Stewart & Stevenson, established in Houston, Texas in 1902, serves business and industry with system solutions and services. We have been in the business of designing and building oilfield equipment since the 1950s.

Today, Stewart & Stevenson partners with international equipment manufacturers to offer C1 D2, IEC Zone 2 and ATEX certified offshore oilfield solutions that meet global oilfield industry guidelines for personnel and environmental safety.

Our risk mitigation solutions include:
- Diesel Engines
- Generator Sets
- Switch Gear
- Industrial & Power Drive Systems
- Pumps
- Air Compressors
- Torque Converters
- Transmissions
- Material Handlers (Forklifts)

Utilizing emission-compliant MTU and DEUTZ engines, for which we are authorized distributors, we build diesel powered oilfield equipment that is packaged for classified areas or hazardous environment operation.

The three definitions of these areas are as follows:
- **Hazardous Area** – Any area with the potential to have an EXPLOSIVE atmosphere. As defined by the National Electrical Code (NEC) – “Locations where ignitable concentrations of flammable gases or vapors, flammable liquids, combustible liquids, or combustible dust, fibers or flyings, either in suspension in the air or in other accumulations that present explosion or fire hazards, exist, or could exist.”

  - **Class I, Division 1** – An area where ignitable concentrations of combustible GAS or VAPORS may exist in normal operations, as a result of standard maintenance or repairs or leakage (Hazardous atmosphere is EXPECTED).
  - **Class I, Division 2** – An area where hazardous materials are handled, processed or stored, but would only escape in the event of a rupture or failure of piping or containment, or an area where an explosive atmosphere is normally prevented by ventilation but may exist if the ventilation fails (Hazardous atmosphere is NOT expected but the potential exists).
Engines, Electrical Drive Systems & Air Compressors

MTU Diesel Engines and Power Generation
US EPA Tier 3 and Tier 4 emission-compliant MTU Series 1000, 1300, 1500, 1600, 2000 and 4000 engines, incorporating the latest technology in explosion-proof protection with controls for safety shutdown and self-diagnostics, utilized as:

- Essential vessel power, dredge power, emergency and auxiliary power, prime power packages, fire pump driver packages, winch, crane and hoist power
- Power generation for deepwater semisubmersibles, jack-ups, drillships, FPSO and hotel power for offshore habitation platforms
- Power generation offering 432–3755 bhp (661–2662 kWe) certified to ABS, DNV and IMO/US EPA standards
- Main propulsion, pumping, and ships service on ferries, offshore tugboats, offshore supply vessels, harbor tugs and towboats
- Stewart & Stevenson C1D1-60 barge pump package, featuring MTU Series 60 Tier 3 emission-compliant engine, is Coast Guard approved for installation in Class 1 Division 1 (Groups C&D) hazardous weather deck locations aboard Coast Guard certificated subchapter D&O barges, Certificate E2-0902470
DEUTZ Diesel Engine, Pump and Power Pack Packages

EPA Tier 2/CARB and Tier 3 emission-compliant DEUTZ engines incorporating the latest technology in explosion proof protection:

- DEUTZ powered C1 D2 packages for hydraulic power pack applications

Diesel Engine Fire Pump Driver Packages

Emission-compliant engine packages incorporating the latest technology in fire protection driver applications:

- 37–617 bhp (27-460 kWe) packages meeting NFPA-20, Underwriters Laboratories (ULI & CUL) and Factory Mutual regulations

MTU Diesel Engine Fire Pump Drivers

API 610 designed Centrifugal Pumps for oil and gas installations.

- Fire Water Pump Systems meet NFPA 20 regulations:
  Diesel direct-driven dry mounted pump; Diesel direct-driven deepwell pump with angle gear (caisson mounted); Diesel electric-driven deepwell pump (submerged electric motor) and Diesel electric-driven dry mounted pump
- Seawater Lift Pumps: line shaft, submerged electric and dry-mounted in seawater-resistant material
- Process Pump Systems for utility, cooling medium, heating medium, condensate, crude oil transfer, reject, ballast, drain, bilge, sump pump applications
Diesel Engine Hazardous Location Conversions
- Provides explosion proof protection for engines and generators operating in hazardous environments.
- Unique system of protection controls surface and exhaust temperatures, prevents spark and flame emission and all overspeed conditions.
- Conversions are classified to Global Safety Standards for use in North American Class 1, Divisions 1&2, Groups C & D Environments and European ATEX 94/9/EX Directive for Zones 1&2.

Electrical Drive Systems and Switch Gear
Stewart & Stevenson designed and manufactured Variable Frequency Drive Systems, SCR DC Drive Systems, Medium Voltage Switchgear, Medium Voltage Soft Starter and VFD for Motor, are applied to:
- Power generation, including frame and aero derivative turbines
- Diesel and gas engines
- Drilling rig power
- Pump and compressor pipeline
- Support industrial, commercial, military and marine businesses
- Meet ABS, ANSI, CSA, DNV, IEEE, NEC, NEMA, USCG, IEC, Lloyds Register standards

Air Compressors
Stewart & Stevenson offers an extensive range of low and high-pressure compressor and booster packages from 70 cfm to 2200 cfm and from 60 to 5000 psig.
- Containerized rig safe offshore package offers 375–2200 cfm, up to 150 psig
- Zone II compressor range from 375 – 1800 cfm; 150 psig; operated with standard exhaust gas system flame traps, 3GP or exhaust gas system packages that negate the need for flame traps.
Torque Converters and Transmissions
As authorized distributor of Allison Transmission and the exclusive manufacturer of Industrial Torque Converters, we offer:

- SSTC 300 to 900 Series Torque Converter applied to oilfield equipment, cranes, drilling rigs, drag lines, pump drives, winches and hoists
- Allison Oil Field Series of fully automatic transmissions: 4500 OFS, 4700 OFS
- Certified for well servicing, rig propulsion, auxiliary power for high pressure pumping (cementing, nitrogen) and hoisting
- Zone II certification for transmission and control components for offshore field operations are available from Stewart & Stevenson

Summary
Foresight and innovation have been at the heart of Stewart & Stevenson’s growth as a global manufacturing, service and distribution leader. Talented Stewart & Stevenson individuals continue to conceive, design, innovate and implement technologically-superior equipment to fulfill client requirements. With the global shift to a higher level of offshore rotating equipment safety for both equipment and personnel, Stewart & Stevenson has teamed with international equipment manufacturers to develop and implement risk-mitigation solutions.
Certifications
Contact Us Today

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