

The World's Largest Battery-Electric Vehicle

Progress Rail is proud to offer the EMD® Joule series of fully battery-powered locomotives, including the SD70J-BB model boasting more than double the energy storage of competing products.

FEATURES & BENEFITS

INTEGRATED TECHNOLOGIES

SUSTAINABILITY

FUNDING

[CONTACT SALES](#)

EMD® Joule Battery-Electric Locomotive



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 is proud to offer the EMD Joule battery-electric locomotive series, available as new build or repowers. EMD Joule locomotives support a wide range of railway operations with battery capacities up to 14.5 MWh. Applications include:

- Switching/shunting yards
- Regional service
- In consist with diesel-electric locomotives

Joule locomotives recover energy through dynamic braking. When dynamic braking is activated to control train speed, the batteries are charged, saving what would otherwise be wasted energy. Alternatively the batteries can be charged through our range of wayside charging options tailored to meet operational needs.

Our growing family of zero exhaust emissions locomotives is just one way Progress Rail helps our customers achieve their sustainability goals.

CHARGING STATION BROCHURE

Available with **more than double**
the energy storage of competing products



FEATURES & BENEFITS



New or repower
options available



Very low noise
(< 70db) and vibration



AC traction with
individual axle control



Regenerative
braking



Inverter-driven
auxiliary equipment



Motor-driven rotary
screw air compressor

INTEGRATED TECHNOLOGIES

Progress Rail's combination of advanced rail technologies can deliver customers meaningful fuel savings, from 33% all the way to 100%.

Energy savings are critical, especially when it comes to battery-electric locomotives. That's where our technologies such as Talos™, Nitro, PowerView and others come into play and help maximize operating efficiencies. These technologies can also help save fuel and energy in hybrid applications where both diesel and batteries are used. Contact our sales team to learn which combination of solutions would be best for your application.



Talos™ Train Automation

Automation leverages machine learning and artificial intelligence to encode locomotive engineer behavior, analyz...

[LEARN MORE >](#)

Nitro Suite - Decision Support System

Support System augments the capacity of humans to objectively find the best course of action.

[LEARN MORE >](#)

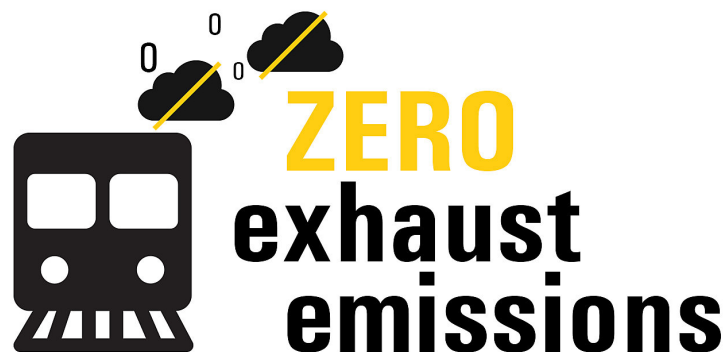
PowerView™ Suite

Our PowerView™ suite of products helps protect your people and assets, and save valuable time and money. From our locomotive ...

[LEARN MORE >](#)

SUSTAINABILITY

Progress Rail, in conjunction with our parent company Caterpillar, shares the concerns of governments and the public about the risks of climate change and supports global efforts to mitigate its impact. We are committed to a reduced-carbon future, both in our operations and helping customers reach climate-related goals. Our EMD Joule helps contribute to those goals, producing zero exhaust emissions while producing the same or more horsepower and tractive effort as a diesel.



SUSTAINABLE SOLUTIONS

Sustainability is part of who we are and what we do every single day. We recognize progress involves a balance of environmental stewardship, social responsibility and economic growth. We consider this as we work toward a vision of a world in which people's basic needs – such as shelter, clean water, education and reliable energy – are fulfilled.

LEARN MORE

Grants and funding may be available depending on your location and regulations. We are here to help you in any way with those regulatory processes. Contact us today to learn more about options and availability.

- Grants or Incentive Funding are offered by local, state and federal agencies
- Most funding is directly related to improving emissions
- Funding is available to both private business and government agencies
- With the passing of the Bipartisan Infrastructure Law (BIL), there is more funding available at all levels
- Most funding opportunities are allocated by a competitive bid process

**Identify**

Identify the location(s), equipment and duty cycle

**Contact**

Contact us for incentive funding opportunities

**Provide**

We provide you with the opportunity, pricing and grant information correlated to your operations





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SALES CONTACTS

Expand All

FREIGHT LOCOMOTIVE SALES ▼

PASSENGER LOCOMOTIVE SALES ▼

REPOWERED LOCOMOTIVE SALES



LOCOMOTIVE PARTS & COMPONENTS



Sustainability

Sustainability is part of who we are and what we do every single day. We recognize progress involves a balance of environment...

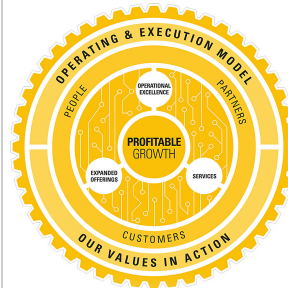
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PR Uptime™ Suite

PR Uptime™ combines our Locomotive Monitoring Center (LMC) experts, Uptime Cloud for secure data distribution and storage, Up...

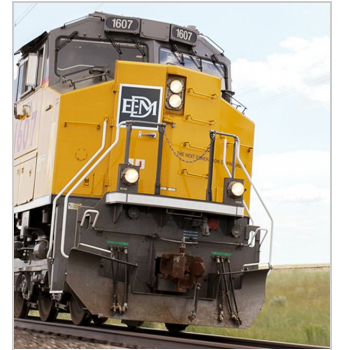
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Strategy

Our Worldwide Code of Conduct, first published in 1974, defines what we stand for and believe in, documenting the uncompromis...

[LEARN MORE >](#)



Talos™ Train Automation

Talos™ Train Automation leverages machine learning and artificial intelligence to encode locomotive engineer behavior, analyz...

[LEARN MORE >](#)

EMD® PARTS CUSTOMER SERVICE

Parts Hotline: 1-800-255-5355

[EMAIL](#)