



LOCOMOTIVES



GT46C-ACe Gen II 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.

Our range of EMD GT46C-ACe locomotives are engineered for best-in-class tractive effort and adhesion, while meeting Australia's demanding standards and conditions. This locomotive series integrates the EMD® 710 Engine, providing world-class reliability and fuel-efficiency and low lube oil consumption. The platform also features a redesigned crashworthy cab structure and fuel tank for operator safety, along with features for enhanced ergonomics and comfort.

Cabs are ergonomically designed to meet the visibility requirements for 5th percentile and 95th percentile people.



GT46C-ACe Freight Locomotive

Features and Benefits

The advanced technologies of the Gen II locomotive provide key solutions for safety, reliability, efficiency and sustainability, while delivering superior performance and life-cycle cost optimization.

- Highly reliable 16-cylinder 710G3C engine
 - Meets emissions standards for U.S. EPA Tier 3
 - Option to tune for maximum fuel efficiency
 - Low oil consumption compared to FDL engine
- Inverter driven accessories for improved fuel economy
- Proven AC traction system with bogie control or IAC
- Designed to meet Australian crashworthiness standards
- Best-in-class cab design for ergonomics and comfort
- Extended 184-day maintenance interval
- Significant parts commonality with previous GT46 and SD70 locomotives
- Energy management solutions available including AESS™, Continuous Idle and SmartConsist™
- Options for driver fatigue management and visual aids
- Options for in-line fueling and HOT/EOT equipment
- Option for EMD® Uptime next-generation rail predictive analytics platform
- PowerView digital EVR with options for cameras and data off-boarding
- Available for a range of applications including regular and heavy axle loads, standard and narrow gauge



GT46C-ACe Locomotive Technical Details

	GT46C-ACe	GT46C-ACe	GT46CU-ACe
Weight	134-139 t	180 t	138-150 t
Track Gauge	1,435 mm	1,435 mm	1,067 mm
Diesel Engine	16-710	16-710	16-710
Gross Power	3,356 kW (4,500 BHP)	3,356 kW (4,500 BHP)	3,356 kW (4,500 BHP)
Starting Tractive Effort	600 kN	755 kN	640 kN
Continuous Tractive Effort	520 kN	700 kN	540 kN
EAB/ECP/WDP	Yes	Yes	Yes
Fuel Capacity	9,000 l	12,000 l	8,200 l
Axle Load	22-23 t	30 t	23-25 t
Designed for	Australia	Australia	Australia