



# LOCOMOTIVES



## SD70ACe/LCi Low Clearance 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, manufacture and sell diesel-electric locomotives for all commercial railroad 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 SD70ACe Locomotive was introduced in 2005 for heavy-haul freight applications worldwide, with the SD70ACe/LCi model specially designed for low clearance mining operations. This powerful and efficient locomotive integrates the world-class reliability of the EMD 710 engine, EM2000 microprocessor control system and AC traction.

The advanced technologies of the SD70ACe provide key product solutions for safety, reliability, efficiency and sustainability, while delivering life-cycle cost optimization. This service-proven workhorse demonstrates leading performance for operating in the world's most demanding applications.

Thousands of SD70ACe locomotives operate in heavy-haul service across the globe, including North America, South America, the Middle East, Africa and Australia.

# SD70ACe/LCi - Low Clearance Freight Locomotive Features and Benefits

- ▶ Designed for low clearance mining operations
- ▶ Highly reliable 16-cylinder 710 engine, turbocharged
- ▶ Optimized for fuel efficiency
- ▶ Durable AC traction
- ▶ High adhesion, radial bogie design
- ▶ Inverter driven accessories for improved fuel economy
- ▶ Isolated cab for reduced driver exposure to noise and vibration
- ▶ EMD Functionally Integrated Railroad Electronics (FIRE™) man-machine interface
- ▶ Fire suppression system
- ▶ Extended 184-day maintenance interval
- ▶ Operates in extreme weather conditions (-40°C to 50°C)
- ▶ 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

## SD70ACe/LCi - Locomotive Technical Details

Locomotive Traction System	AC Traction
Diesel Engine	16-710G3C-T2
Number of Axles	6
Locomotive Height	4791 mm
Length Over Couplers	22,631 mm
Traction Horsepower	3210 kW
Maximum Speed	113 kph
Continuous Tractive Effort	690 kN
Starting Tractive Effort	820 kN
Dynamic Braking Effort	454 kN
Fuel Capacity (usable)	18,548 l
Maintenance Interval	184 days
Nominal Weight	195 t
Maximum Axle Load	32.5 t
Track Gauge	1,435 mm
Designed for Australia	Australia