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 MOTOR FRAME SIZES 606, 608, 610, 806 AND 808

ELECTRIC COIL ACTUATOR

BRAKE SHOES

BRAKE DRUM

TORQUE ARM

MILL MOTOR FRAME SIZES 606, 608, 610, 806 AND 808

Posistop MOTOR BRAKE - MB-280 and MB-320
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.