

FEATURES)

- High Torque MAXICRUISE™ Diesel Engine
- · Cooled Exhaust Gas Recirculation (CEGR)
- Maximum Horsepower 365 BHP [272 kW]
- Electronic Unit Pump Fuel Injection with Rate Shaping
- V-MAC IV Total Vehicle Electronics System
- Wide Operating Range 1200-1950 RPM
- Chassis Mounted Charge Air Cooled
- Variable Geometry Turbocharger
- Extended Service Intervals
- MACK PowerLeash Engine Brake

SPECIFICATIONS

Peak HP (kW) @ RPM	365 [272] @ 1500-1700
HP [kW] @ Governed RPM	
Max. Torque lb. ft. [N•m] @ RPM	
Type	Direct Injection Diesel
Number of Cylinders	6, In-Line
Bore & Stroke, in. [mm]	
Displacement, in. ³ [L]	
Compression Ratio	
Firing Order	1-5-3-6-2-4
Torque Rise	60%
Clutch Engagement72	0 lb. ft. [976 N•m] @ 800 RPM
Idle Speeds:	
Low	Adjustable; 650 RPM
High	Adjustable; 2100 RPM
Engine Brake Retarding Power (If Appl	icable)
	20 HP [313 kW] @ 2100 RPM
Weight, Dry: (Approx.)	2,270 lbs. [1 030 kg]
(With air compressor, but no oil, water,	starter, fan, alternator, or clutch)

V-MAC IV® FUNCTIONS

4th Generation Vehicle Management And Control System

V-MAC IV PRODUCTIVITY FEATURES:

PTO (4) and Electronic Hand Throttle Control Engine "Smart Fan Control" Integrated Sleeper Low Voltage Disconnect † "Smart Idle" Speed Regulator GuardDog Routine Maintenance Monitoring †

V-MAC IV DRIVER CONVENIENCE FEATURES:

Full Featured Cruise Control Cruise and Brake Engine Brake Control Programmable Engine Governor Type Idle Cooldown Daytime Running Light (DRL) Override ¹

V-MAC IV FUEL ECONOMY FEATURES:

Vehicle Speed Limiting Engine "Sweet Spot Indicator" Fuel Economy Incentive Program Idle Shutdown Integrated Temp-A-Start †

V-MAC IV RELIABILITY FEATURES:

Engine Protection Starter Protection Differential Lock Auto Control

V-MAC IV FLEET MANAGEMENT FEATURES:

DataMax Comprehensive On-Board Data Logger InfoMax PC Fleet Management Software



V-MAC IV SAFETY AND SECURITY FEATURES:

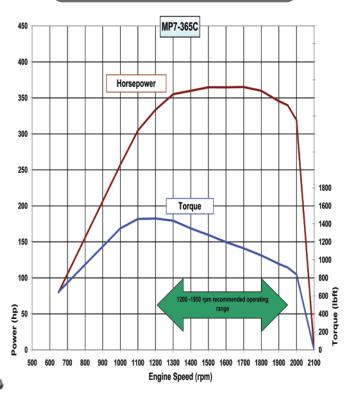
Speed Sensor Tamper Resistance
Theft Deterrence
5th Wheel Slide Unlocked Vehicle Speed Limiting
Air Suspension Deflated Vehicle Speed Limiting

V-MAC IV SERVICEABILITY FEATURES:

SAE J1587 and J1939 Diagnostic Port Electronic Fault Logging with Fault Reporter VCADS PC Based Service Software

† Denotes an available option.

ENGINE PERFORMANCE



ENGINE SPECIFICATIONS

Flywheel Housing
Material Alloyed Grey Cast Iron Ladder Frame Reinforcement
Cylinder Liners:
TypeFull Wet Design
Surface Finish Plateau Honed Cylinder Head Assembly:
Type Grey Cast Iron Slab Head With
Intermediate Deck
Single Overhead Cam
Configuration 4 Valves/Cyl., OHV
Valve Type
Valve/Insert Material Super Alloy (Serviceable) Pistons & Rings:
Piston Type Monotherm™ Single Piece Steel
w/Closed Cooling Gallery
Pin Diameter 2.125" [54 mm]
Rings 2 Compression, 1 Oil Control
Crankshaft:
Material Street Street
Heat Treatment Induction-Hardened Journals/Fillet
Main Bearing Diameter 4.5" [114 mm]
Charge Air Cooling Chassis Mounted, Air-To-Air
Fuel System Delphi E3 Electronic Unit Injectors
w/2 Solenoid Valve Technology and Rate Shaping
Fuel Supply PumpZF Meritor
Filter Spin On, Disposable
Lubrication System:
TypeFull Pressure, Wet Sump
Oil Filters 2 Spin-On Full Flow Disposable,
Single Bypass Disposable
Oil Cooler Stainless Steel Plate
Total Oil Capacity
Drain Plug Magnetic
Cooling System:
Capacity
Thermostats
Hose Material Silicone
Air Compressor:
Type Meritor WABCO
Standard Capacity
Turbocharger Holset, Sliding Nozzle Ring Variable
Geometry w/Water Cooled Actuator and Bearings
and Electronic Controls
Accessory Belt Poly-V w/Automatic Tensioners
EGR System
Single EGR Valve Assembly Modulated Cast Stainless Steel
EGR Cooler Stainless Steel Tube and Insert Gas to Coolant
and insert das to Coolant

OIL/FILTER SERVICE INTERVALS

Refer to the latest version of Mack Maintenance & Lubrication Manual TS494.

OPTIONAL EQUIPMENT**

High Capacity Air Compressor 120 and 240 Volt Engine Block Heaters High Capacity Alternator

A SALES ENGINEERING PUBLICATION

GEARING RECOMMENDATIONS

Proper gearing is necessary to achieve optimum vehicle performance and fuel economy. Vehicle specifications, including engine, transmission, axle ratio, and tire selection, should generally be selected to meet the following criteria:

Startability	Highway Applications ≥ 10% On-Off Highway Applications ≥ 16%
Gradeability	@ Cruise Max. MPH $\dots \ge 0.5\%$ @ Peak Torque, Top Gear $\dots \ge 1.5\%$
Cruise RPM	1500 ±50 RPM*

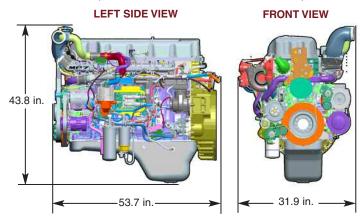
^{*}Cruise RPM = Engine speed in top gear @ Cruise Max. MPH setting. Limited to 65 MPH. At higher speeds gear truck to obtain above RPM @ 65 MPH.

Refer to the MACKTRAQ® electronic sales tool to obtain startability, gradeability and cruise RPM results for specific vehicle specifications. Special service applications, road surfaces, high GCW's or other factors may require different gearing considerations.

(DIMENSIONS)

Conventional Chassis

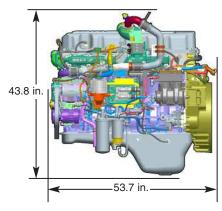
(CHU, CXU, GU7 AND GU8 MODELS)



LCF Chassis

(MRU AND LEU MODELS)

LEFT SIDE VIEW



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^{**} Availability may be chassis model dependent.