

MACK®

Engine & Transmission

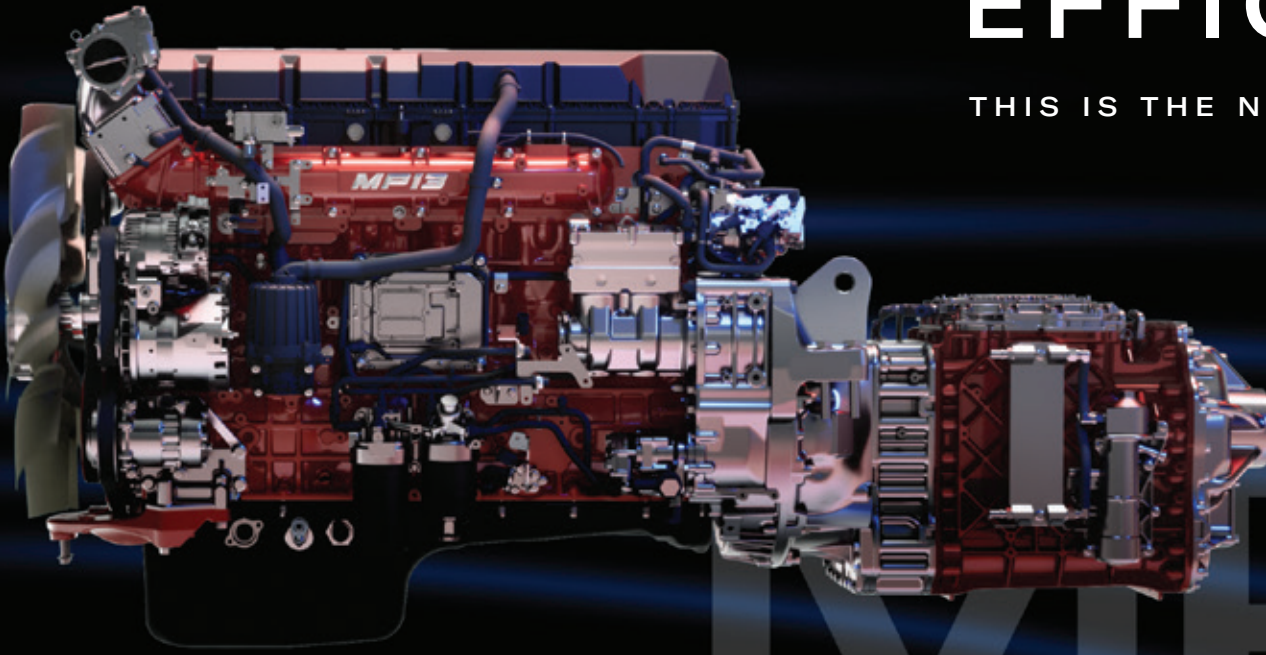
PIONEER™



New Mack MP[®]13 Engine

MORE POWER. MORE FUEL EFFICIENCY.

THIS IS THE NEW STANDARD.



Greater Power

Delivering up to 540 hp and up to 1,950 lb-ft of torque, the MP[®]13 is available in a range of ratings to power any haul.

Greater Fuel Efficiency

Engineered to deliver unprecedented fuel economy, the MP[®]13 engine features a new wave piston design and combustion improvements that make it up to 3% more fuel efficient than the previous MP[®]13 engine.

Dynamic Overdrive

Specially engineered for the MP[®]13 engine, the 13-speed Dynamic Overdrive technology intelligently shifts between Economy+, Economy, and Performance modes, delivering optimal efficiency while enhancing startability and hill climbing.

Enhanced Engine Brake

Updated engine brake curve gives the Mack PowerLeash[™] engine brake the capability to deliver maximum braking power.

MP[®]13 Options

MP[®]13

Ideal for applications demanding power and versatility on the road. The MP[®]13 features an advanced variable geometry turbocharger that delivers optimal performance and fuel efficiency across all driving conditions and terrain.

- Available in 8 power profiles
- 410–540 Horsepower
- 1,550–1,950 lb-ft Torque



New Aero Max Package

Combines the full set of Pioneer's aerodynamic options for maximum efficiency and fuel economy.

Extra-Low Chassis Ground Effects

Over 12" Enhanced Cab Extenders

Roof Deflector with Trim Tab

Enhanced Flow Below

Wheel Covers



11%

**MORE
FUEL EFFICIENT**

A combination of aerodynamic and powertrain enhancements make Pioneer the most efficient Mack ever.

mDRIVE™

New Clutch Design

A redesigned clutch features a new disc, clutch housing, and dampening control system for enhanced durability.

30% Faster Shifting

The optimized transmission design provides shifting that's faster and smoother than ever.

Enhanced Electronics

mDrive™ utilizes new hardware sensors and valves to improve gear shifting performance.

mDRIVE™

- 12-, 13-, and 14-speed direct and overdrive
- 13-speed OD for Dynamic Overdrive
- 13-speed creeper and multi-speed reverse available

mDRIVE™ HD

- 12- and 13-speed direct and overdrive
- 13-speed OD for Dynamic Overdrive
- 13-speed creeper and multi-speed reverse available
- 14-speed ultra-low creeper and multi-speed available



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