



The power of MP54AC

## AC Traction 5400 BHP, Twin Engine Reliability

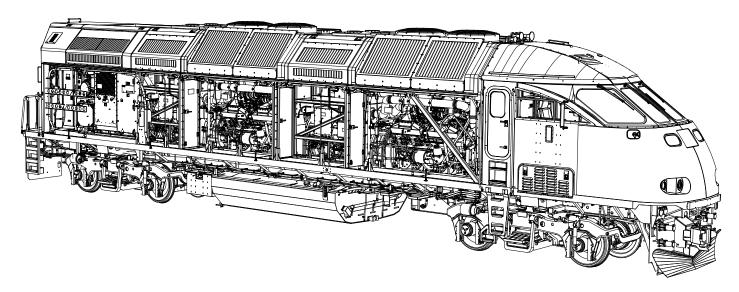
First Tier 4 Commuter Locomotive



## Tier 4 Commuter Locomotive

(MPI), a Wabtec company, offers the MP54 AC commuter provided with the capability to operate in single engine mode locomotive. Based on the proven MPXpress® platform and for increased fuel savings. An IGBT based AC traction system powered by two Cummins QSK60 Tier 4 compliant engines, is included with individual axle control, brushless AC motors the locomotive provides up to 5400 HP, making it the most and a synchronous alternator to minimize maintenance powerful diesel passenger locomotive in North America. The impact. This configuration can be offered as new or as a two engine configuration offers built-in redundancy, ideal for Tier 4 repower to existing MPXpress locomotives. customers who typically operate single locomotive trainsets.

For maximum performance and reliability, MotivePower, Inc. and need maximum reliability. Operational flexibility is also



## MP54AC Specifications

Model	MP54AC
Emissions	US EPA Tier 4
Power	4,026 kW (5,400 hp) Gross 3,425 kW (4,600 hp) Traction*
Tractive Effort***	82,900 lbs Starting 50,700 lbs Continuous
Mass	280,000 - 290,000 lbs**
Axle Load	70,000 - 72,500 lbs
Maximum Speed	110 mph
Power Per Driving Axle	1,200 hp (Maximum)
Wheel Diameter	40"
Fuel Capacity	1,800 or 2,400 Gallons
Dimensions Length Over Couplers Height - Carbody Width Over Handrails Bolster Centers Truck Wheelbase Curve (Single Unit) Curve (With 85' Car)	68 Feet, 0 Inches 15' 9-15/16" 10' 7-5/8" 42' 10" 9' 4" 248' (23.1°) 315' (18.2°)
Engine	Dual Cummins QSK60, MCRS, Tier IV 16 Cylinder, 2,700 hp each.

Model	MP54AC
Main Generator	Dual 2.0 MW, Synchronous, Brushless
Trucks	MP2237, 4 Wheel, Cast Steel Frame
Traction Motors	AC Brushless With Individual Axle Control, 1,200 hp
Air Compressor	Liquid-Cooled Screw Type
Brakes—Air	Wabtec Fastbrake®, Blended w/ DB
Brakes—Dynamic	Extended Range
Cooling System	4 x 48" AC Powered Cooling Fans
HEP	Inverter HEP, IGBT
HEP Power	720 kW, 480 Vac or 575 Vac
Operator's Controls	Console Desk w/ CDU screen, PTC provisions
Cab	APTA Crashworthy, Air Conditioned
Control System	QES-III with Auto Engine Start Stop
Special Features     Electronic Fuel Injection     Certified US EPA Tier 4     4600-5400 hp configurable	<ul><li>Regenerative Braking</li><li>Optional Central Diagnostic System (CDS) with GPS</li></ul>

Tracking



<sup>\*</sup>With nominal HEP load.

<sup>\*\*</sup>Based on fuel capacity options.

<sup>\*\*\*</sup>Assumes AAR Conditions, Dry Rail, New 40" Wheels, 4 x 1200 hp AC Motors & 62:15 Gear Ratio.