

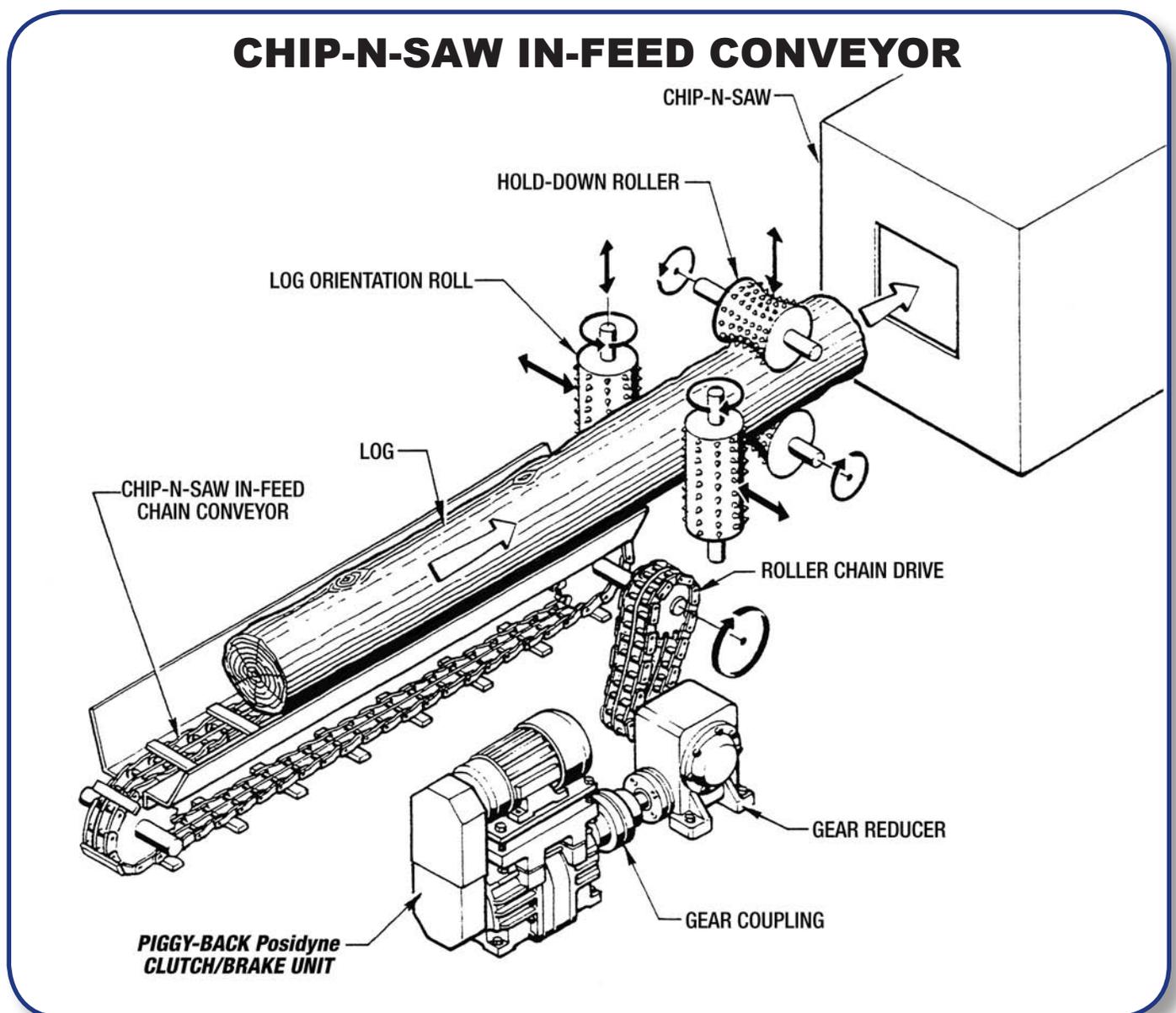
APPLICATION BULLETIN



APPLICATION: Chip-N-Saw In-feed Conveyor

INDUSTRY: Dimension Lumber Mills

PRODUCT: Oil Shear *Posidyne* Clutch/Brake



CHIP-N-SAW IN-FEED CONVEYOR

WHERE THEY ARE USED: The Chip-N-Saw In-feed Conveyor is found in a dimension lumber mill. It moves the log from a log deck or jack ladder hoist to the Chip-N-Saw machine, which chips the edges of the log and saws the log into boards.

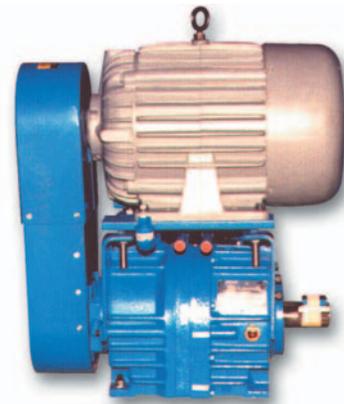
HOW THEY WORK: The conveyor is a chain conveyor running in a trough which moves a single log into the Chip-N-Saw. It must start and stop frequently at the control of the operator, depending on the requirements of the Chip-N-Saw. The drive is normally set up as a Clutch/Brake with a gear reducer and a roller chain drive on the output of the reducer to the head sprocket.

Some typical drives use either a dry friction Clutch/Brake, or a dry friction motor brake. If a motor brake is used the motor must be stopped each time the chain stops.

PROBLEMS SOLVED: The **Posidyne** with the oil shear technology uses transmission fluid to cool and lubricate the multiple friction surfaces for longer life and cooler running. Using a **Posidyne** Clutch/Brake allows the motor to run continuously conserving power, while reducing the starting shock on the drive components from the across the line starting of the motor. Because the **Posidyne** Clutch/Brake is totally enclosed and sealed dust, dirt, chips and water do not affect the operation of the unit.

IMPORTANT FEATURES:

- Totally enclosed, oil cooled unit for long service life with low maintenance in the harshest environments.
- Oil Shear Technology and innovative friction material provide smooth controlled torque for quick, smooth acceleration.
- Consistently accurate starts and stops with no adjustment required.
- Continuously running standard motor for long service life and lower energy consumption.



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