

Downhole Services

Explore the possibilities with our customized applications



Tackling your toughest jobs.

We deliver a wide array of magnetic solutions for the harsh environments encountered in the downhole service industry, both on and offshore, from shallow wells to geothermal. Our design engineers are seasoned veterans in designing both permanent magnet & electromagnet components and systems that are ready to tackle your toughest jobs. Our standard design criteria for encased magnetic assemblies for downhole applications is 185°C and 20,000 psi. Our services include full magnetic circuit design, hermetic encasement, vacuum potting for the elimination of trapped air, TIG and laser welding, and magnetic field mapping of the final assembly. We routinely fabricate assembly encasements using high strength alloys such as Titanium, Inconel, Incoloy, Hastelloy and Stainless Steel.

- ▶ Downhole Turbine Generators
- ▶ Tools Rated for 185°C and 20,000 psi
- ▶ N.A.C.E. Compliant Encasement
- ▶ Nuclear Magnetic Resonance Assemblies
- ▶ Magnetic Couplings & Positioners
- ▶ CCL Magnets and Assemblies
- ▶ Decentralizers
- ▶ Electromagnet Assemblies
- ▶ Ditch Magnets
- ▶ Seismic Transducer Assemblies

Dexter Magnetic Technologies Oil and Gas Business Unit

About Us

Our Oil & Gas Business Unit is dedicated to the development and commercialization of industry-changing products for the downhole and pipeline service markets. Product development is headquartered at our oilfield dedicated Research and Development facility in Rockwall, Texas. The Rockwall R&D facility operates a flow loop and data acquisition system for evaluation of downhole tools under full flow conditions and to characterize erosion as well as product life.

To better service our Oil & Gas market customers, our engineering group utilizes state-of-the-art solid modeling and multiphysics software packages such as SolidWorks, ANSYS and Lorentz to ensure optimized operation in the real-world operating environment.

Additional Downhole & Pipeline Services Solutions:

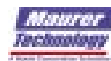
- ▶ Sealless SSSV Linear Actuation Couplings
- ▶ Bypass Valve Actuators
- ▶ Synchronous and Non-Synchronous Actuators
- ▶ Fishing Tools
- ▶ Geophone Magnets
- ▶ Non-Destructive, Explosion Proof Coil Tubing Inspection
- ▶ Tramp Metal Collectors
- ▶ MFL Inspection Design and Devices for Pipeline and Coiled Tubing

Sample Applications



Dexter UnderCurrent™
Downhole Turbine Generator

Co-developed with
Noble Downhole Technology



HALLIBURTON
Halliburton's DepthStar®
Tubing-Retrievable Safety Valve

Design assistance provided by
Dexter Magnetic Technologies

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