EMD Powered Products

Stewart & Stevenson, authorized distributor for Electro-Motive Diesel (EMD), specializes in the marketing and distribution of medium speed diesel engines for marine propulsion, drilling and power generation applications, serving the U.S. Gulf Coast and Inland River System.

Utilizing engineering design expertise, modern manufacturing facilities and skilled personnel, Stewart & Stevenson produces EMD powered products for the oil and gas, power generation, marine and industrial markets.

As a leading manufacturer of EMD-powered systems, Stewart & Stevenson meets the needs of customers around the globe.

- Oil and gas exploration and production companies
- Ship building industry
- Major governments for both civil and defense installations
- Electric utilities
- Industrial and institutional facilities
- Engineering and construction firms
Commercial, Naval and Government Vessels

Custom marine propulsion packages from Stewart & Stevenson feature EMD Series 710 marine engines that offer 2000 to 5000 continuous horsepower at 900 rpm. Serving both the blue water and brown water market, they power water ferries, offshore tugboats, offshore supply vessels, harbor tugs and towboats.

- New units will feature the updated E23 engine.
Marine Packages and Stationary Power

Custom Marine Packages for Offshore Rigs
Stewart & Stevenson builds power generation packages using 8, 12, 16 and 20 cylinder EMD 710 engines coupled with electronic controls and diagnostic systems. The U.S. EPA Tier 3 and IMO Annex VI Tier 2 Emissions Compliant EMD engines offer continuous power ratings ranging from 2000 up to 5400 horsepower. Skid mounted marine drilling units provide power for drilling, dynamic positioning, propulsion and ships service generators on offshore rigs.
- EMD generators offer 1440 to 3850 kWe of ships service power.
- EMD drilling power units offer from 2200 to 5500 bhp.
- New units will feature the updated E23 engine.

Stationary Power & Industrial Applications
Electro-Motive Diesel powered stationary units can provide 800 to 5000 brake horsepower for Generator Set and Mechanical Drive applications using two-cycle roots blown or turbocharged engines. These heavy duty units have been applied as base load generating sets in remote locations, emergency stand-by sets in hospitals, land-based drilling, nuclear power generating plants and pipeline and dredge pump applications.
- New units will feature the updated E23 engine.
## E23 Ratings and Technical Data

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### E 23 EPA Tier 4 and IMO III Status

EMD is developing, testing and compiling paperwork for EPA certification of the Tier 4, IMO III version of the EMD 710 Series E 23 engine.

Tier 4 IMO III features and benefits:
- Same footprint as EPA Tier 3 product
- Next generation accessory rack
- Filterless Mechanical Lube Purification with Oil Centrifuge
- Closed Crankcase Ventilation System

Scope of supply includes:
- Lube Oil Centrifuge
- Closed Crankcase Ventilation System
- SCR Module
- DEF Dosing Cabinet
- EMDEC Enhanced Enclosure
- DEF Mixing Tube
- All Required Wiring Harnesses from the Dosing Cabinet, excluding power
- Flexible Connections between engine exhaust outlet adapter, mixing tube and SCR Module
- Thermal Insulation of Turbo Exhaust Outlet Adapter, SCR Module, mixing tube and flex connections

Distributor supplied items:
- DEF System Tank and Piping
- Electrical Power to Dosing Cabinet
- Compressed Air System
- Exhaust system (after SCR outlet)
- DEF Transfer Pump, where needed
Control Systems

Stewart & Stevenson custom builds engine control and monitoring systems for EMD power generation systems. Our custom built panels are engineered to meet the needs of each specific application and range with the following features:

- 316 Stainless Steel enclosure construction
- Stainless steel, liquid filled pressure gauges with isolation valves
- 30 mm operator interface
- Color graphic touch displays with historical alarm logging
- EMDEC (Electro-Motive Diesel Engine Control) J1939 CAN communication interface
- Remote data monitoring via integrated communications
- Society Class Approval
Comprehensive Engineering
Mechanical and electrical engineers, CAD designers and configuration administrators provide a 3-D engineering documentation package that includes:

- System schematics for all electrical and mechanical operating systems
- General arrangement and interface control diagrams to assist with location critical installation details
- Interactive CD-ROM technical manuals that facilitate operating, troubleshooting and training.

Finite element analysis ensures design integrity; virtual prototyping enables flexible and fast configuration changes; design assistance with vessel arrangement ensures proper installation of all equipment subsystems.

Advanced Control System Design
Advanced control system designs increase the durability, efficiency and safety of power generation products. This includes:

- PLC-based control systems housed in stainless steel NEMA enclosures
- Color touch screen HMI panels that permit clear and intuitive access to all genset control and monitoring functions
- MODBUS and other protocols that enable remote monitoring and diagnostics of all vital generator functions

Manufacturing
Utilizing many years of EMD product engineering, design and manufacturing expertise, Stewart & Stevenson provides EMD Powered Products that meet the highest industry standards for quality and performance. True to the company’s century-plus service tradition, the dedicated Stewart & Stevenson team provides unparalleled product support before and after the sale. In addition to general maintenance, service and repair, our service center has the capability to completely rebuild AC and DC generators, engines, electric motors and control panels. Certified technicians and parts representatives are available 24/7/365 to serve you.
For EMD Powered Product Solutions, Contact Us Today

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Stewart & Stevenson EMD Distributor Territory

**U.S. GULF COAST**
- Alabama
- Arkansas
- Colorado
- Louisiana
- Mississippi
- New Mexico
- Oklahoma
- Tennessee
- Texas