

New 710ECO Repower Products Provide High Performance for Low and Medium Horsepower Applications

Power, Performance & Innovation

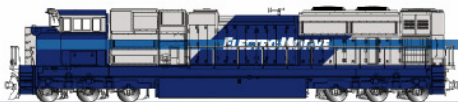
For over 80 years these qualities have driven Electro-Motive Diesels to be the premier provider of locomotive technology. That's still true today.

This focus on innovation has created the new 710ECO™ product line—offering solutions from 2000 to 3150bhp for repowering low and medium horsepower locomotives. Railroads can maintain their rolling stock equity while benefiting from the latest microprocessor-controlled engine technology for lower emissions, increased fuel economy, greater reliability, easier serviceability, and predictable maintenance costs.



710ECO Repower Benefits

- Environmentally friendly.
 - ✓ EPA certified Tier 2 and beyond.
- Minimizes fuel consumption while maintaining emission compliance.
 - ✓ Fuel savings up to 25%.
 - ✓ Greater than 50% lube oil savings.
- Flexible software platform to achieve future emission compliance.
 - ✓ Specific corridors can be tuned for reduced emissions or maximum fuel economy.
- Microprocessor electronic control and adhesion system—proven traction control already applied to over 5000 locomotives.
 - ✓ Optimal adhesion in all operating conditions.
 - ✓ Protects against excessive wheel slip.
 - ✓ Operates locomotive diagnostics.
- Specifically designed for the Railroad Industry with established technology that has demonstrated over 20 years of engine reliability.
 - ✓ 184-day maintenance cycle.
 - ✓ 15,000MWh overhaul cycle.
- Parts standardization offers commonality with existing 710 engine equipped locomotives
 - ✓ 90% parts commonality
 - ✓ Labor personnel familiar with technology
 - ✓ Simple change out and low cost replacement
 - ✓ Reductions in inventory, maintenance, and operating expense.
- Fully integrated Automatic Engine Start Stop (AESS) provides superior fuel savings while reducing emissions and noise.
 - ✓ Average savings of 16 gallons of fuel per day per locomotive.
 - ✓ Reduces idle time and emissions.



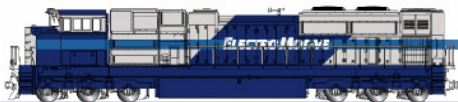
Insist on genuine EMD parts!

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710ECO™ Repower Technical Specifications

Locomotive Model	GP22ECO	SD32ECO
Engine Model	8-710G3A-T2	12-710G3B-T2
Engine Type	Two-cycle – 45°	Two-cycle – 45°
Brake Horsepower	2150	3150
Cylinders	8	12
Cylinder Displacement	710 cubic inches	710 cubic inches
Compression Ratio	18:1	18:1
Bore & Stroke	9.0625 in x 11 in	9.0625 in x 11 in
Fuel Injectors	EUI	EUI
Charge Air	Single Turbo	Single Turbo
Low Idle Speed	200 rpm	200 rpm
Full Speed	904 rpm	904 rpm
Emissions Certification	US EPA Tier 2	US EPA Tier 2
Alternator	AR10	AR10
Companion Alternator	CA6	CA6



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