



LOCOMOTIVES



SD70ACe-BB Eight-Axle 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 EMD SD70ACe-BB Locomotive was custom designed for Brazil's uniquely challenging operating environment. This eight-axle, meter-gauge locomotive provides increased tractive effort and capacity to haul more freight. It is also equipped with the EMD 710 engine, AC traction and a cab custom designed for operator safety and comfort.

The advanced technologies of the SD70ACe-BB provide safety, reliability, efficiency and sustainability, while delivering life-cycle cost optimization and leading performance. It joins thousands of EMD SD70ACe Series locomotives operating in demanding heavy-haul service across the globe, including North America, South America, the Middle East, Africa and Australia.

SD70ACe-BB Freight Locomotive Features and Benefits

- ▶ **Highly reliable 16-cylinder 710 engine, turbocharged**
 - > Equipped with EPA Tier 1 emissions hardware
 - > Optimized for fuel efficiency
 - > Operates on B20 (concentrations up to 20% B100 Biofuel)
- ▶ **Isolated cab for reduced operator exposure to noise and vibration**
- ▶ **High performance AC traction system**
- ▶ **EMD GBB four-axle bogie for excellent curving performance**
- ▶ **Extended 184-day maintenance interval**
- ▶ **Available with energy management technologies including Smart Consist™**
- ▶ **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-BB Eight-Axle Locomotive Technical Details

Locomotive Traction System	AC Traction
Diesel Engine	16-710G3C-T1
Number of Axles	8
Locomotive Height	4,643 mm
Length Over Couplers	24,003 mm
Traction Horsepower	3,240 kW
Maximum Speed	80 kph
Starting Tractive Effort	724 kN
Dynamic Braking Effort	350 kN
Fuel Capacity (usable)	15,200 liters
Maintenance Interval	184 days
Maximum Weight	196 mT
Axle Load	24.5 mT
Track Gauge	1,000 mm
Designed for	Brazil