APPLICATION BULLETIN

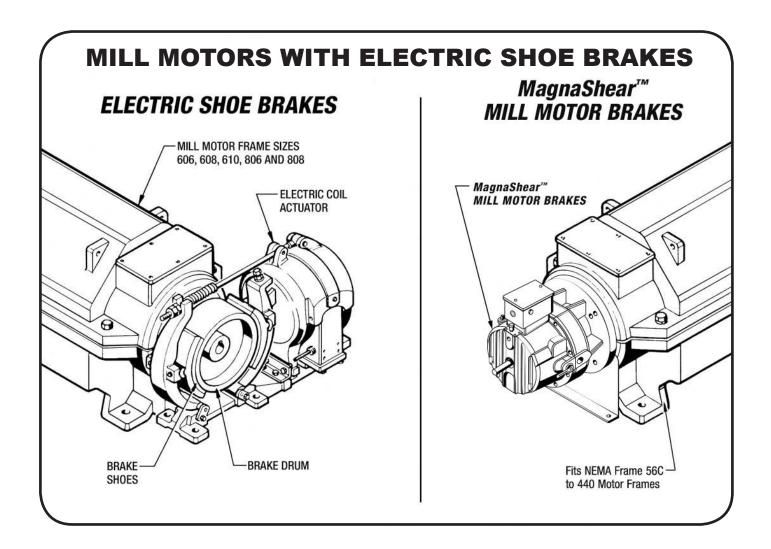


APPLICATION: Mill Motors With Electric Shoe Brakes

INDUSTRY: Steel, Aluminum & Copper Mills,

Zinc Smelting Foundries, and Heavy Machinery

PRODUCT: Oil Shear MagnaShear™ Mill Motor Brake



MILL MOTORS WITH ELECTRIC SHOE BRAKES

WHERE THEY ARE USED: Mill motors with electric shoe-type brakes are typically used in heavy industry, particularly steel mills and foundries. The motors are usually DC voltage, in the 600 and 800 frame sizes, double ended with tapered shafts. Brakes commonly used are GE, Westinghouse, Cutler Hammer, etc.

HOW THEY WORK: Electric shoe-type mill motor brakes are normally located on the fan end of the mill motor. The brake consists of a drum mounted on the tapered shaft, a pair of brake shoes which clamp to the drum, and a large electric coil which releases the brake.

The *MagnaShear*™ Mill Motor Brake has a clamped split quill which provides 360 connection to the tapered shaft, and also locates the brake on the shaft. A torque arm is attached to the floor or other structure to prevent rotation. The *MagnaShear*™ brake has a multiple disc braking surface design and is spring set - electric release (fail safe).

PROBLEMS SOLVED: The **MagnaShear**™ **Mill Motor Brake** can be used to retrofit in the field quickly and easily. It eliminates the constant adjustment and changing of brake shoes, as well as the need for an expensive large coil that is adversely impacted by ferrous dust and scale. Totally enclosed **MagnaShear**™ is not affected by dust, dirt, water, oil, or other contaminants inherent in most mill environments. Oil Shear technology makes the brake very smooth, with precise stopping accuracy over a long service life.

IMPORTANT FEATURES:

- New mounting features allow for simple retrofit in the field.
- Oil Shear Technology provides smooth and precise stops.
- Adjustments not required during the life of the brake.
- No expensive coils to wear out and replace.
- Totally enclosed, sealed design protects the unit from contaminants.
- Up to 1,250 Lb.Ft. torque.
- Optional mounting for tach generator when required.





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