

MPE^x *Low Emissions Locomotives*



*The power of MPE^x
efficient,
expertly engineered,
environmentally sound and economical*

 **MotivePower**
A **Wabtec** company

Solutions in Motion

MPE^X Low Emissions Locomotives



MotivePower is an industry leader in the design, manufacture and remanufacture of diesel-electric locomotives. Over 2,500 locomotives have been delivered from our facilities in Boise, Idaho since 1972.

MotivePower is committed to assisting railroads in their ongoing effort to reduce locomotive emissions and improve operating efficiencies. We designed

and manufactured the only four liquefied natural gas locomotives operating in North America and were the first to provide Tier 2 low horsepower locomotives and Tier 2 commuter locomotives.

We work closely with our customers to provide long-term solutions to achieve the highest levels of safety, performance and reliability... **Solutions in Motion.**

MP21B

Ultra Low Emissions Multi-Engine Locomotive



- 35% or more fuel savings depending on duty cycle
- 80-90% less NOx; 70-80% less PM
- Tier 3 nonroad emissions levels
- Modular design for mobile maintenance
- Pressurized engine compartment
- High tractive effort; improved adhesion
- Integrated auto start/stop; less idling
- Redundant systems for improved reliability

MP20B/C

Low Emissions Tier 2 Locomotive



	MP21B Multi-Engine	MP20B Single Engine	MP20C Single Engine
Horsepower	2,100 bhp (700 bhp X 3)	2,000 thp	2,000 thp
Engine	Cummins QSK-19 (Tier 3 nonroad)	MTU-Detroit Diesel 12V4000 (or equivalent)	MTU-Detroit Diesel 12V4000 (or equivalent)
Traction Motors	D77 / D78	D77 / D78	D77 / D78
Maximum Speed (nominal)	50 mph	70 mph	70 mph
Continuous Tractive Effort	55,000 lbs	55,000 lbs	82,000 lbs
Starting Tractive Effort	85,000 lbs	85,000 lbs	128,000 lbs
Weight (nominal)	270,000 lbs	277,000 lbs	390,000 lbs
Length	59' 2"	59' 2"	68' 2"
Height	Plate C / Plate L	Plate C / Plate L	Plate C / Plate L
Fuel Capacity	2,500 gal	2,500 gal	3,900 gal
Alternators	1800 rpm constant speed	Kato 350 KVA variable speed	Kato 350 KVA variable speed
Air Compressor	Electric driven rotary screw	WLN	WLN
Dynamic Brake	Optional	Optional	Optional
Locomotive Control	Q-Tron QES III microprocessor	Q-Tron QES III microprocessor	Q-Tron QES III microprocessor

*1,400 bhp model (MP14B) coming soon

*Tier 2 MPXpress commuter locomotive also available



A Wabtec company

An ISO-9001:2000 registered company