



LOCOMOTIVES



SD70ACe 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 SD70ACe locomotive was introduced in 2005 for heavy-haul freight applications worldwide. 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 platform locomotives operate in heavy-haul service across the globe, including North America, South America, the Middle East, Africa and Australia.

SD70ACe Freight Locomotive Features and Benefits

- ▶ **Highly reliable 16-cylinder 710 engine**
 - > Certified through EPA Tier 3 Emissions
 - > Optimized for fuel efficiency
 - > Dynamic Gas Blending™ option available
- ▶ **Isolated cab for reduced operator and exposure to noise and vibration**
- ▶ **EM2000™ Microprocessor control system**
- ▶ **Durable AC traction**
- ▶ **Extended 184-day maintenance interval**
- ▶ **Optional high-adhesion package**
- ▶ **Available with energy management technologies including Smart Consist™**
- ▶ **Optional IntelliTrain® remote monitoring and diagnostic services**
- ▶ **SD70ACe-P4 model available with four powered axles, providing an alternative to DC with the enhanced durability and maintainability of AC technology**

New Technologies

The SD70ACe locomotive offers advanced options including the EMD Uptime predictive analytics platform to enable railroads to monitor and optimize their locomotive fleets more effectively, and natural gas kits for lower fuel costs and reduced emissions.

SD70ACe Locomotive Technical Details

| | SD70ACe |
|-----------------------------------|--|
| Number of Axles/Powered | 6/6 |
| Traction Horsepower | 3210 Kw (4300 THP) |
| Maximum Speed | 113 kph (70mph) |
| Continuous Tractive Effort | 689 kN (155,000 lbs.) |
| Starting Tractive Effort | 890 kN (200,000 lbs.) |
| Dynamic Braking Effort | 467 kN (105,000 lbs.) |
| Weight | (191 to 196 mT) 420,000 - 432,000 lbs |
| Length | 22,580 mm (74 ft, 3 in) |
| Height | 4,902 mm (16 ft, 1 in) |
| Usable Fuel Capacity | 18,550 liters (4,900 gallons) |

Designed for North America and South America. Platform for SD70ACe locomotive models worldwide.