

APPLICATION BULLETIN

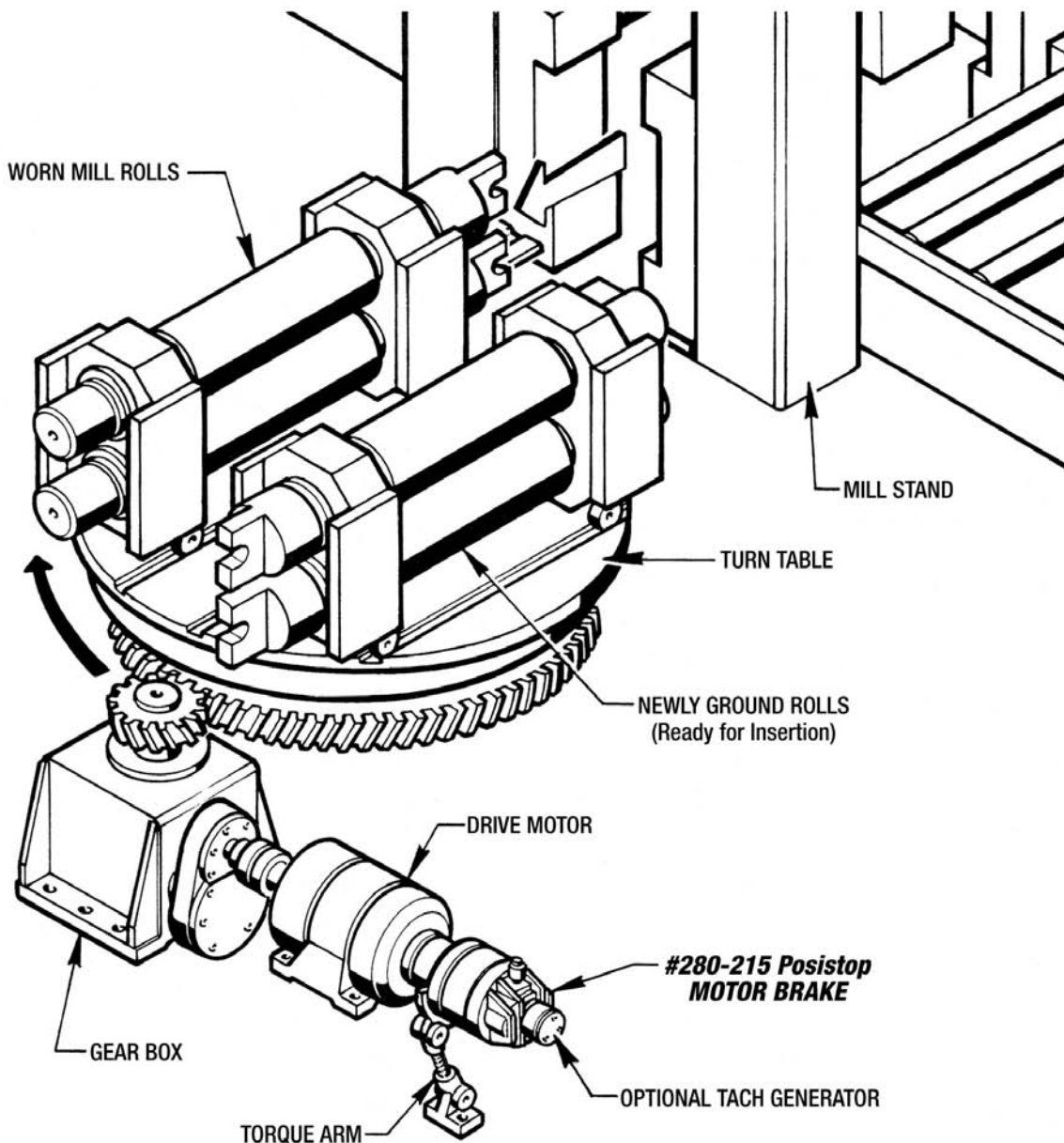


APPLICATION: Auto Roll Changer Turntable Brake

INDUSTRY: Hot Strip Steel Mill

PRODUCT: Oil Shear *Posistop* Motor Brake

AUTO ROLL CHANGER TURNTABLE BRAKE



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WHERE THEY ARE USED: In today's steel strip manufacturing facilities, down time due to roll failure is a constant battle. If a finish roll should start to fail or produce poor quality strip, it must be replaced immediately. Time is very critical during the roll changing procedure. Therefore, the mills have designed turntables located in the floor next to the rolling mills. These turntables help make the roll changeover as fast as possible. The Force Control **Posistop** Brake is located in the turntable drive package.

HOW THEY WORK: The roll changer is a turntable with two sets of rails that allow two carrying carts to sit on the turntable. One cart is used to remove the defective rolls and the other is always sitting in place with two new rolls ready to be installed. Once the defective rolls have been removed, the Force Control **Posistop** Brake is released, the turntable is rotated, and the brake is set to allow for installation of the new rolls. Because of the frequency of the changing of the finished rolls, the mill operator needs to know the exact location of the turntable to eliminate additional time used in the alignment procedure. Therefore, the Force Control **Posistop** Brake has been designed to allow for mounting of a tach generator. The tach generator will transmit an electronic signal to the operator to assist in the determination of the exact turntable location.

PROBLEM SOLVED: The area of the mill where the finished rolls are located is extremely wet and dirty. The turntable brake is located next to these rolling mills exposed to the environment. With the use of brakes that are open to the environment, failure due to the environment is quite common. The completely sealed Force Control **Posistop** Brake will not allow outside contaminants to cause brakes to fail, thus solving the environmental problem. The turntable brakes have a very low cycle rate; with Force Control's **Posistop** Brake **Oil Shear** technology, the brake's life is well beyond that of other brakes.

IMPORTANT FEATURES:

- **Oil Shear** Technology provides consistent and precise stops throughout the life of the **Posistop** Brake.
- The totally enclosed, sealed design protects the unit from contaminants.
- Adjustments are not required during the life of the brake.
- Very little maintenance is required during the operating lifetime of the unit.
- There are no expensive coils to wear out and replace.



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