector includes Anti-Skid Roof Surface Courtesy Light Switch Crossmembers, I-Beam Type or 1/2" [13 mm] Plate Type Engine Brake Engine Cold Starting Aids Engine Heaters Engine Protection Shutdown System Exhaust, Vertical or Underframe Flasher, Transistorized 1/4" Inside Frame Reinforcement Fog and Driving Lamps Frame Extensions, Front 10" for Refuse Service Fuel Heaters/Water Separators Gauge Cluster Options: Air Restriction Axle Oil Temperature Engine Hourmeter Engine Oil Temperature Exhaust Pyrometer Fuel Pressure Manifold Pressure Transmission Oil Temperature	Hand Control Valve Hand Throttle, Vernier Type Hubodometer Interwheel Power Divider Mirror Options Mud Flaps Paint—Special Paint Designs Power Divider Lockout Power Take-Off Options: Front End PTO (Crankshaft Adapter) Transmission Side Mounted PTO's Transmission Rear Mount PTO's Lift Axle Mtg. Clearances Radio Options, Stereo/Cassette Seat Options, Driver & Rider Semi or Full Trailer Connections Package Engine Skid Plate Sliding Rear Window Static Load Cushions, Front Axle Synthetic Lubricants Tandem Axle Spacing Options Trailer Hook-up Lamp Waterproof Electrical Connections Wheel Equipment: Spoke, Steel or Aluminum Disc Windows—Door, Roll-up or Sliding
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OTHER COMPONENT OPTIONS
MAY BE AVAILABLE UPON REQUEST