Dietz Electric Expands Custom Motor Modification Capabilities

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MILWAUKEE, WI - March 17, 2026 -
Dietz Electric has announced the expansion of its custom motor modification services, strengthening the company's ability to deliver tailored electromechanical solutions for industrial and commercial clients. The enhanced capabilities include advanced motor rewinding, voltage conversion, speed modification, and torque optimization to meet the increasingly specialized demands of modern manufacturing and processing operations.

The expansion represents a significant investment in both equipment and technical expertise, allowing Dietz Electric to handle a broader range of motor types and specifications. The company has added new testing and diagnostic equipment to its facility, enabling more precise analysis of motor performance characteristics before and after modification work is completed.

"Our clients are operating in environments where off-the-shelf motors simply do not meet their requirements," said Mark Henson, Owner of Dietz Electric. "By expanding our custom modification capabilities, we can now address a wider spectrum of motor challenges, from voltage conversions for legacy equipment to complete performance overhauls that extend the operational life of critical machinery."

Industrial operations across multiple sectors increasingly require motors that perform outside standard factory specifications. Equipment aging, changes in production requirements, and the integration of new automation systems often create situations where existing motors must be modified rather than replaced. Custom motor modification provides a cost-effective alternative to full motor replacement, particularly for specialized or hard-to-source units.

Dietz Electric's expanded services encompass several key areas of motor customization. The company now offers enhanced rewinding services for both AC and DC motors, allowing for changes in voltage ratings, speed configurations, and insulation classes. These modifications enable industrial clients to adapt existing motor assets to new operational parameters without the lead times and costs associated with ordering custom-built replacements.

The company has also strengthened its capabilities in motor retrofitting, which involves updating older motor designs with modern materials and winding techniques to improve efficiency and reliability. This approach is particularly valuable for facilities operating legacy equipment where original replacement parts are no longer available from manufacturers.

"Every motor modification project begins with a thorough engineering assessment," Henson said. "We evaluate the existing motor condition, the desired performance specifications, and the operating environment to develop a modification plan that delivers measurable results. Our goal is to return a motor that not only meets the new requirements but exceeds the reliability of the original configuration."

The expansion also addresses growing demand for energy efficiency improvements in industrial motor applications. Motor systems account for a significant portion of industrial electricity consumption, and properly executed modifications can reduce energy usage while maintaining or improving output performance. Dietz Electric's engineering team works with clients to identify efficiency gains through optimized winding designs, improved insulation systems, and updated bearing configurations.

Quality assurance remains central to the company's modification process. Each modified motor undergoes comprehensive testing, including insulation resistance measurements, winding resistance checks, vibration analysis, and full-load performance verification. These protocols ensure that modified motors meet or exceed original equipment manufacturer standards before being returned to service.

Dietz Electric's custom motors services are available for a wide range of applications, including pumps, compressors, conveyors, fans, and specialized processing equipment. The company serves clients across manufacturing, water treatment, food processing, and general industrial sectors, providing both scheduled modification projects and emergency turnaround services for critical equipment failures.

The investment in expanded capabilities reflects broader trends in the industrial motor service industry. As supply chain constraints continue to affect the availability of new motors and replacement parts, more facility managers are turning to custom modification as a practical solution for maintaining operational continuity. The ability to modify and upgrade existing motors reduces dependency on new equipment procurement timelines.

Dietz Electric has served the industrial and commercial sectors with electric motor sales, service, and repair for decades. The company provides comprehensive motor solutions, including preventive maintenance programs, emergency repair services, and now an expanded range of custom modification capabilities.

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