

STANDARD SPECIFICATIONS

ENGINE: MACK, AMI-300 ASET

Horsepower, 300 HP [224 kW] at 2100 Gov. RPM
Peak Horsepower, 325 HP [242 kW] at 1700-1900 RPM
Max. Torque, 1200 lb/ft [1 672 N•m] at 1300 RPM
V-MAC III—Total Vehicle Electronics
Lube Oil System, Full Flow ESI
Extended Service Interval 16,000 Miles [25 749 km]
Centri-Max® Centrifugal Oil Filter
Silicone Hoses and Tubing on Engine
Air Compressor, Meritor WABCO 318 (18.7 CFM)
Starting System Starter, 12-Volt
Batteries, (3) Mack 12-Volt M/F Type, 1950 CCA
Alternator, 12V 100A, Delco (22 SI)
Air Intake System
Air Cleaner, Single Element—Dry Type
Air Restriction Monitor, Grad. Lock Up Type
(Air Cleaner Mtd.)
Exhaust, Single Vertical Cab Mounted
Cooling System—Shutterless Type
Aluminum Radiator, 950 sq in Frontal Area
Anti-Freeze to -10°F [-23°C]
Fan Drive, Viscous
Poly-V Fan Belt w/Auto. Tensioner

CLUTCH: EATON FULLER CL7981

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

TRANSMISSION: MACK, TM308

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

CAB: MACK CONVENTIONAL, CA67

Interior Features:

Basic: Contractor

Color: To be same as Exterior

Ash Tray

Cigar Lighter

CB—5-way Binding Post

Radio Accommodation Package

Coat Hook

Dispatch Box Mounted on Rear Panel

Overhead Console Including:

Location for Opt. Radio

Bergstrom Blend Air HVAC with R134a Refrigerant

Dome Light w/Self-Contained Switch

Adjustable Steering Column—Tilt Only

18" Steering Wheel, Two Spoke

Seats:

Driver's, Bostrom Talladega 915, Air Susp.
(Mid-Back)

Rider's Seat

Seat Belts—Driver and Rider

Lap & Shoulder w/Seat Belt Retractor

Sun Visor—Both Side

Floor Mats, Rubber w/Closed Cell Vinyl Nitrile Backing

MACK

CV712



- Single Rear Axle
- Conventional Chassis
- Front Axle Forward
- ABS (Anti-Lock Brake System)

STANDARD

ENGINE: MACK AMI-300 ASET
325 HP [242 kW] Peak Horsepower

TRANSMISSION: MACK TM308
8-Speed

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

REAR AXLE: MACK RA23R
23,000 lb. [10 433 kg] Capacity
Suspension: Multileaf Springs



STANDARD SPECIFICATIONS

(Continued)

CAB: (continued)

Interior Features: Operational
T.M.C. Recommended Instrument Panel
Air Pressure Gauge
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
Courtesy Light Switch (Head & Clearance)
Directional Signal

Exterior Features:
Welded Steel Shell, Galvanized
MACK Rust Preventative Procedures
Vents (Screened)
Fresh Air Inlet for Heater
Cab Step RH—Two Step Aluminum Frame Mounted
Safety Glass Windows
Tinted Windshields, Side & Rear Glass
Windshield Wipers—Two, Fixed Arm & Blade Type
Wiper Motor (Electric), (1), Two Speed Intermittent
Windshield Washers, Electric, Wiper Mtd. with
5 qt. [4.7 L] Reservoir
Mirrors, West Coast Bulldog Bright Finish, Includes
8" Convex RH & LH w/Stainless Steel Arms &
Brackets
Headlamps—Halogen, 7" [178 mm] Round
Daytime Running Lights
Identification and Clearance Lamps (5)
Side Markers—Lamps and Reflectors
Front Turn Signals
Transistorized Flasher
Horns, Air, MACK Rectangular Single Trumpet &
Electric, (Single Tone)
Doors—Galvanized Steel with:
Visibility Door with Roll-Up Tinted Windows
Grab Handles (Stainless Steel), RH & LH Behind Door
Cab Mounting: Trunnion Front, Air Suspended Rear

HOOD & FENDERS:

One Piece Fiberglass with Splash Aprons
Tilts Forward 90°
Grille—Argent Silver Metal

FRAME:

WB—Wheelbase—163" [4 140 mm]
LP—Load Platform—138" [3 505 mm]
CA—Cab to Axle—84" [2 134 mm]
AF—C/L Axles to End of Frame—54" [1 372 mm]
Frame Rails—Steel
Cross Section—10.625" x 3.25" x .3125" [270 x 83 x 8 mm]
Section Modulus—14.27 in³ [233.8 cm³]
RBM (per rail) —1,570,000 lbs in [177 000 N•m]
Crossmembers—
Behind Cab: Steel Huck Bolted, Back to Back Type
Intermediates: Single Channel Type
Behind Rear Axle: Web Channel Type
Bumper: Steel, Swept Back Channel, 92.6" x 10"
[2 352 x 254 mm]
Extended Mounting
BBC—Bumper to Back of Cab—117" [2 972 mm]
Towing: Eyes

FUEL TANKS:

Steel
Capacity/Location, 55 gal [208.2 L] LH

FRONT AXLE: MACK, FAW12

12,000 lb [5 443 kg] Capacity
Meritor Brakes, "S" Cam 16.5" x 5", w/o Dust Shields
Slack Adjusters—Automatic
Suspension, MACK Taperleaf Spring with 12,000 lb
[5 443 kg]
Ground Load Rating
34.5" [876 mm] Spring Centers
Shock Absorbers
Integral Power Steering
Wheel Equipment, Hub Piloted Steel Disc Wheel
Outboard with Cast Drums and Ferrous Hubs
Rims, 22.5" x 8.25"
Wheel Seals—Oil
Tires: 11R22.5 (singles)

REAR AXLE: MACK, RA23R

23,000 lb [10 433 kg] Capacity Axle
Carrier—Malleable—CRD203
Suspension—Mack 23,000 lb. [10 433 kg] Capacity
Multileaf Springs
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; 2 Units
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 (duals)

AIR/BRAKE:

ABS (Anti-Lock Brake System)
Dual Air Brake System
Air Dryer—Heated
Air Reservoirs—Steel

ELECTRICAL:

Polished Aluminum Battery Box Cover
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

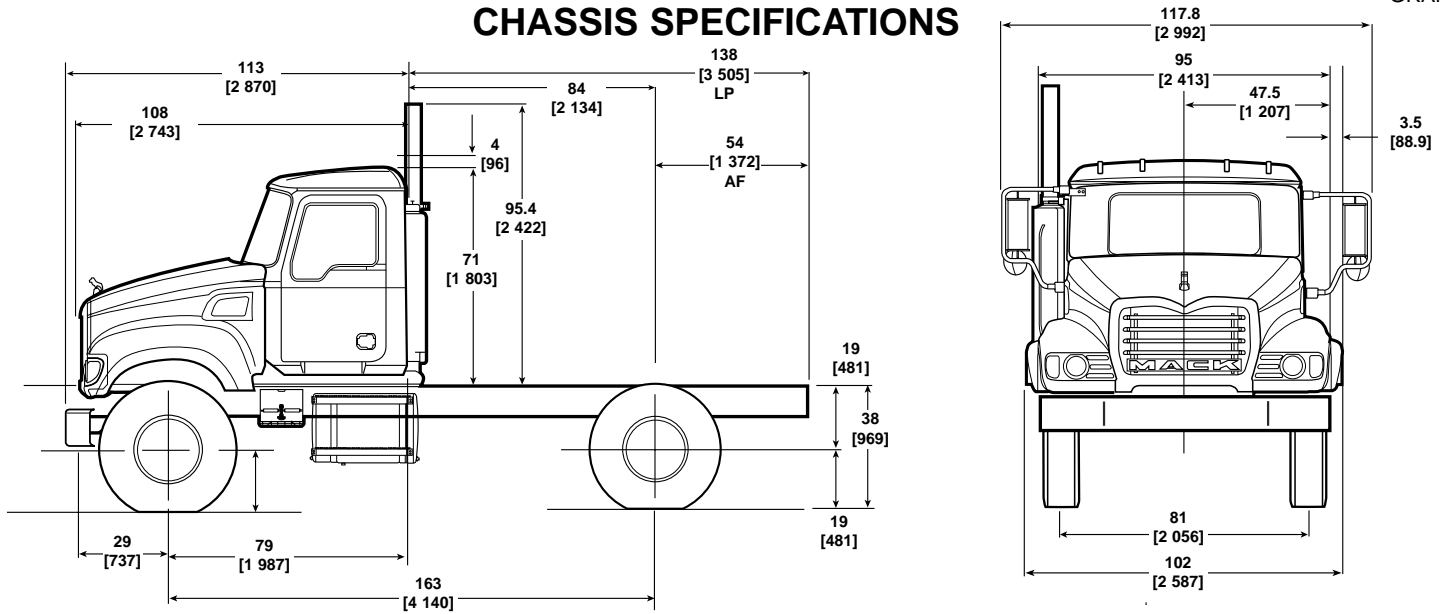
PAINT:

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

WEIGHT:

Front: 6,995
Rear: 4,207
TOTAL: 11,202

CHASSIS SPECIFICATIONS



AVAILABLE DRIVELINE COMPONENTS

ENGINES			
MODEL	*HORSEPOWER @ GOV'D. RPM	MODEL	*HORSEPOWER @ GOV'D. RPM
MACK			
AI-300A ASET IEGR (For Use with Automatic Only)	300 HP [224 kW] @ 1950 325 HP [243 kW] @ 1700	AI-350 ASET IEGR	350 HP [261 kW] @ 1950 350 HP [261 kW] @ 1600-1950
AMI-300 ASET IEGR	300 HP [224 kW] @ 2100 325 HP [243 kW] @ 1700-1900	AI-400 ASET IEGR	400 HP [298 kW] @ 1950 400 HP [298 kW] @ 1600-1950
AMI-335 ASET IEGR	335 HP [250 kW] @ 2100 365 HP [272 kW] @ 1700-1900	AI-427 ASET IEGR	427 HP [318 kW] @ 1950 427 HP [318 kW] @ 1600-1950
AMI-370 ASET IEGR	370 HP [276 kW] @ 2100 405 HP [302 kW] @ 1700-1900	AI-460 ASET IEGR	460 HP [343 kW] @ 1950 460 HP [343 kW] @ 1600-1950

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
T310	10	13.81/0.73
T310M	10	17.35/0.73
T310ME	10	17.35/0.73
T310MLR	10	27.31/0.71
T313 LR	13	16.42/0.71
T313 L	13	16.42/0.71
T318LR	18	16.42/0.71
T318L	18	16.42/0.71
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 RD R	5	3.51/0.74
4000 RDS R	6	3.51/0.64
FULLER		
RTX-13609B	9	12.57/0.73
RTX-14609B	9	12.56/0.73
RTX-16709B	9	12.57/0.73
RTO-14908LL	10	14.56/0.74
RTO-16908LL	10	14.56/0.74
FR0-16210C	10	12.69/0.74
RTO-14909ALL	11	26.08/0.73
RTO-16909ALL	11	26.08/0.73

AXLES		
CAPACITY	MAKE	MODEL
FRONT AXLES		
12,000 lb. [5 443 kg]	MACK	FAW12
14,300 lb. [6 486 kg]	MACK	FAW14.3
14,600 lb. [6 623 kg]	MERITOR	FG9 41
18,000 lb. [8 165 kg]	MACK	FXL18/FAW18
20,000 lb. [9 072 kg]	MACK	FXL20/FAW20
SINGLE REAR AXLES		
21,000 lb. [9 526 kg]	MERITOR	RS-21-145
23,000 lb. [10 433 kg]	MACK	RA23R
	MERITOR	RS-23-160/161/186
30,000 lb. [13 608 kg]	MERITOR	RS30-185
	DANA SPICER	30105S/30055P

OPTIONAL EQUIPMENT**FRAME:****Standard Frame w/Optional Reinforcement**

10.62" x 3.25" x .312" with 9.93" x 2.93" x .250" inside channel reinforcement
Section Modulus: 23.60 in.³
Resisting Bending Moment, RBM: 2,600,000 lbs. in. [294 000 N•m]

Optional Frame without Reinforcement

10.75" x 3.25" x .375" with 9.93" x 2.93" x .250" inside channel reinforcement
Section Modulus: 16.98 in.³
Resisting Bending Moment, RBM: 1,870,000 lbs. in. [211 275 N•m]

Optional Frame w/Optional Reinforcement

10.75" x 3.25" x .375" with 9.93" x 2.93" x .250" inside channel reinforcement
Section Modulus: 26.06 in.³
Resisting Bending Moment, RBM: 2,870,000 lbs. in. [324 275 N•m]

20" Front Frame Extension for Snow Plow Mount (Continuation of Parent Frame)**Rail Dimensions:**

10.62" x 3.25" x .312" with 9.93" x 2.93" x .250" inside channel reinforcement
Section Modulus: 23.60 in.³
Resisting Bending Moment, RBM: 2,600,000 lbs. in. [294 000 N•m]

10.79" x 3.25" x .394" with 9.93" x 2.93" x .250" inside channel reinforcement
Section Modulus: 23.60 in.³
Resisting Bending Moment, RBM: 3,055,000 lbs. in. [345 159 N•m]

10.79" x 3.25" x .394" without inside channel reinforcement
Section Modulus: 17.81 in.³
Resisting Bending Moment, RBM: 1,960,000 lbs. in. [221 444 N•m]

Wheelbase Availability

163" [4 140 mm] to 300" [7 620 mm]

CAB, INTERIOR TRIM LEVELS:

"Contractor": For complete description, refer to Price Book or MackTraQ

"Custom": For complete description, refer to Price Book or MackTraQ

"Premier": For complete description, refer to Price Book or MackTraQ

OTHER OPTIONAL EQUIPMENT:

Air Conditioner, Integral Comb Unit
Air Dryers
Air System, Increased Volume
Alcohol Evaporation
All Hose Chassis
Aluminum Air Reservoir
Aluminum Battery Boxes and Covers
Aluminum Bumpers
Back-up Alarm
Body Power Cable
Bright Finish Equipment:
 Battery Box Covers
 Bumpers
 Fuel Tank Steps & Straps
 Polished Aluminum Air Reservoirs
 Polished Aluminum Disc Wheels
 Front Wheel Nuts
 Radiator Guard
Bumper, Swept Back w/Center Tow Pin
Crossmembers, I-Beam Type
Engine Brake
Engine Cold Starting Aids
Engine Heaters
Engine Protection Shutdown System
Flasher, Transistorized
Fuel Heaters
Gauge Cluster Options:

Air Application
Air Restriction
Axle Oil Temperature
Engine Oil Temperature
Exhaust Pyrometer
Fuel Pressure
Manifold Pressure
Transmission Oil Temperature
Hand Control Valve
Hood, Fiberglass with Inspection Hatch
Hubodometer
Inside—Outside Air Intake
Interwheel Power Divider
Mirror Options
Mud Flaps
Paint—Special Paint Designs
Pintle Hook—10 Ton
Power Take-Off Options:
 REPTO
 Front End PTO (Crankshaft Adapter)
Power Windows and Door Locks
Pusher/Tag Axle Mtg. Clearance
Radiator Guard
Radio Options, Stereo/Cassette
Seat Options, Driver & Rider
Semi or Full Trailer Connections Package
Sliding Rear Window
Sun Visor, Exterior

Synthetic Lubricants
Trailer Access Package
Trailer Hook-up Lamp
Waterproof Electrical Connections
Wheel Equipment:
 Cast Spoke, Steel or Aluminum Disc
Window Lift —R.H. (Power Electric)

OTHER COMPONENT OPTIONS
MAY BE AVAILABLE UPON REQUEST