

# APPLICATION BULLETIN



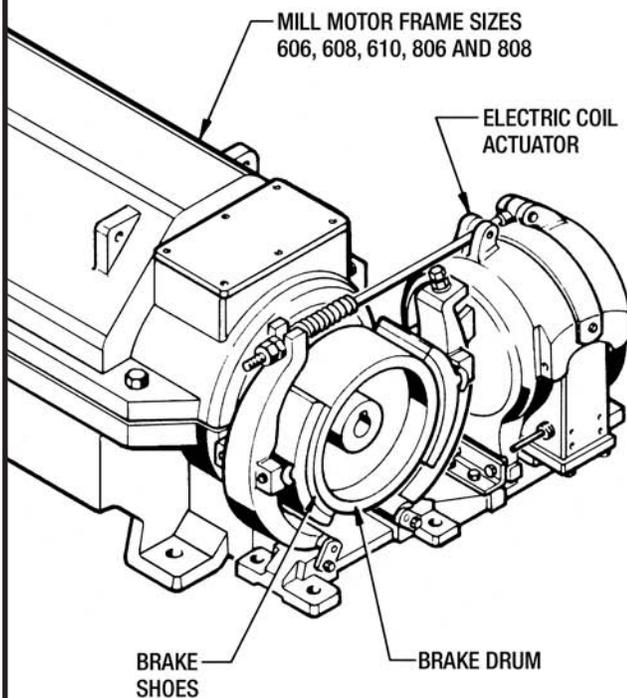
**APPLICATION:** Mill Motors With Electric Shoe Brakes

**INDUSTRY:** Steel, Aluminum & Copper Mills; Zinc Smelting Foundries and Heavy Machinery

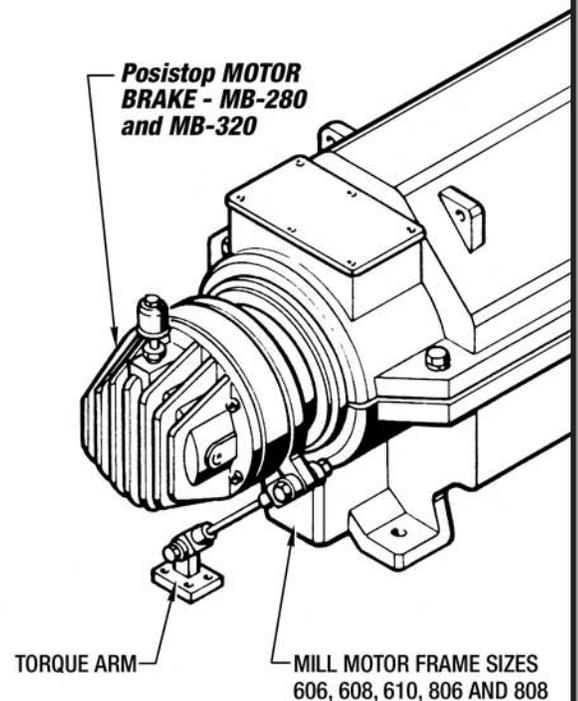
**PRODUCT:** Oil Shear *Posistop* Mill Motor Brake

## MILL MOTORS WITH ELECTRIC SHOE BRAKES

### ***ELECTRIC SHOE BRAKES***



### ***Posistop 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 **Posistop Mill Motor Brake** has a bearing mounted hub which mounts 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 **Posistop Brake** has a multiple disc braking surface design, and is spring set - air release.

**PROBLEMS SOLVED:** The **Posistop Mill Motor Brake** can be used to retrofit in the field quickly and easily. Constant adjustment and changing of brake shoes is eliminated. The **Posistop Brake** is totally enclosed, so it is not affected by dust, dirt, water, oil or other substances inherent in most mill environments. There is no large coil which can be adversely affected by ferrous dust and scale. **Oil Shear** technology makes the brake very smooth, with precise stopping accuracy over long periods of time.

## 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 450 Lb.Ft. torque.
- Optional mounting for tach generator when required.



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