

STANDARD SPECIFICATIONS

ENGINE: MP7-365C

Peak Horsepower, 365 HP [272 kW] at 1500-1700 RPM
Gov. Horsepower, 340 HP [254 kW] at 1950 RPM
Max. Torque, 1460 lb/ft [1 978 N•m] at 1200 RPM
V-MAC IV—Total Vehicle Electronics
Lube Oil System, 2 Full Flow Filters
Extended Service Interval
30,000 Miles [48 300 km]
Centri-Max Ultra Plus® 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, 1980 CCA
Alternator, 12V 100A, Delco (24 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, 990 sq in Frontal Area
Anti-Freeze to -10°F [-23°C]
Fan Drive, Electronic Modulating
Poly-V Fan Belt w/Auto. Tensioner
Radiator Mounted Bug Screen
Power Leash Engine Brake

CLUTCH: EATON FULLER, CL798

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

TRANSMISSION: FULLER, FRO-14210B

10-Speed, Ratios: 11.06 Low—0.75 High
Driveline: Meritor 17N HD w/Coated Splines

CAB: CONVENTIONAL, CA68

Interior Features:

Basic Trim Level: Genuine/Color: Slate Gray
Ash Tray
Cigar Lighter
CB—5-way Binding Post
2 Coat Hooks
Dispatch Box
Overhead Console including 3 Storage Compartments w/
Retaining Nets
Radio Accomodations
Air Conditioner w/Integral Heater with R134a Refrigerant
4 Dome Lights: 2 Driver Side and 2 Passenger Side
Door Mounted Courtesy Lamp, "On" when Driver or
Rider Side Door is Open
Steering Wheel, 18" Dia. 2-Spoke Soft Feel
Infinitely Adjustable Tilt & Telescope Steering Column

Seats:

Driver's, Bostrom Talladegha 915 (Mid-Back)
Rider's, MACK Non-Suspension (Mid-Back)
Seat Belts—Driver's and Rider's
Lap & Shoulder w/Seat Belt Retractor & "Komfort Latch"
Sun Visor—Both Sides
Floor Mats, MACK Signature Polyurethane

MACK

PINNACLE CXP603 SERIES



- Conventional Chassis
- Set-Back Front Axle
- 6-Wheel Tractor
- ABS (Anti-Lock Brake System)

The MACK Pinnacle is for fleet owner and owner-operator alike, a total chassis optimized through computer-aided design for an excellent strength-to-weight ratio. The cab incorporates exceptional room and comfort with the highest standards of fit and finish. The cab ride is an innovative cab air suspension, providing unsurpassed smoothness and comfort. The axle-back configuration contributes to handling ease, while the quiet roomy interior caters to the driver's every need.

STANDARD

ENGINE: MACK MP7-365C
365 HP [272 kW] Peak Horsepower

TRANSMISSION: FULLER, FRO-14210B
10-Speed

FRONT AXLE: MACK FXL12
12,000 lb. [5 443 kg] Capacity

REAR AXLE: MERITOR RT40-145
40,000 lb. [18 144 kg] Capacity



Mack Trucks, Inc., Allentown, Pennsylvania

STANDARD SPECIFICATIONS

(Continued)

CAB: continued

Interior Features: Operational:

T.M.C. Recommended Instrument Panel
Driver Information Display
Air Pressure Gauge
Voltmeter
Fuel Level Gauge
Engine Oil Pressure Gauge
Engine Coolant Temperature Gauge
Low Air Pressure Indicator (Light and Buzzer)
Speedometer w/Two-Trip Odometer, Electronic
Tachometer w/Hourmeter, Electronic
High Beam Indicator
Parking Brake On Indicator
Key Type Starting
Hand Throttle Control
Engine Shutoff, Key-Type Control
Courtesy Light Switch (Head & Clearance)
Directional Signal Switch

Exterior Features:

Welded Steel Shell, Galvanized
MACK Rust Preventative Procedures
Safety Glass Windows
Tinted Windshields, Side and Rear Windows
Conspicuity Treatment, Back of Cab
Windshield Wipers—Dual Actuated Arms, Cowl Mtd.
Wiper Motor Two Speed Electric with Intermittent Feature
Windshield Washers, Electric, Wiper Arm Mtd. with
Reservoir Mounted Under Hood
Mirrors, West Coast Type Aero Mirror
Headlamps—Flush Mounted Halogen—Single Rectangular
w/Lexan Lens (Replaceable Bulb) Bezel—Bright Finish
(molded plastic)
Daytime Running Lights
Identification and Clearance Lamps (5)
Side Markers—Lamps and Reflectors
Front Integral Turn Signals with Fender
Transistorized Flasher
Horns, (1) MACK Rectangular Single Trumpet Air Horn,
Electric, (Single Tone)
Doors—Galvanized Steel with:
Visibility Door with Roll-Up Tinted Windows
Grab Handles (Slip Resistant) RH & LH Behind Door
Cab Mounting:
Two Mounting Brackets at Front
Air Isolation at Rear

HOOD & FENDERS: FIBERGLASS

SMC (Sheet Molding Compound)
Fiberglass with Wheel Splash Aprons
Tilts Forward 75° with Spring Assist
Grille—Hood Mounted Bright Finish Bars with Bright Finish Surround

FRAME:

WB—Wheelbase—156"
LP—Load Platform—147"
CA—Cab to Axle—90"
AF—C/L Axles to End of Frame—56"
Frame Rails—Steel
Cross Section—10.47" x 3.54" x .24" [266 x 90 x 6 mm]
Section Modulus—11.52 in.³ [189 cm³]
RBM (per rail)—1,390,000 lb. in. [158 000 N•m]
Tapered and Flanged—28° Rail Ends
Bumper: Non-Metallic Flexible Flush Mounting
BBC—Bumper to Back of Cab—112.6"
Towing: Clevis (2)
Fifth Wheel: Fontaine SL3ASB Series Air Slide

FUEL TANKS:

Aluminum, 26" [640 mm] Dia.
Capacity/Location, 93 gal [352 L] LH & RH

FRONT AXLE: MACK FXL12

Set Back Front Axle
12,000 lb [5 443 kg] Capacity
Brakes, "S" Cam 15" x 4" [381 x 102 mm]
Meritor "Q-Plus" Brakes w/o Dust Shields
Slack Adjusters—Automatic
Suspension, MACK Taperleaf Spring (2 Leaf) with
12,000 lb [5 443 kg] Ground Load Rating
Shock Absorbers
Integral Power Steering
Wheel Equipment, 22.5" x 8.25" 10 Hole Hub Piloted
Aluminum Disc Wheels
Wheel Seals—Oil
Tires: 295/75R22.5 (singles)

REAR AXLE: MERITOR RT40-145

40,000 lb [18 144 kg] Capacity Axle
Carrier—Malleable
Suspension—Mack 40,000 lb [18 144 kg] Capacity
MaxLite 40 (40,000 lb. [18 144 kg]) with Height Control
Kit and Malleable Spring Hangers
52" [1 321 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; 2 Units
Wheel Equipment, 22.5" x 8.25" 10 Hole Hub Piloted
Aluminum Disc Wheels
Wheel Seals—Oil
Tires: 295/75R22.5 (duals)

AIR/BRAKE:

ABS (Anti-Lock Brake System)
Dual Air Brake System
Air Reservoirs—
Two Steel, Horizontal Mtd. on RH Rail Forward of Fuel
Tank, Primary—Single Compartment Tank, Supply/
Secondary—Two Compartment
Capacity—5,600 in³ [92 L]
Air Dryer—Heated
Semi-Trailer Connection Package
Air Brake Grouping
Chassis Mtd. Pogo Stick
12-ft Air Hose (2)
Glad Hand (2)
Glad Hand Storage Bracket
(B.O.C.—LH Ground Reachable)
Breakaway Safety Valve
Hand Control Valve for Trailer Brakes
Electric Grouping
12-ft (7-Wire) Cord
7-Wire Plugs

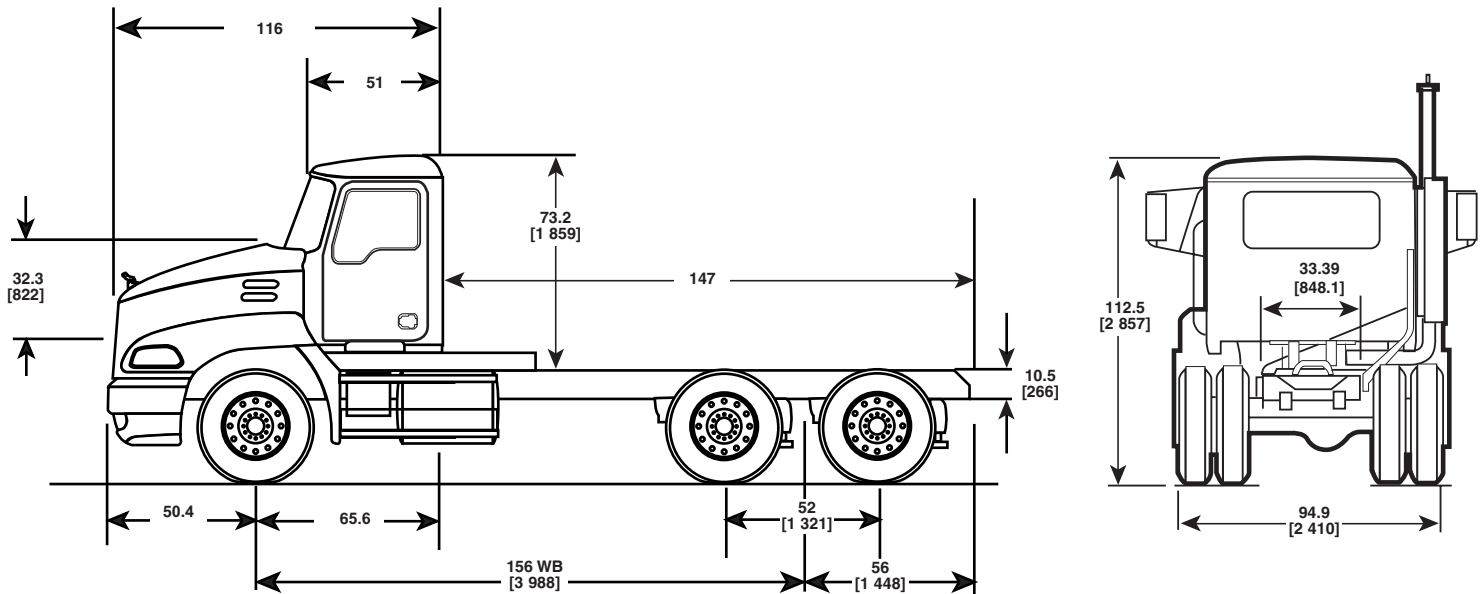
ELECTRICAL:

Steel Battery Box with Molded Plastic Cover Mtd.
Forward of RH Fuel Tank
Chassis Electrical
Negative Ground
12-Volt Electrical Circuits and Bulbs
Fuse/Breaker Protected Circuits
Breaker Protected Headlamp & Windshield Wiper Circuits
Rear Lighting, (2) Combination Stop, Tail Directional &
Back-up Lights
Trailer Electrical Package for Doubles Operation

PAINT:

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

CHASSIS SPECIFICATIONS



AVAILABLE DRIVELINE COMPONENTS

TRANSMISSIONS		
MODEL	SPEEDS	RATIOS (LOW/HIGH)
MACK		
T306G	6	7.50/0.71
T309	9	11.40/0.71
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
T313LR	13	16.42/0.71
T313	13	13.44/0.71
T318LR	18	16.42/0.71
T318	18	13.44/0.71
T318L21	18	16.42/0.71
ALLISON		
4000 HS	5	3.51/0.74
4000 HS	6	3.51/0.64
4500 HS	5	4.70/0.76
4500 HS	6	4.70/0.67
FULLER		
RTX-13609B	9	12.57/0.73
RTX-14609B	9	12.57/0.73
RTX-16709B	9	12.46/0.73
FR-13210B	10	14.80/1.00
FR-14210B	10	14.80/1.00
FRO-13210B	10	11.06/0.75
FRO-13210C	10	12.69/0.74
FRO-14210B	10	11.06/0.75
FRO-14210C	10	12.69/0.74
FRO-15210B	10	11.06/0.75
FRO-15210C	10	12.69/0.74
FRO-16210B	10	11.06/0.75
FRO-16210C	10	12.69/0.74
RTO-14908LL	10	14.56/0.74
RTO-16908LL	10	14.56/0.74
RTO-16909ALL	11	26.08/0.73
RTLO-14913A	13	12.31/0.73
RTLO-16913A	13	12.31/0.73
RT-14915	15	16.94/1.00
RTO-14915	15	13.29/0.79
RTO-16915	15	13.29/0.79
RTLO-14918B	18	14.40/0.73
RTLO-16918B	18	14.40/0.73

ENGINES	
MODE	*HORSEPOWER
MACK—MP7	
MP7-365C	365 HP [272 kW] @ 1500-1700
	340 HP [254 kW] @ 1950
MP7-395C	395 HP [295 kW] @ 1500-1700
	370 HP [276 kW] @ 1950
MP7-355E	355 HP [265 kW] @ 1500-1800
	355 HP [265 kW] @ 1800
MP7-405E	405 HP [302 kW] @ 1500-1800
	405HP [276 kW] @ 1800

TRANSMISSIONS (Continued)					
MODEL	SPEEDS	RATIOS (LOW/HIGH)	MODEL	SPEEDS	RATIOS (LOW/HIGH)
GENERATION III—FULLER AUTO SHIFT					
RTO-14910B-AS3	10	10.96/0.74	RTO-16910C-AS3	10	12.80/0.73
RTO-16910B-AS3	10	10.96/0.74	RTLO-14918C-AS3	18	12.19/0.73
RTO-14910C-AS3	10	12.80/0.73	RTLO-16918C-AS3	18	12.19/0.73
GENERATION III—FULLER ULTRA SHIFT					
RTO-14910B-DM3	10	10.96/0.74	RTO-16910B-DM3	10	10.96/0.74
MERITOR					
M-14G10A-M14	10	15.02/1.00	MO-13G10C-M13	10	12.72/0.73
M-15G10A-M15	10	15.02/1.00	MO-14G10A-M14	10	11.19/0.74
MO-11G10A-M11	10	11.19/0.74	MO-14G10C-M14	10	12.72/0.73
MO-11G10C-M11	10	12.72/0.73	MO-15G10A-M15	10	11.19/0.74
MO-13G10A-M13	10	11.19/0.74	MO-15G10C-M15	10	12.72/0.73

AXLES		
CAPACITY	MAKE	MODEL
FRONT AXLES		
12,000 lb. [5 443 kg]	MACK	FXL 12
	DANA SPICER	E1202I
	MERITOR	FF966 or FF986
	HENDRICKSON	STEERTEK
	MACK	FXL 14.6
14,600 lb [6 623 kg]	MACK	FXL 14.6
	HENDRICKSON	STEERTEK

AVAILABLE DRIVELINE COMPONENTS (Continued)

AXLES					
CAPACITY	MAKE	MODEL	CAPACITY	MAKE	MODEL
TANDEM REAR AXLES/SUSPENSION					
38,000 LB. [17 237 kg]	MACK	S38R	44,000 lb. [19 958 kg]	MACK	S440
40,000 lb. [18 414 kg]	DANA SPICER	DS405(P) DST40(P)/41(P)	46,000 lb. [20 866 kg]	MACK	S440/462
	MERITOR	RT40-145A RT40-160		MERITOR	RT46-160 RT46-164

FRAME:

Optional Frame Rails

Rail Dimensions: 10.47" x 3.54" x .28" [266 x 90 x 7 mm]
 Section Modulus: 13.3 in.³ [217.9 cm³]
 Resisting Bending Moment, RBM: 1,600,000 lbs. in. [180 000 N•m]

Rail Dimensions: 10.47" x 3.54" x .32" [266 x 90 x 8 mm]
 Section Modulus: 15.0 in.³ [245.8 cm³]
 Resisting Bending Moment, RBM: 1,810,000 lbs. in. [203 000 N•m]

Rail Dimensions: 11.81" x 3.54" x .37" [300 x 90 x 9.5 mm]
 Section Modulus: 20.6 in.³ [337.6 cm³]
 Resisting Bending Moment, RBM: 2,470,000 lbs. in. [279 000 N•m]

Wheelbase Availability

144" [3 658 mm] to 248" [6 299 mm]

CAB, INTERIOR TRIM LEVELS:

Trim Level I - Genuine: For complete description, consult MackTraq

Trim Level II - Custom: For complete description, consult MackTraq

Trim Level III - Grand Touring: For complete description, consult MackTraq

SLEEPER BOXES: Interior Color Matches that of the Cab Interior; Sleeper Box Integral with Cab Mounting

48" [1 219 mm] Flat Top

56" [1 423 mm] Flat Top

60" [1 524 mm] Mid Rise

70" [1 778 mm] Mid Rise

70" [1 778 mm] High Rise

AERO AIDS: Roof Fairing, Side Shields, Roof Air Reflector

OTHER OPTIONAL EQUIPMENT:

- Air Compressor Options
- Air Dryer Options
- Air Horns
- Air Reservoirs, Aluminum
- Back-Up Alarm
- Battery Box Cover, Aluminum
- Battery Disconnect Switch
- Battery Options
- Brake Equipment Options
- Bright Finish Equipment:
 - Air Reservoirs
 - Battery Box Cover
 - Bumper
 - Exhaust Systems
 - Fuel Tanks
 - Mirrors and Brackets
 - Steps
 - Wheels, Disc
- Bug Screen
- Bumper—Stainless Steel, Clad Aluminum, Painted Steel with Flexible Ends
- CB Radio Options
- Cab Accessories
- Chassis Keyed Alike
- Clutch, Self-Adjusting
- Coolant Protection to -40°F
- Crossmember Options

- Drain Valve, Automatic
- Driveline, Increased Size
- Electrical Circuit Breaker
- Electrical:
 - Starter Options
 - Alternator Options
- Engine Brake
- Engine Cold Starting Aids
- Engine Heaters
- Exhaust, Dual Vertical
- Fifth Wheels and Related Equipment
- Fog/Driving Lights
- Fuel Heaters
- Fuel System:
 - Fast Fill & Accessory Options
 - Dual Draw
- Fuel/Water Separators
- Gauge Cluster Options:
 - Air Application
 - Axle Oil Temperature
 - Engine Oil Temperature
 - Exhaust Pyrometer
 - Manifold Pressure
 - Transmission Oil Temperature
- Hubodometer
- Inside/Outside Air Intake

- Interwheel Power Divider
- Inversion Valve, Spring Brakes
- Mirror Options
- Paint Designs (Cab & Hood)
- Power Take-Off Options & Clearances
- Power Windows and Door Locks
- Quarter Fenders
- Radio Options, Stereo/Cassette/CD
- Rear Axle Carrier Options
- Seat Options, Driver & Rider
- Sleeper Box Interior Options
- Sun Visor, Exterior
- Suspension, Rear Axle: Multileaf or Air
- Synthetic Lubricants
- Tires
- Trailer Access Packages
- Trailer Connection Packages & Accessory Options
- Trailer Hook-Up Lamp
- Transistorized Flashers
- Transmission Cooler
- Vinyl Stripe Designs (Cab & Hood)
- Wheel Equipment:
 - Steel or Aluminum Disc
 - Hub & Drum Equipment
- Wheel Seals

OTHER COMPONENT OPTIONS
MAY BE AVAILABLE UPON REQUEST.

