

MPXpress[®] Commuter Locomotives



Safe and reliable commuter locomotives

MPXpress Locomotives

Crew Safety,
Low Cost,
220+ Service Proven Units



Solutions in Motion

MPXpress® Commuter Locomotives

MotivePower, Inc. (MPI), a Wabtec company, designed the MPXpress® diesel-electric commuter locomotive to enhance the safety, performance and reliability of passenger railway systems in North America. There are more than 220 units operating at several commuter agencies throughout North America. MPXpress locomotives have been the proven and preferred choice for commuter rail agencies since 2003.

The MPXpress structural design meets the American Public Transportation Association's crash worthiness standards for crew safety and exceeds current FRA requirements.

MPI engineers worked closely with operating and maintenance crews to design a safe, comfortable, user-friendly cab with high visibility windows and an ergonomically designed control console. The control compartment is built to a standard specification which can be tailored to any customer specifications.

Because the MPXpress locomotive is available with multiple engine, emission tier and control system configurations, it is the cleanest two-stroke diesel commuter locomotive available.



Model	MP32PH-Q	MP36PH-3C	MP40PH-3C
Horsepower	3,200	3,600	4,000
Prime Mover	16-645E3C	16-645F3B	16-710G3B to 16-710G3B
Emission Tier	Tier 0+	Tier 2	Tier 3
Main Alternator	AR10	AR10	AR15
Starting Tractive Effort	70,000	72,500 to 85,000 lbs	85,000 lbs
Weight (nominal)	282,500 lbs	280,000 to 295,000	289,000
Maximum Speed	79 mph	82 to 102 mph	93 mph
Gear Ratio	66:20	55:22 to 60:17	57:20
Wheel Diameter	40"	40"	40"
Fuel Capacity	2,000 Gal	1,750 to 2,500 Gal	2,200 Gal
Dimensions			
Length Over Couplers	62'-5"	68' to 70'	68'
Height Over Rail	15'-5.25"	15'-5" to 15'-6"	15'-5"
Width Over Cab	10'-9"	10'-7.5" to 10'-7"	10'-7.5"
Bolster Centers	37'-3"	42'-10" to 43'-3"	42'-10"
Truck Wheelbase	9'	9'	9'-4"
Trucks	Blomberg	Blomberg	Blomberg
Traction Motors	D78	D78	D87BTR
Air Compressor	Shaft-Driven Westinghouse	Shaft-Driven Westinghouse	Shaft-Driven Westinghouse
Brakes—Air	Wabtec 26LUL / Blended	Wabtec 26LUL / Blended	Wabtec 26LUL / Blended
Brakes—Dynamic	Yes	Yes	Yes
HEP Output	425 kW	400 kW to 720 kW	425 kW to 720 kW
Operator's Controls	Desktop	Desktop	Desktop
Control System	QES-III	QES-III	EM2000