APPLICATION BULLETIN

APPLICATION: Veneer Tipple Hoist Drive

INDUSTRY: Plywood/Veneer Plants

PRODUCT: Oil Shear *Posidyne* Clutch/Brake

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**VENEER TIPPLE HOIST DRIVE**

- AC DRIVE MOTOR
- *Posidyne* CLUTCH/BRAKE
- WORM GEAR SPEED REDUCER
- (2) COUNTERWEIGHTS
- PLYWOOD VENEER PEELING LATHE
- TIPPLE HOIST CONVEYOR
- EXIT CONVEYOR

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WHERE THEY ARE USED: The Tipple Hoist Conveyor is located just off the peeling lathe and is used to feed the veneer onto the correct storage or exit conveyor. The Tipple Hoist raises or lowers the Tipple Conveyor to align with the storage conveyor.

HOW THEY WORK: The Tipple Hoist raises the tipple conveyor in increments to align with the different storage conveyors. When the proper length of veneer is peeled off the Tipple raises or lowers to align with the next storage conveyor. Generally the Tipple will start at the bottom and indexing each layer to the top. The motor will then reverse directions and the Tipple will index back down to the bottom.

PROBLEMS SOLVED: The Tipple Hoist often used a motor brake drive which had to start and stop the motor each index. This required extra power to start the motor, and additional brake torque and heat dissipation in order to stop the motor rotor. The Posidyne clutch/brake arrangement allows the motor to run continuously until at the top or bottom. At this point the motor can reverse under no load.

The Posidyne is an Oil Shear Clutch/Brake which is totally enclosed. The oil cools and lubricates the friction discs for long life. Oil shear technology also furnishes smooth starts and stops which can be adjusted simply by adjusting the air pressure.

The totally enclosed housing eliminates problems associated with the dust, dirt, chips and moisture found in the wood products operations.

The “SA” logic has a medium spring set brake which will hold the Tipple in case of a power failure, or loss of air pressure.

IMPORTANT FEATURES:

• Oil Shear technology for lubricates and cools the friction discs for long, maintenance free life.

• Air actuated clutch with medium spring set brake with air assist for smooth adjustable starts and stops.

• “SA” logic has medium spring set brake to hold the Tipple in case of power failure or loss of air pressure.

• Totally enclosed housing to protect against dust, dirt, chips and moisture.

• No adjustment required, and only a simple fluid change once in a while is all the maintenance needed.