

# APPLICATION BULLETIN

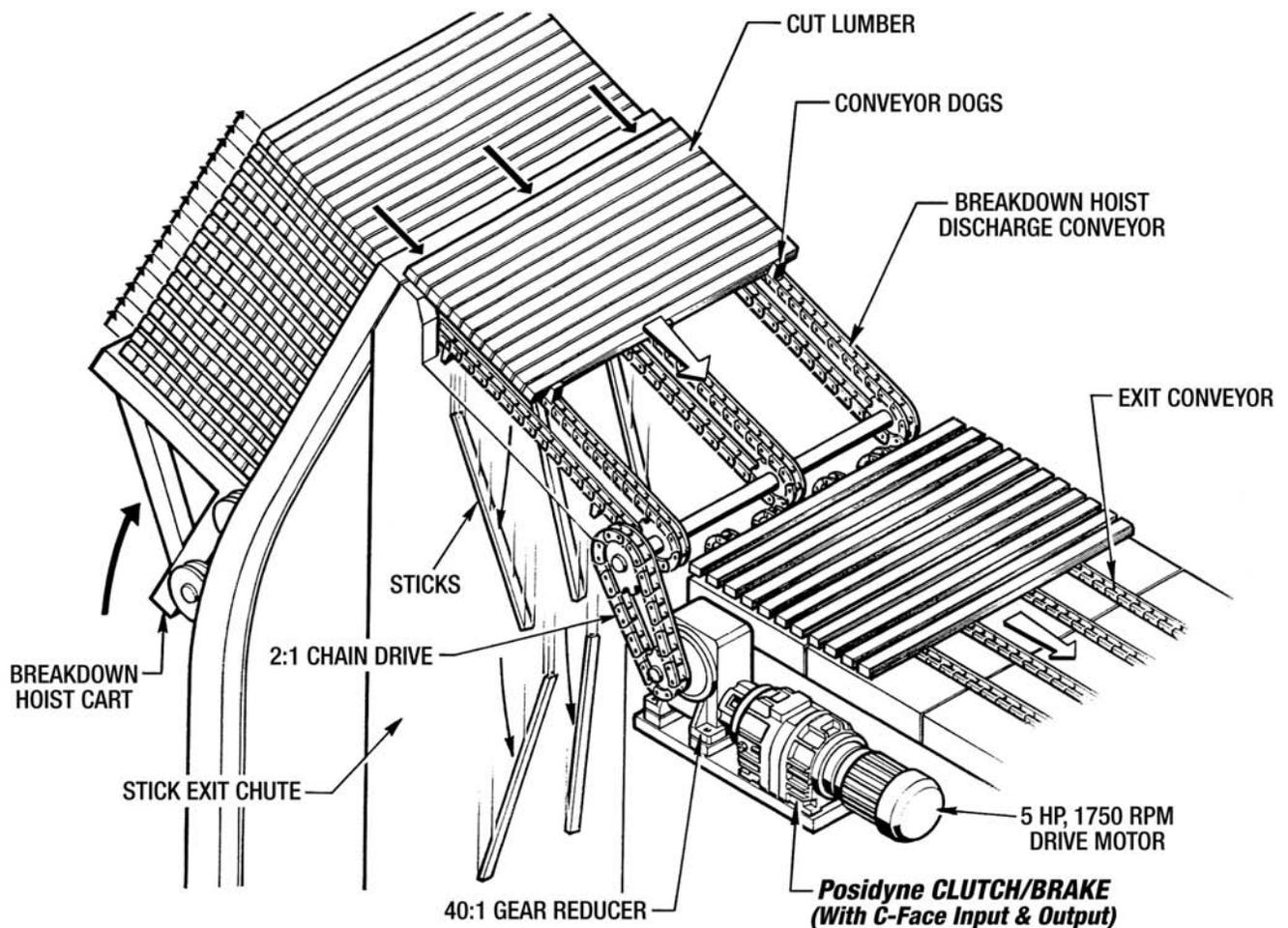


**APPLICATION:** Breakdown Hoist Discharge Conveyor

**INDUSTRY:** Dimension Lumber Mills

**PRODUCT:** Oil Shear *Posidyne* Clutch/Brake

## BREAKDOWN HOIST DISCHARGE CONVEYOR



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**WHERE THEY ARE USED:** The Breakdown Hoist Discharge Conveyor is found in dimensional lumber sawmills. It is used as an integral part of the breakdown hoist to unstack lumber a layer at a time either to be sorted or to be fed into the planer infeed system.

**HOW THEY WORK:** The breakdown hoist indexes up until the top layer of lumber begins to slide off on to the discharge conveyor. In this fully automated arrangement, the discharge conveyor catches and controls the action of the sliding lumber to maintain a smooth orderly descent to the take away conveyors.

Unwanted piling and jamb-ups are virtually eliminated. The sticks that separate the lumber layers automatically fall to the stick exit chute below.

## **PROBLEMS SOLVED:**

### **Longevity**

The breakdown hoist discharge conveyor is in-line and therefore a critical part of keeping the mill running. This chain and dog style conveyor starts and stops with each new layer of lumber to be processed.

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 high cycle 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. Catching the lumber in a timed, orderly fashion, ensures less piling or jamb-ups. The **Posidyne** exhibits negligible torque changes throughout its life, or during cold start to hot run 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.



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