



LOCOMOTIVES



GT38LC-3 Freight Locomotive

For more than 90 years we have produced the most durable, reliable and sustainable locomotive products and services in the rail industry. We design and manufacture diesel-electric locomotives for all commercial rail applications, with 65,000 EMD-powered locomotives delivered to more than 75 countries. Our technology leadership and superior performance drive our reputation for exceptional quality, service and innovation.

The EMD GT38LC-3 Locomotive offers the latest DC technology with superior adhesion and tractive effort compared to earlier models. Designed for rail lines requiring high adhesion under light axle load conditions, the GT38LC-3 is equipped with the 2,200 brake horsepower EMD 8 cylinder 710 engine, EM2000™ microprocessor control and latest design D36CC traction motors.

The GT38LC-3 incorporates reliable, service-proven systems with many years of leading operations in demanding environments. The advanced technologies of this model provide key product solutions for safety, reliability, efficiency and sustainability, while delivering life cycle cost optimization and exceptional performance in a DC locomotive package.

GT38LC-3 Freight Locomotive

Features and Benefits

- ▶ **Highly reliable and fuel efficient, 8-cylinder 710 engine with electronic fuel injection (EUI) and high efficiency turbocharger**
- ▶ **GLC Cast Bogie optimized for adhesion and ride quality**
- ▶ **26L airbrake system with automatic and independent locomotive brake**
- ▶ **“AAR Type” Control Stand to accommodate short and long hood operation**
- ▶ **Functionally Integrated Railroad Electronics (FIRE®) Computer with integrated event recorder and crash hardened memory**
- ▶ **Optional Intellitrain™ remote monitoring and diagnostic services**

EM2000™ Microprocessor Control System

- ▶ **Excitation and load control**
- ▶ **Adhesion control**
- ▶ **Engine control**
- ▶ **Diagnostic system**
- ▶ **Archived unit history data**

GT38LC-3 Locomotive Technical Details

Locomotive Traction System	DC Traction
Diesel Engine	8-710G3 T0+
Main Traction Alternator	AR6
Number of Axles	6
Traction Horsepower	1,491 kW
Maximum Speed	120 kph
Starting Tractive Effort	265 kN
Continuous Tractive Effort	245 kN
Dynamic Braking Effort	105 kN
Fuel Capacity (usable)	3,800 litres
Maintenance Interval (minimum)	92 days
Weight	82.2 - 96 mT
Axle Load	13.7 -16 mT
Track Gauge	1,000 mm
Designed for	Sub-Saharan Africa and South America

Optional Model Configurations

Other Gear Ratios Available	
Track Gauge Range	914 - 1,435 mm
Optional vacuum brake system	