

LOCOMOTIVES



SD70ACe-T4[™] Freight Locomotive

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.

SD70ACe-T4 Freight Locomotive Features and Benefits

► EMD 12-cylinder 1010TM engine

> Meets EPA Tier 4 standards without urea 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

SD70ACe-T4 - Locomotive Technical Details

	SD70ACe-T4
Number of Axles / Powered	6 / 6
Brake Horsepower	4,600 BHP
Traction Horsepower	4,400 THP
Maximum Speed	75 mph
Continuous Tractive Effort	175,000 lbs.
Starting Tractive Effort	200,000 lbs.
Dynamic Braking Effort	105,000 lbs.
Weight	428,000 lbs.
Length	76 ft. 8 in.
Height	15 ft. 11 in.
Fuel Capacity (usable)	4,800 gal.
Designed for	North America

Design, Development and Validation

The Caterpillar CAVE[™] – an immersive visualization system – was integral to the design and development of the SD70ACe-T4 locomotive. This highly advanced technology provides a 3D, 1:1 scale, interactive environment allowing our design experts, service professionals and railroad customers to walk through and evaluate the locomotive in virtual reality.



QUALITY. RELIABILITY. INNOVATION.

Progress moves you forward. 708.387.5853 | progressrail.com | y @Progress_Rail