

APPLICATION BULLETIN

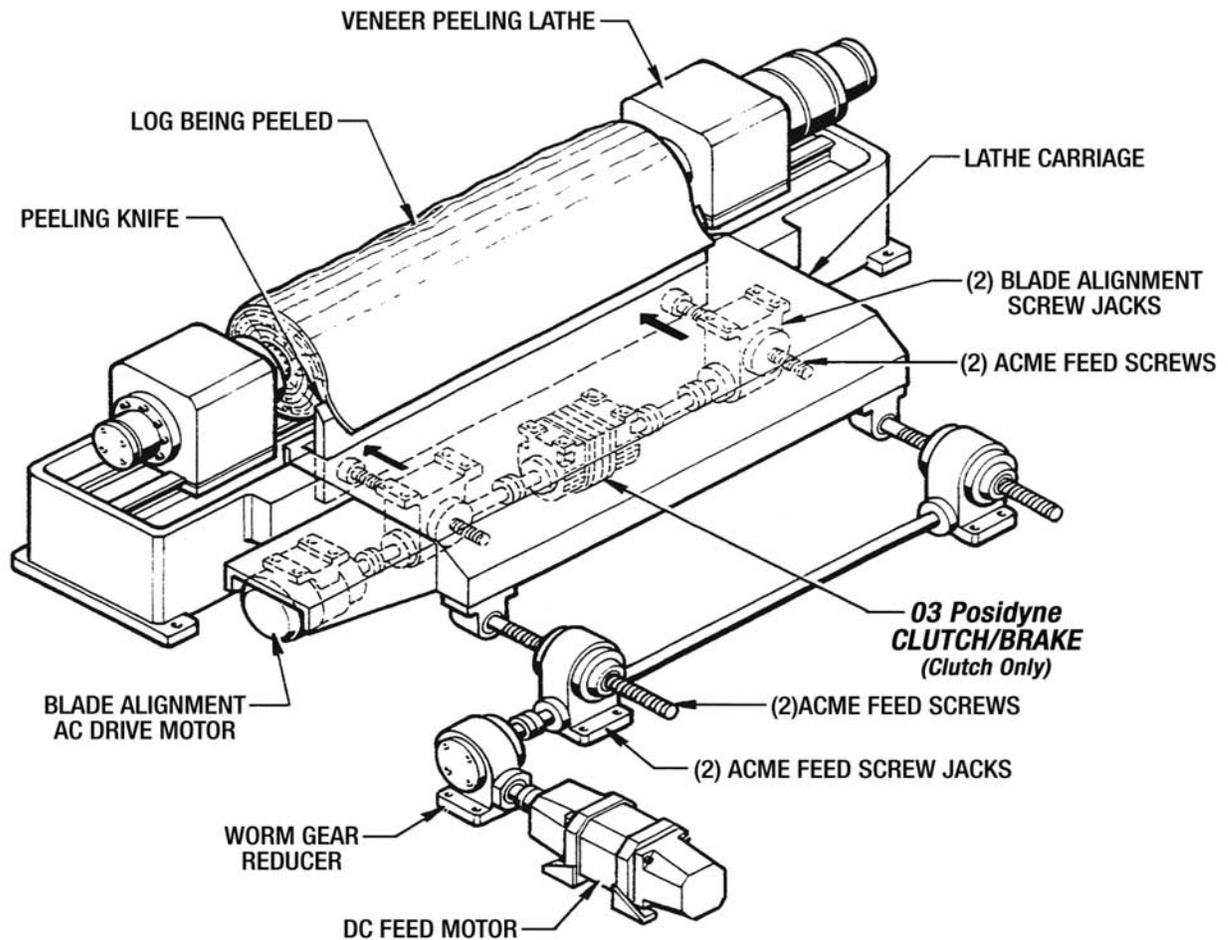


APPLICATION: Veneer Peeling Knife Alignment

INDUSTRY: Plywood/Veneer Lumber Mills

PRODUCT: Oil Shear *Posidyne* Clutch/Brake (Clutch Only)

VENEER PEELING KNIFE ALIGNMENT



VDNER PEELING KNIFE ALIGNMENT

WHERE THEY ARE USED: The Peeling Knife Alignment Drive is on the peeling lathe in a Plywood or Veneer Manufacturing Plant. It is used in adjusting the alignment of the knife.

HOW THEY WORK: The knife is adjusted horizontally and vertically using adjusting screws driven by worm gear reducers. The vertical adjustment is done by driving two screws with a single motor through two worm gear reducers and a connecting shaft. By placing a **Posidyne** Clutch Only between the two reducers the second screw can be disconnected. This allows adjustment of just the one side of the knife blade to set the proper tilt angle. When adjusted properly the clutch is engaged so that both sides of the knife move simultaneously.

PROBLEMS SOLVED: Many of the older peeling lathes have a fixed coupling which needs to be disassembled to make this adjustment. This is time consuming, and may have to be adjusted several times for the proper angle. The totally enclosed design of the **Posidyne** Clutch make it ideal for location under the peeling lathe with all of the dirt, dust, chips, and water in that area.

The **Oil Shear System** maintains a consistent torque over the life of the unit, eliminating slip that would allow the blade to move out of proper level.

Using the solenoid valve the knife can be adjusted on the fly, without having to shut down, and lock out the machine. The operator can make fine adjustments quickly at any time.

IMPORTANT FEATURES:

- Remote adjustment of the knife by the operator at any time, saving time and improving product quality.
- Totally enclosed Posidyne clutch eliminates problems associated with dust, dirt, water and chips found in this area.
- Rugged heavy-duty unit built for the wood yard applications.



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