

APPLICATION BULLETIN

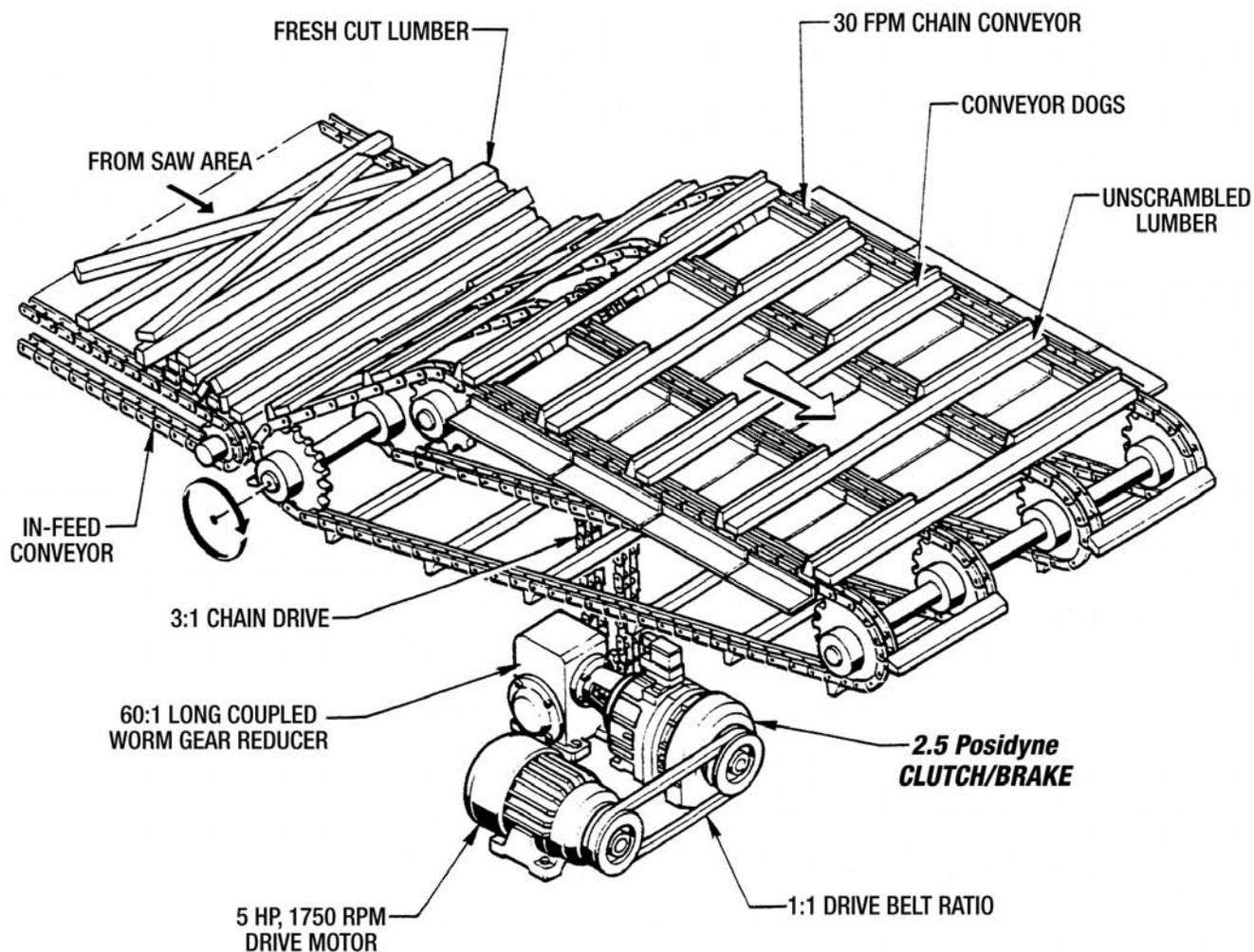


APPLICATION: Unscrambler Conveyor

INDUSTRY: Dimension Lumber Mills

PRODUCT: Oil Shear *Posidyne* Clutch/Brake

UNSCRAMBLER CONVEYOR



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WHERE THEY ARE USED: Unscrambler Conveyors are found in dimensional lumber mills ahead of inspection, grading, sorting, planing or other operations where the boards need to be spaced equally.

HOW THEY WORK: Newly cut dimensional lumber exits the saw area in less than an orderly manner. This haphazard pile advances to the Unscrambler where the dogs of the chain strategically pick up and advance only one layer of lumber at a time. This action "unscrambles" the boards as they proceed to be sorted or inspected. Stops are frequent as dictated by the sorting and inspecting process.

PROBLEMS SOLVED:

Longevity...

The unscrambler is in-line and therefore a critical part of keeping the mill running. Employing standard motors that are allowed to run constantly and a **Posidyne** Clutch/Brake to provide a smooth controlled drive engagement is a key strategy to ensure long, maintenance free life in all high cycle components. The **Posidyne** Clutch/Brake's totally enclosed housing and patented oil cooling techniques ensure reliable service in hot, dirty, wet, and generally hostile environments.

Efficiency...

Using a **Posidyne** Clutch/Brake allows the motor to run continuously without frequent starts and stops. This protects the motor from across the line spikes, and allows for better cooling.

Quick response...

The **Posidyne** Clutch/Brake responds quickly to a signal to start which allows the operator to more quickly and efficiently position boards in the inspection or sorting area.

Smooth Starts...

Engaging the **Posidyne** Clutch to start the conveyor can be smoother than the shock from starting the motor across the line. This protects chain drives, sprockets, and the conveyor itself.

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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