



Dietz Electric Highlights Customization Options for Stearns Brake

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Dietz Electric, a specialized provider of electric motor and brake solutions, offers extensive customization options for Stearns electromagnetic brakes to meet the specific operational demands of industrial facilities across multiple sectors. The company provides tailored brake configurations designed to address the unique torque, voltage, and environmental requirements that standard catalog units may not fully satisfy.

Stearns spring-set, electrically-released brakes are widely used on electric motors powering conveyor systems, cranes, packaging equipment, and material handling machinery. These electromagnetic holding and stopping brakes engage automatically when power is removed, making them essential for applications where load control and personnel safety depend on reliable motor braking. While standard configurations serve many general purposes, certain operating environments call for modifications that account for factors such as unusual voltage supplies, extreme temperatures, corrosive atmospheres, or non-standard motor frame mounting arrangements. Dietz Electric customization of Stearns Brakes enables facilities to maintain precise torque ratings and consistent engagement without compromising on the specifications their equipment requires.

The customization process begins with a detailed assessment of the application. Engineers evaluate the mechanical load, duty cycle, operating environment, and electrical supply to determine which modifications will deliver optimal braking performance. Common customization requests include alternative voltage coils, special friction materials for high-temperature environments, corrosion-resistant coatings for washdown or chemical exposure settings, and modified mounting configurations to fit existing equipment footprints.

"Every industrial operation has its own set of challenges, and a brake assembly that works perfectly in one motor may not be the right fit for another," said Mark Henson, Owner of Dietz Electric. "We work closely with maintenance teams and engineers to identify exactly what each application demands and then configure the Stearns brake to match those requirements."

Beyond initial configuration, Dietz Electric provides support for retrofitting existing Stearns brake installations. Facilities that have experienced changes in production speed, load capacity, or environmental conditions often find that their original brake specifications no longer align with current operational realities. Rather than replacing entire motor-brake assemblies, customized modifications to coils, armature plates, and friction discs can restore or improve performance while extending the useful life of existing equipment.

The ability to source and configure replacement coils, armature assemblies, friction discs, and endbell-mount hardware for specific Stearns brake models allows Dietz Electric to address both common and uncommon application requirements. This includes spring-set, electrically-released configurations used in safety-critical applications where the brake must engage automatically upon loss of power to the coil ? a feature essential in overhead crane, hoist, and vertical-lift operations where an uncontrolled load drop could endanger personnel.

Industrial sectors that frequently benefit from customized Stearns brake solutions from Dietz Electric include food and beverage processing, where washdown environments demand stainless steel hardware and sealed coil enclosures, and mining and aggregate operations, where heavy dust infiltration and extreme vibration place additional stress on friction surfaces and air gap tolerances. Manufacturing facilities running continuous or high-cycle operations also rely on custom friction material selections to manage heat buildup at the disc-and-pressure-plate interface and extend service intervals between air gap adjustments..

"The goal is always to match the brake assembly to the motor and the application rather than forcing the application to work around a standard catalog unit," Henson added. "When facilities invest in properly configured braking solutions from the start, they typically see fewer unplanned shutdowns and lower long-term maintenance costs."

Dietz Electric maintains an inventory of Stearns brake components and assemblies to reduce lead times for customized orders. The company also provides technical guidance on brake selection for new motor

installations, helping project engineers specify the correct model, static and dynamic torque rating, coil voltage, and mounting configuration before equipment is commissioned. This proactive approach reduces the likelihood of performance issues during startup and early operation.

Proper brake maintenance remains a critical factor in equipment reliability regardless of configuration. Dietz Electric offers inspection and reconditioning services for Stearns brakes that have been in service, including coil testing, friction surface evaluation, and air gap measurement. These services complement the initial customization by ensuring that modified brakes continue to perform within their designed parameters throughout their operational life.

For more information, visit the Dietz Electric website.

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