

# APPLICATION BULLETIN

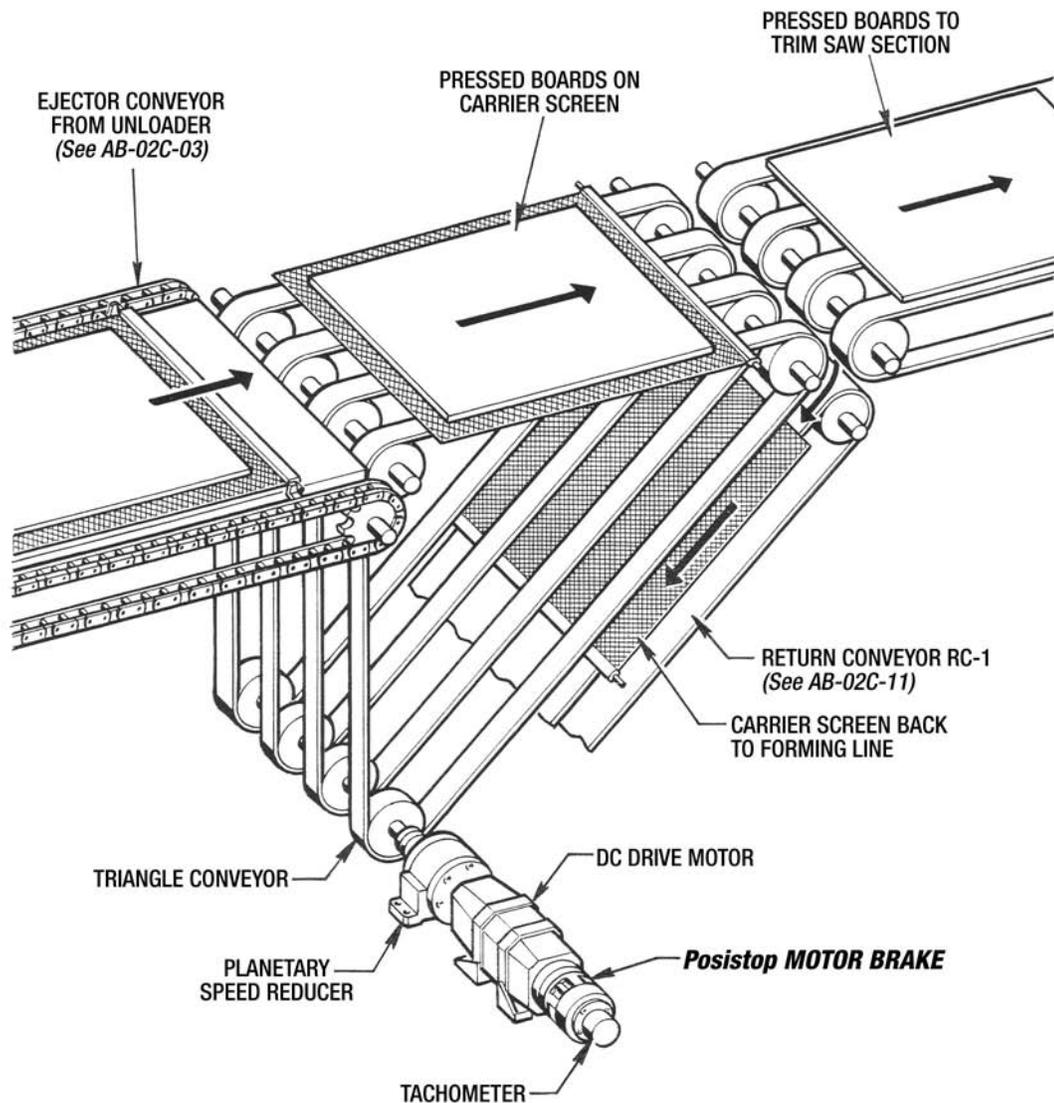


**APPLICATION:** Triangle Conveyor Drive

**INDUSTRY:** (OSB) Oriented Strand Board Plants

**PRODUCT:** Oil Shear *Posistop* Motor Brake with Tachometer

## TRIANGLE CONVEYOR DRIVE



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**WHERE THEY ARE USED:** The Ejector and the **Triangle Conveyor** are the first two conveyors on the exit side of the Press area in the OSB plants.

**HOW THEY WORK:** The Ejector and **Triangle Conveyor** utilize the same drive train consisting of a DC motor with a brake and a tachometer mounted to the auxiliary end of the motor.

The Ejector Conveyor is a lug chain type conveyor that uses its lugs to grab the head of each individual screen that is on the Unloader Elevator and ejects it onto the **Triangle Conveyor**. The Triangle Conveyor takes the screen with the board on it and indexes it to the next conveyor. There is a gap between the triangle conveyor, and the next conveyor. This gap lets the screen fall below to the Return Conveying system while letting the board continue on down stream to be saw cut.

**PROBLEMS SOLVED:** The main problem with the dry friction brakes is they mechanically fail frequently. The atmosphere around the forming line and throughout the plant is damp. The repetitive cycling of the brakes causes frequent failures. The brake and tachometer combination makes repair of the brakes difficult.

The Force Control **Posistop** Motor Brake puts an end to the monthly maintenance of the motor brakes.

The **Posistop** Brakes are drop in replacement for many of the dry friction brakes that are typically used throughout the industry. The totally enclosed **Oil Shear** Design of the **Posistop** Brake provides a totally enclosed brake that is immune to the damp atmosphere and there are no flimsy mechanical linkages to fail due to repetitive use.

The end result is a brake that will easily install to replace the typical dry friction electric brake to provide a very reliable, long life, brake with no maintenance other than an annual oil change.

## IMPORTANT FEATURES:

- **Oil Shear Technology** gives the **Posistop** Motor Brake extremely long life, as well as consistent stopping.
- The totally enclosed design provides a brake that is not effected by harsh environments.
- Special model brakes provide drop in replacements for several of the commonly used dry friction brakes. See models MB-210-458 and MB-210-473.



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