APPLICATION BULLETIN

APPLICATION: Chip-N-Saw In-feed Conveyor

INDUSTRY: Dimension Lumber Mills

PRODUCT: Oil Shear Posidyne Clutch/Brake
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.