ELECTRO-MOTIVE

LOCOMOTIVE PRODUCTS

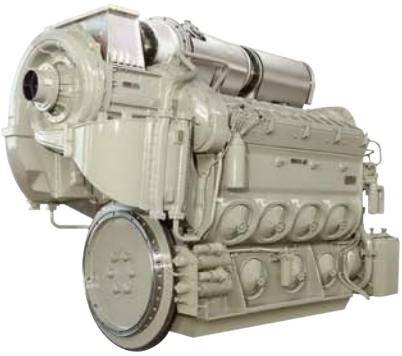
New 710ECO Repower Products Provide High Performance for Low and Medium Horsepower Applications

Power, Performance & Innovation
For 90 years these qualities have driven Electro-Motive Diesel 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 equipment 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.



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

ELECTRO-MOTIVE®

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