

MACK®

Engine & Transmission

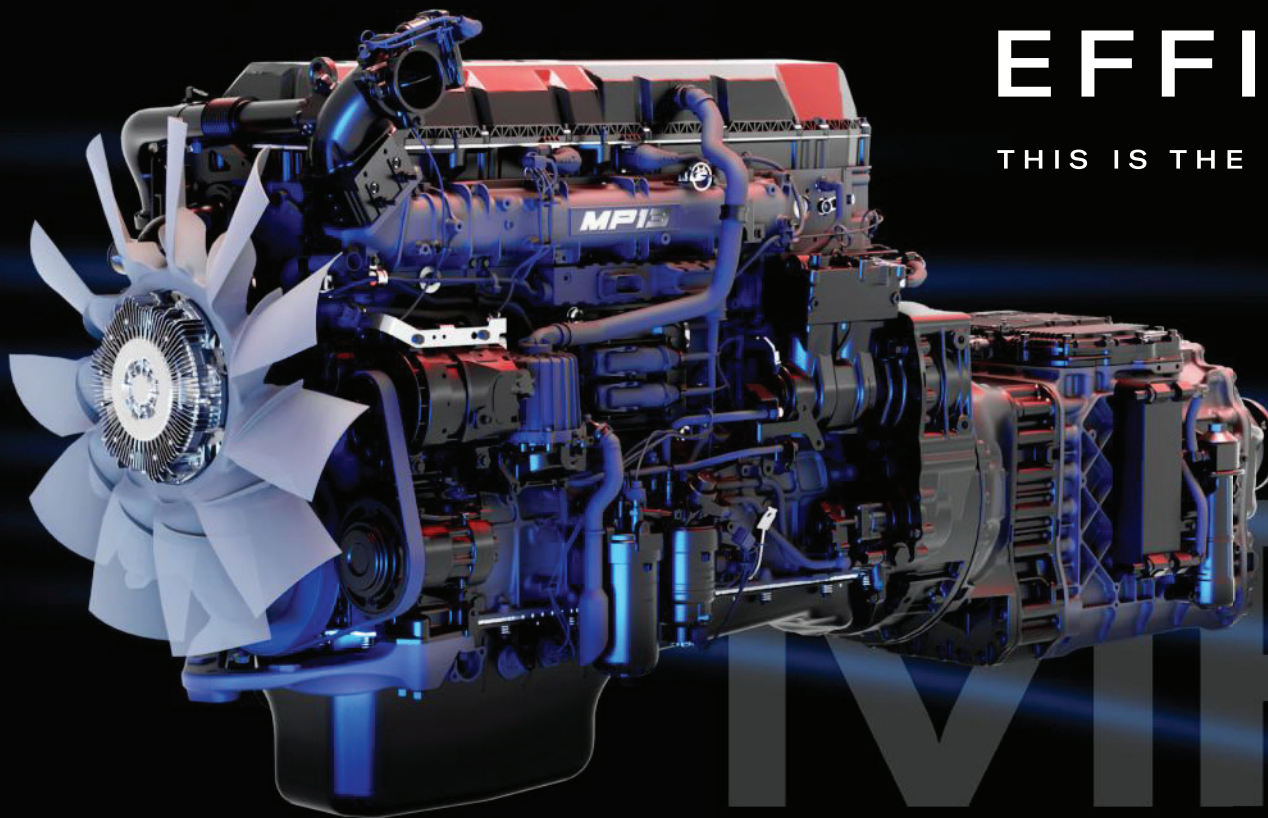
PIONEER™



New Mack MP[®]13 Engine

MORE POWER. MORE FUEL EFFICIENCY.

THIS IS THE NEW STANDARD.



Greater Power

Delivering up to 515hp and up to 1,950 lb-ft of torque, the MP13 is available in a variety of ratings to power any haul.

Greater Fuel Efficiency

Engineered to deliver unprecedented fuel economy, the MP13 engine features a new wave piston design and other combustion improvements that make it 3% more fuel efficient than the MP8 engine.

Dynamic Overdrive

Specially engineered for the MP13 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

MP13

Ideal for applications demanding power and versatility on the road. The MP13 features an advanced variable geometry turbocharger that delivers optimal performance and fuel efficiency across all driving conditions and terrain.

- Available in 8 Power Profiles
- 415-515 Horsepower
- 1,550-1,900 lb- ft Torque

MP13HE

Engineered for maximum efficiency in long-haul applications where every drop of fuel matters. With an innovative turbo compounding technology that converts exhaust heat into additional power, the MP13HE delivers more horsepower without increasing fuel consumption.

- Available in 4 Power Profiles
- 415-505 Horsepower
- 1,750-1,950 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

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

11%

**MORE
FUEL EFFICIENT**

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



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