

MP³³ International Freight Locomotive



The power of MP³³
Line Haul,
Configurable Rail Gauges,
Lightweight International Applications



Solutions in Motion

MotivePower, Inc. (MPI), a wabtec company, designed and built the MP33 Series freight locomotive. The MP33 accommodates multiple track gauges and axle loads as low as 18.65 tonnes. The MP33 features a rail-proven, fuel-efficient diesel engine and is designed to meet standards in Australia, South Asia, Africa and South America.

The MP33 cab was designed with operating crews in mind. The consoles follow AAR clean-cab guidelines, and provide an unobstructed windscreen view for the operator. The MP33 features a vibration isolated cab and optional rear facing consoles.

In 2012, Wabtec delivered the first MP33 for use in Western Australia. Since that time, the MP33 has been operating nearly 20 hours per day, over 120,000 km per year, exceeding

MP33C Specifications

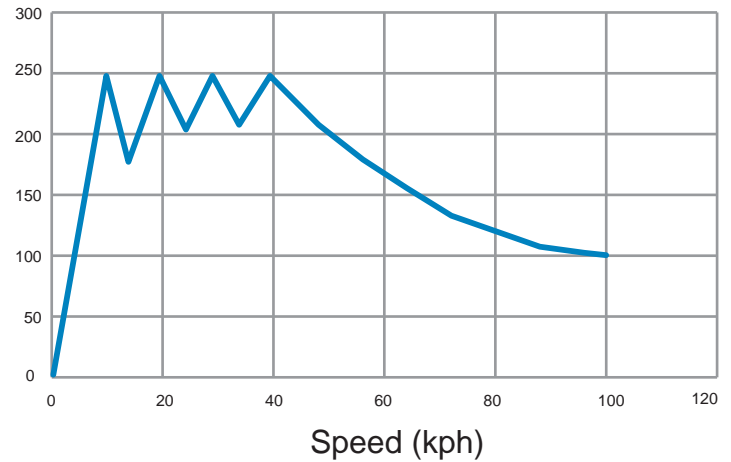
Model	MP33C
Power	2,461 kw (3,300 hp) Gross 2,312 kw (3,100 hp) Traction
Tractive Effort	410 kN Continuous @ 16.5 kph*
Rail Gauge	Configurable: 914 mm, 1000 mm, 1067 mm, 1435 mm, 1676 mm
Mass	112-138 Tonnes*
Axle Load	18.65-23 Tonnes*
Wheel Arrangement	Co-Co
Maximum Speed	110 kph
Power Per Driving Axle	385 kW*
Gear Ratio	61:16*
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
Engine	Cummins QSK78, US Tier 2
Main Generator	Kato, 8P6.5-3000 / 8P5-0875 Companion
Traction Motors - DC	GE761 Or Equivalent* (Narrow Gauge) D78 or D87 BTR (Standard Gauge)
Air Compressor	Wabco 3CMCBLAT 3 Cylinder, Air Cooled, Motor Driven
Brakes—Air	Wabtec Fastbrake®
Brakes—Dynamic	250 kN, Extended Range
Cooling System	3 x 48" AC Cooling Fans
Operator's Controls	Single / Optional Dual Rear Facing
Cab	Single, Isolated, Air Conditioned
Control System	QES-III with Auto Engine Start Stop
Special Features	
• Optional Central Diagnostic System with GPS Tracking	• Optional Toilet Room • Optional Hotplate and Refrigerator • Optional Wabtec Distributed Power

customer defined reliability targets.

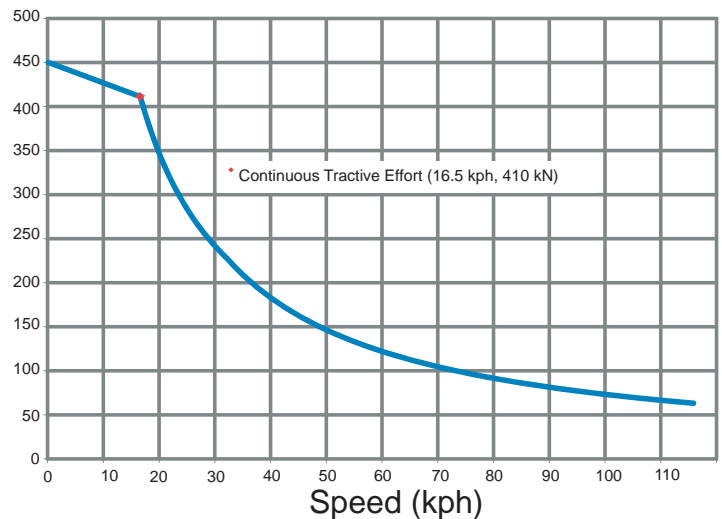
To further enhance reliability, an advanced central diagnostic system (CDS) can be included with the MP33. CDS provides the maintainer with in-depth remote diagnostics, fuel monitoring and tracking of the locomotive. CDS provides all active locomotive faults and the recommended corrective action, as well as back-office technical support. CDS is in-use today on multiple freight and passenger applications.

The MP33 also comes standard with service-proven Wabtec freight components; including Fastbrake® electronically controlled braking system, Q-Tron® microprocessor and more.

MP33C Braking Effort **



MP33C Tractive Effort **



* Configuration shown for MP33C-1435mm Gauge Locomotive

**Assumes AAR Conditions, Dry Rail, New 1016mm Wheels, 6 x D87 Motors & 61:16 Gear Ratio