

MP²⁷ International Freight Locomotive



The power of MP²⁷
line haul,
configurable rail gauges,
lightweight international applications



Solutions in Motion

MotivePower, Inc. (MPI), a Wabtec company, designed and built the MP27 Series, medium horsepower freight locomotive. The MP27 accommodates multiple track gauges and axle loads as low as 17 tonnes. The MP27 features a rail-proven, fuel efficient diesel engine certified to US EPA Tier 3 emission levels. The MP27 is designed to meet standards from Australia, South Asia, Africa and South America.

In 2012, Wabtec delivered the first MP27 for use in Australia for demanding narrow-gauge freight service. Since that time, the MP27 has been operating 20 hours per day, over 120,000

km per year, exceeding customer defined reliability targets.

To further enhance reliability, the MP27 can be equipped with MPI's advanced central diagnostic system (CDS). CDS provides the maintainer with in-depth remote diagnostics, fuel monitoring and tracking of the locomotive. CDS provides all active locomotive faults and the recommended corrective action for the maintainer. CDS is in-use today on multiple locomotive applications.

The MP27 also comes standard with service-proven Wabtec freight components; including Fastbrake® electronically controlled braking system, Q-Tron microprocessor and Distributed Power.

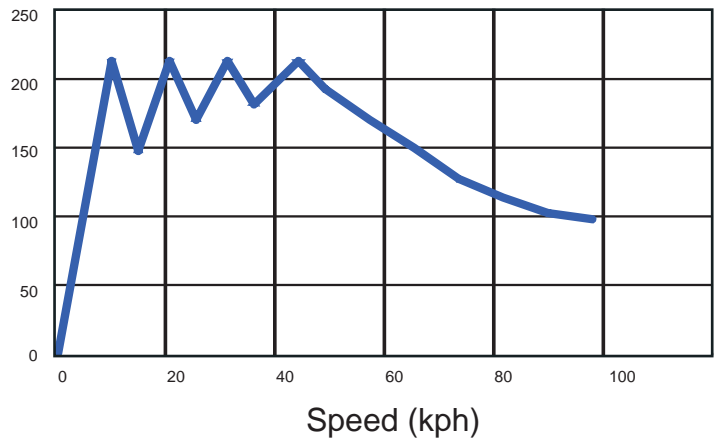
MP27 Specifications

Model	MP27
Power	2,013 kw (2,700 hp) Gross 1,864 kw (2,500 hp) Traction
Tractive Effort	245 kN Continuous @ 22.4 kph*
Rail Gauge	Configurable: 914 mm, 1000 mm, 1067 mm, 1435 mm, 1676 mm
Mass	105 Tonnes*
Axle Load	17 - 29 Tonnes*
Wheel Arrangement	Co-Co
Maximum Speed	90 kph
Power Per Driving Axle	310 kW*
Gear Ratio	93/18*
Wheel Diameter	1016 mm
Fuel Capacity	5,000 / 10,000 Liters
Dimensions	
Length Over Couplers	20,015 mm
Height Over Rail Level	3,991 mm
Width Over Walkways	2,845 mm
Bogie Wheelbase	1,702 mm
Curving	80 M
Engine	Cummins QSK60, MCRS, US EPA Tier 3, 2700 BHP
Main Generator	Kato, 8P6.5 Traction and Companion
Traction Motors	GE761 Or Equivalent* DC motors
Air Compressor	Wabco CMCBLAT 3 Cylinder, Air Cooled, Motor Driven
Brakes—Air	Wabtec Fastbrake®
Brakes—Dynamic	200 kN, Extended Range
Cooling System	3 x 48" AC Powered Cooling Fans
Operator's Controls	Single, Integrated CDU (2x), Optional Rear Facing Console
Cab	Single, Isolated, Air Conditioned
Control System	QES-III with Auto Engine Start Stop

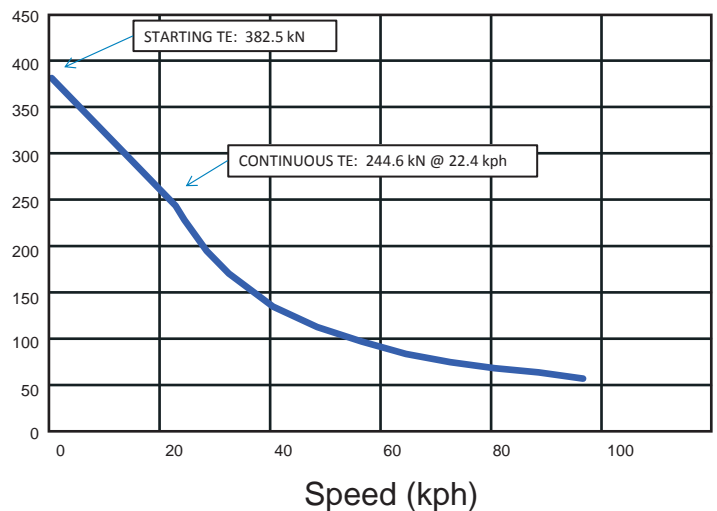
Special Features

- Electronic Fuel Injection
- Optional Toilet Room
- Wabtec Distributed Power
- Optional Central Diagnostic System with GPS Tracking
- Optional Hotplate and Refrigerator

MP27 Braking Effort **



MP27 Tractive Effort **



* Configuration shown for MP27CN-1067mm Gauge Locomotive @ 17.5 tonne.
**Configuration shown for MP27CN and Assumes AAR Conditions, Dry Rail, New 1016mm Wheels, 6 x 761 Motors & 93:18 Gear Ratio.