

## 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 cm<sup>2</sup>] Frontal Area  
Anti-Freeze to -10°F [-23°C]  
Fan Drive, On-Off  
Poly-V Fan Belt with Automatic Tensioner

### 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

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 in<sup>3</sup> [427.1 cm<sup>3</sup>]  
RBM (per rail)—2,870,000 lb in [324 000 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 in<sup>3</sup> [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

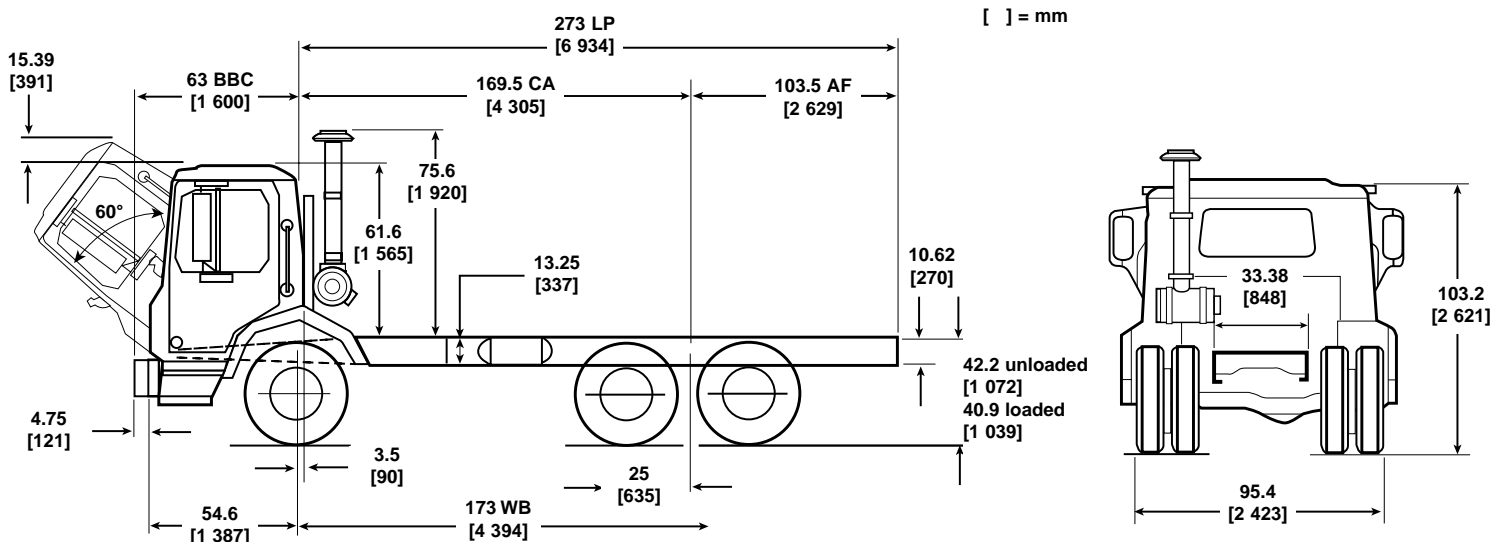
**PAINT:**

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

**WEIGHT:**

Front: 9,521  
Rear: 6,907  
TOTAL: 16,428

## CHASSIS SPECIFICATIONS



## AVAILABLE DRIVELINE COMPONENTS

ENGINES	
MODEL	*HORSEPOWER @ GOV'D. RPM
<b>MACK</b>	
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)
<b>MACK</b>		
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
<b>ALLISON</b>		
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
<b>ALLISON—FOR FIRE PUMPER SERVICE</b>		
4000 EVS	5	3.51/0.74
4000 EVS	6	3.51/0.64

AXLES					
CAPACITY	MAKE	MODEL	CAPACITY	MAKE	MODEL
<b>FRONT AXLES</b>			<b>TANDEM REAR AXLES</b>		
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—2,580,000 lb. in. [292 000 N•m]  
Section Modulus—23.49 in.<sup>3</sup> [385 000 mm<sup>3</sup>]

**w/Reinforcement:**

9.93" [252 mm] x 2.87" [73 mm] x .25" [6 mm]  
RBM—3,240,000 lb. in. [366 000 N•m] (Combined Main Frame & Reinforcement)  
Section Modulus—29.42 in.<sup>3</sup> [482 000 mm<sup>3</sup>]

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

### OTHER OPTIONAL EQUIPMENT:

Air Conditioner, Integral Comb Unit	Hand Control Valve
Air Dryers	Hand Throttle, Vernier Type
Air System, Increased Volume	Hubodometer
Alcohol Evaporation	Interwheel Power Divider
All Hose Chassis	Mirror Options
Aluminum Air Reserves	Mud Flaps
Back-up Alarm	Paint—Special Paint Designs
Battery Disconnect Switch	Power Divider Lockout
Body Power Cable	Power Take-Off Options:
Brakes, Air Disc	Front End PTO (Crankshaft Adapter)
Bright Finish Equipment:	Transmission Side Mounted PTO's
Battery Box Covers	Transmission Rear Mount PTO's
Bumper	Lift Axle Mtg. Clearances
Vertical Exhaust Systems	Radio Options, Stereo/Cassette
Front Wheel Nuts	Seat Options, Driver & Rider
Grille	Semi or Full Trailer Connections Package
Mirrors	Engine Skid Plate
Bumper Options	Sliding Rear Window
Cab Windshield Protector includes Anti-Skid	Static Load Cushions, Front Axle
Roof Surface	Synthetic Lubricants
Courtesy Light Switch	Tandem Axle Spacing Options
Crossmembers, I-Beam Type or	Trailer Hook-up Lamp
1/2" [13 mm] Plate Type	Waterproof Electrical Connections
Engine Brake	Wheel Equipment:
Engine Cold Starting Aids	Spoke, Steel or Aluminum Disc
Engine Heaters	Windows—Door, Roll-up or Sliding
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	

OTHER COMPONENT OPTIONS  
MAY BE AVAILABLE UPON REQUEST