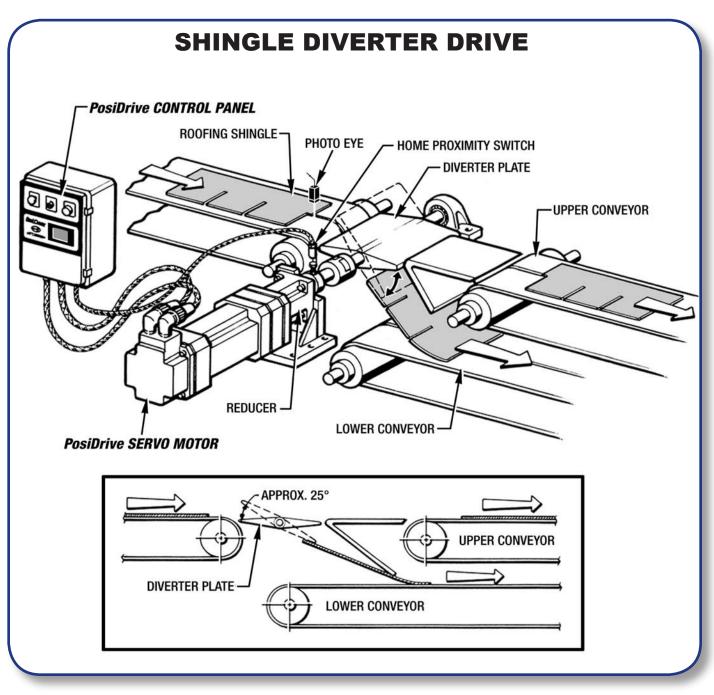


**APPLICATION:** Shingle Diverter Drive

**INDUSTRY:** Asphalt Roofing Shingle Plants

**PRODUCT:** PosiDrive Servo System



#### AB-06-06 - 2/14/2005

# **SHINGLE DIVERTER DRIVE**

### WHERE THEY ARE USED:

The Shingle Diverter is used in the production of architectural (laminated) roofing shingles. The catching/flipping/stacking cannot keep up with the machine production so the finished shingles are split between two catching/flipping/stacking systems for maximum machine output.

#### HOW THEY WORK:

A photo eye detects the trailing edge of the shingle entering the diverter and signals the **PosiDrive Servo System** to move the diverter plate to the other position. This move needs to take place in approximately 50 milliseconds (.05 sec.) so that it is ready for the next shingle.

#### **PROBLEMS SOLVED:**

The **PosiDrive Servo System** provides more consistent performance to minimize shingle jams and maximize machine output.

There are very few mechanical components so there is little maintenance required.

#### **IMPORTANT FEATURES:**

- **PosiDrive Servo Motor** with low inertia and high torque provides maximum performance for this demanding application.
- **PosiDrive Servo Control** is prepackaged and preprogrammed for the customer. The control panel may have two or more **PosiDrive Servo Amplifiers** for multiple diverters, catchers, flippers, or stackers for a customized solution to the plant. Final system startup variables are input through the **TSI** (*Touch Screen Interface*). There is no complex programming language to learn.
- The *TSI* can be mounted in its own small enclosure near the diverter with the main amplifier control panel being remote on multi-axis systems. This saves space in the critical area near the diverter while providing operators the flexibility of having the *TSI* nearby for system operation and monitoring. The *TSI* can communicate with multiple (8) *PosiDrive* Servo Drives on multi-axis systems.





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