APPLICATION BULLETIN

APPLICATION: Plywood/Veneer Trim Saw Conveyor

INDUSTRY: Plywood/Veneer Plants

PRODUCT: Oil Shear Posidyne Clutch/Brake

PLYWOOD/VENEER TRIM SAW CONVEYOR

- Plywood/Veneer Panel
- Trim Saws
- Trimmed Edges
- Trim Saw Chain Conveyor (120 RPM)
- WORM GEAR SPEED REDUCER (15:1 Ratio)
- Infeed Conveyor (Constant Speed)
- 5 HP, 1750 RPM Drive Motor
- No. 2.5 Posidyne Clutch/Brake
WHERE THEY ARE USED: The Trim Saw Chain Conveyor is used in the finishing area of Plywood/Veneer Plants.

HOW THEY WORK: Boards are continually coming from the trim saws that have just finish cut the 4' dimension of a (nominal) 4' x 8' board. When the board enters the Trim Saw Chain Conveyor it butts up to a dead stop. This is the cue for the chain & dog style conveyor to traverse the board at a right angle towards the trim saws that will achieve the finish cut 8’ dimension. In this fully automated arrangement the swift, accurate stop/start of the chain conveyor ensures the mesh between continuous feed and indexing at right angles. Improper stop position or sluggish accel/decel of the chain & dogs will cause jam-ups.

PROBLEMS SOLVED:

Longevity - The trim saw chain conveyor is In-line and there for a critical part of keeping the plant running. Employing a standard motor that is 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 cyclic drive 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.

Consistent Accuracy - Consistent timing is essential and must be maintained. The Posidyne exhibits negligible torque changes throughout its life, or during cold to hot phase shift. The result of this is consistently accurate stops and starts with no adjustments required.

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.