



SED

PRODUCT INFORMATION

Sales Engineering

Mack Trucks, Inc.
Allentown, PA 18103
United States

MackTrucks.com

PID Code/Condition: 100-1761
Description: Mack MP7-425M US17
Date: August 3, 2016



FEATURES:

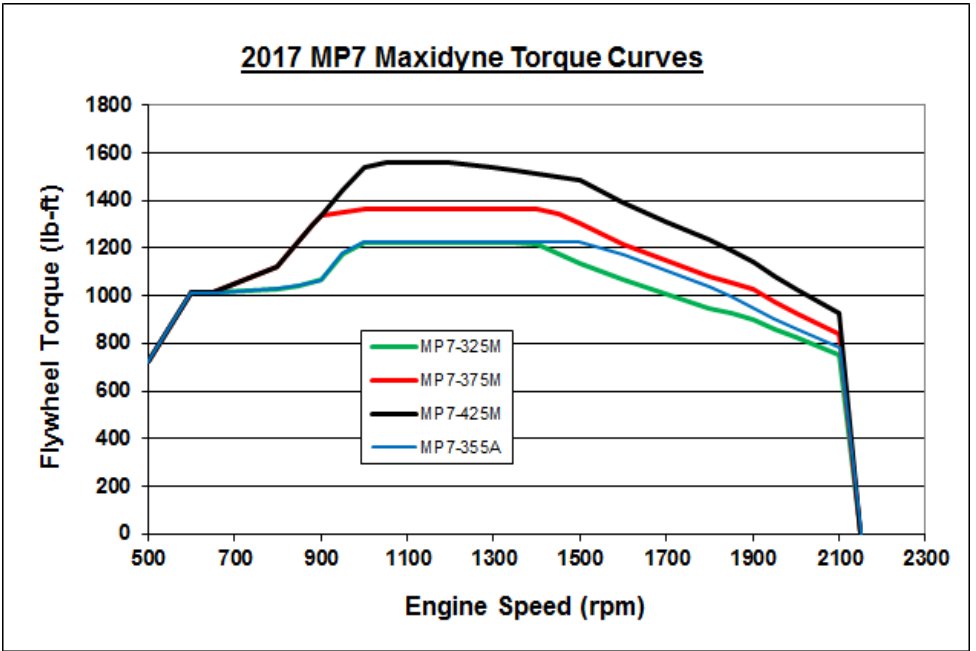
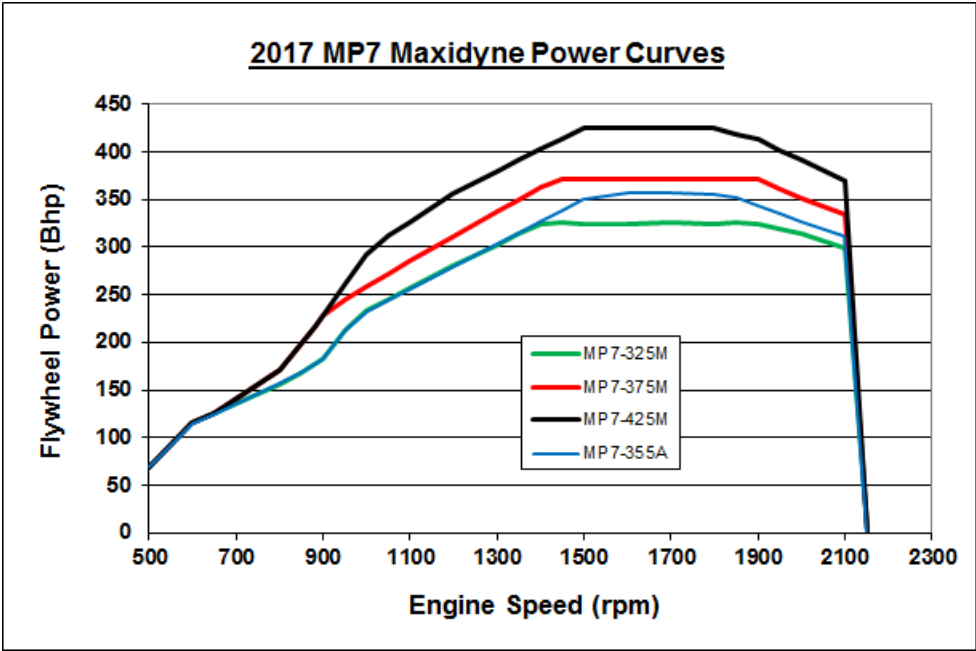
- High Torque MAXIDYNE Diesel Engine
- Maximum Horsepower 425 BHP [317 kW]
- Electronic Common Rail Fuel Injection
- V-MAC IV Total Vehicle Electronics System
- Wide Operating Range 600 – 2100 RPM
- Variable Geometry Turbocharger
- Extended Service Intervals
- MACK PowerLeash Engine Brake

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SPECIFICATIONS:

Peak HP [kW] @ RPM	425 [317] @ 1500 – 1800
HP [kW] @ Governed RPM	370 [276] @ 2100
Max. Torque lb. ft. [Nm] @ RPM	1560 [2115] @ 1050 - 1200
Type	Direct Injection Diesel
Number of Cylinders	6, In-Line
Bore & Stroke, inches [mm]	4.84 X 5.98 [123 X 152]
Displacement, cubic inches [L]	659 [11]
Compression Ratio	16:1
Firing Order	1 - 5 - 3 - 6 - 2 – 4
Torque Rise	60%
Clutch Engagement . lb. ft. [Nm] @ RPM	1121 [1520] @ 800
Idle Speeds:	
Low	Adjustable, 600 RPM
High	2100 RPM
Engine Brake Retarding Power[If Applicable]	420 HP [313 kW] @ 2100 RPM
Weight, Dry [Approximate] lbs. [kg]	2207 [1001]
Flywheel Housing	Die Cast Aluminum
Cylinder Block	Alloyed Grey Cast Iron with Ladder Frame Reinforcement
Cylinder Liners	Full Wet Design, Plateau Honed
Cylinder Head Assembly:	
Type	Grey Cast Iron Slab Head with Intermediate Deck
Configuration	Single Overhead Cam, 4 valves per Cylinder
Valve Type	Poppet
Valve Insert Material	Super Alloy [Serviceable]
Piston and Rings:	
Piston Type - Monotherm Single Piece Steel with Closed Cooling Gallery	
Pin Diameter, inches [mm]	2.125 [55]
Rings	2 Compression, 1 Oil Control
Crankshaft:	
Material	Forged, Carbon Steel
Heat Treatment	Induction Hardened Journals/Fillet
Main Bearing Diameter inches [mm]	4.5 [114]
Charge Air Cooling	Chassis Mounted, Air – To – Air
Fuel System	High Pressure F2 Common Rail
Fuel Supply Pump	ZF Meritor
Fuel Filter	Spin On, Disposable

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Lubrication System:

Type Full Pressure, Wet Sump
Oil Filters . . . 2 Spin On Full Flow Disposable, Single Bypass Disposable
Oil Cooler Stainless Steel Plate
Total Oil Capacity 32 Quarts, Includes Filters
Drain Plug Magnetic

Cooling System:

Capacity Quarts [L] 17 [16]
Thermostats 180 Degrees F, 82 Degrees C
Hose Material Mack Brand EPDM

Air Compressor:

Type Meritor/WABCO
Standard Capacity:
GU7, & GU8 18.7 cfm [8.9L/s]
MRU, LR 37.4 cfm [17.8L/s]

Turbocharger Holset, Sliding Nozzle Ring variable Geometry with Water Cooled
Actuator and Bearings, and Electronic Controls

Accessory Belt Poly – V with Automatic Tensioners

EGR System:

Single EGR Valve Assembly Modulated Cast Stainless Steel
EGR Cooler Stainless Steel Tube and Insert Gas to Coolant

OIL/FILTER SERVICE INTERVALS:

Refer to the latest version of the Mack Maintenance and Lubrication Manual

OPTIONAL EQUIPMENT:

High Capacity Air Compressor
120 Volt and 240 Volt Engine Block Heater
Oil Pan Heater
Oil Change System
High Capacity Alternator
Heavy Duty Air Cleaner [Model Specific]

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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"
- "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
- Idle Cooldown
- Daytime Running Light [DRL] Override

V-MAC IV FUEL ECONOMY FEATURES:

- Vehicle Speed Limiting
- Engine "Sweet Spot Indicator"
- Fuel Economy Incentive Program
- Idle Shutdown

V-MAC IV RELIABILITY FEATURES:

- Engine Protection
- Starter Protection
- Differential Lock Auto Control

V-MAC IV SAFETY AND SECURITY FEATURES:

- Tamper Resistant Speed Sensor
- Theft Deterrence
- 5th Wheel Slide Unlock 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
- OBD II Style Diagnostic Connector
- DataMax Comprehensive On-Board Data Logger

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GEARING RECOMMENDATIONS:

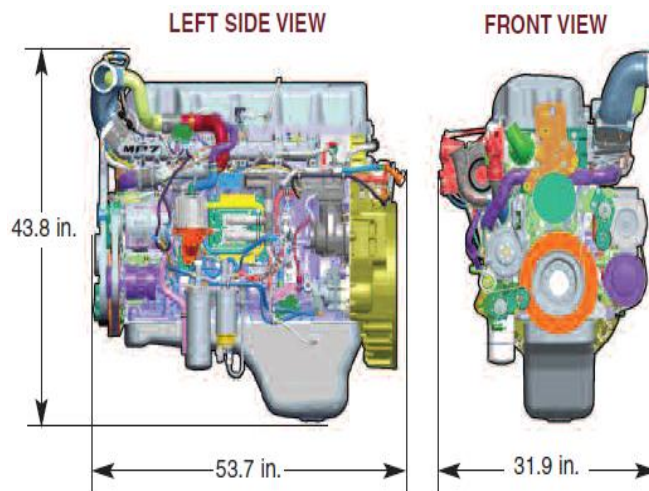
Proper Gearing is necessary to achieve optimum vehicle performance and fuel economy. Vehicle specifications, including engine, transmission, axle ratio, and tire selection should generally be selected to meet the following criteria:

Startability	Highway Applications	$\geq 10\%$
	On-Off Highway Applications	$\geq 16\%$
Gradeability	@ Cruise Max. MPH	$\geq 0.5\%$
	@ Peak Torque, Top Gear	$\geq 1.5\%$
Cruise RPM	1400 +/- 50 RPM	

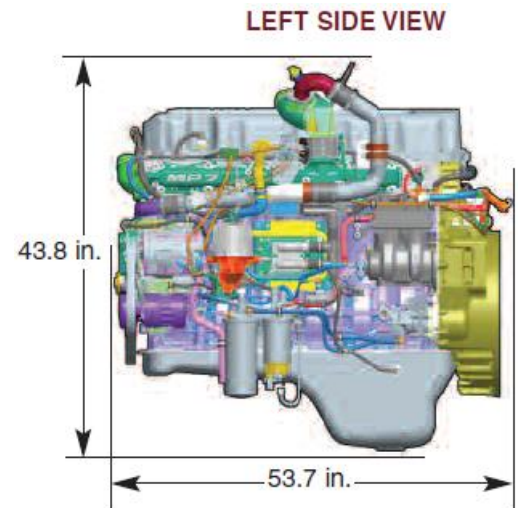
Refer to your current sales tool to obtain startability, gradeability and cruise RPM results for each unique vehicle specification. Special service applications, road surfaces, high Gross Combination Weights or other factors may require different gearing considerations.

DIMENSIONS:

Conventional Chassis



Low Cab Forward Chassis



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