



SD70ACe-T4

**Progress Rail**  
A Caterpillar Company



## EMD® SD70ACe-T4 — Reliability and Efficiency Built for North American Operations

For 100 years, EMD® has produced the most durable, reliable and sustainable locomotive products in the rail industry. We design and manufacture locomotives for all commercial rail applications, with over 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.

Progress Rail heard very clearly from our railroad customers that reliability and efficiency drive total cost of ownership. With that we engineered the SD70ACe-T4 locomotive to reduce NOx by an additional 80 percent and particulates by 70 percent — while delivering world-class fuel efficiency— and the leading reliability, maintainability and safety the railroads expect from EMD® locomotives.

Our new Tier 4 locomotive provides a solution specifically tailored to North American railroad operations, meeting stringent emissions regulations without the use of urea and providing substantial savings for railroad applications.

In fact, our Tier 4 locomotive is the result of the combined expertise and resources of the Progress Rail and Caterpillar engineering teams and state-of-the-art design and validation tools and facilities— all driven by the mission to achieve life cycle cost optimization for the railroads.

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CONTACT US +1 800-476-8769  
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### EMD® SD70ACe-T4 Features and Benefits

- EMD® 12-cylinder 1010™ engine
  - > Meets EPA Tier 4 standards without any aftertreatment while optimizing fuel efficiency
  - > Double-walled fuel injection system for increased safety and simplified maintenance
- Cab designed for operator safety and comfort
- Isolated powertrain for reduced noise and vibration, increased reliability and less maintenance
- Enhanced AC traction motors for improved reliability, productivity and hauling power
- Individual Axle Control for enhanced mission reliability, performance and maintenance
- Inverter driven accessories for improved fuel economy
- Motor Driven Air Compressor
- High Capacity Oil Filtration
- Advanced electronics for improved asset utilization, optimized efficiency and performance



### EMD SD70ACe-T4 Specifications

|                                   |               |
|-----------------------------------|---------------|
| <b>Number of Axles / Powered</b>  | 6 / 6         |
| <b>Brake Horsepower</b>           | 4,500 BHP     |
| <b>Traction Horsepower</b>        | 4,400 THP     |
| <b>Maximum Speed</b>              | 75 mph        |
| <b>Continuous Tractive Effort</b> | 175,000 lbs.  |
| <b>Starting Tractive Effort</b>   | 200,000 lbs.  |
| <b>Dynamic Braking Effort</b>     | 105,000 lbs.  |
| <b>Weight</b>                     | 428,000 lbs.  |
| <b>Length</b>                     | 76 ft. 8 in.  |
| <b>Height</b>                     | 15 ft. 11 in. |
| <b>Fuel Capacity (usable)</b>     | 4,800 gal.    |
| <b>Designed for</b>               | North America |