

APPLICATION BULLETIN



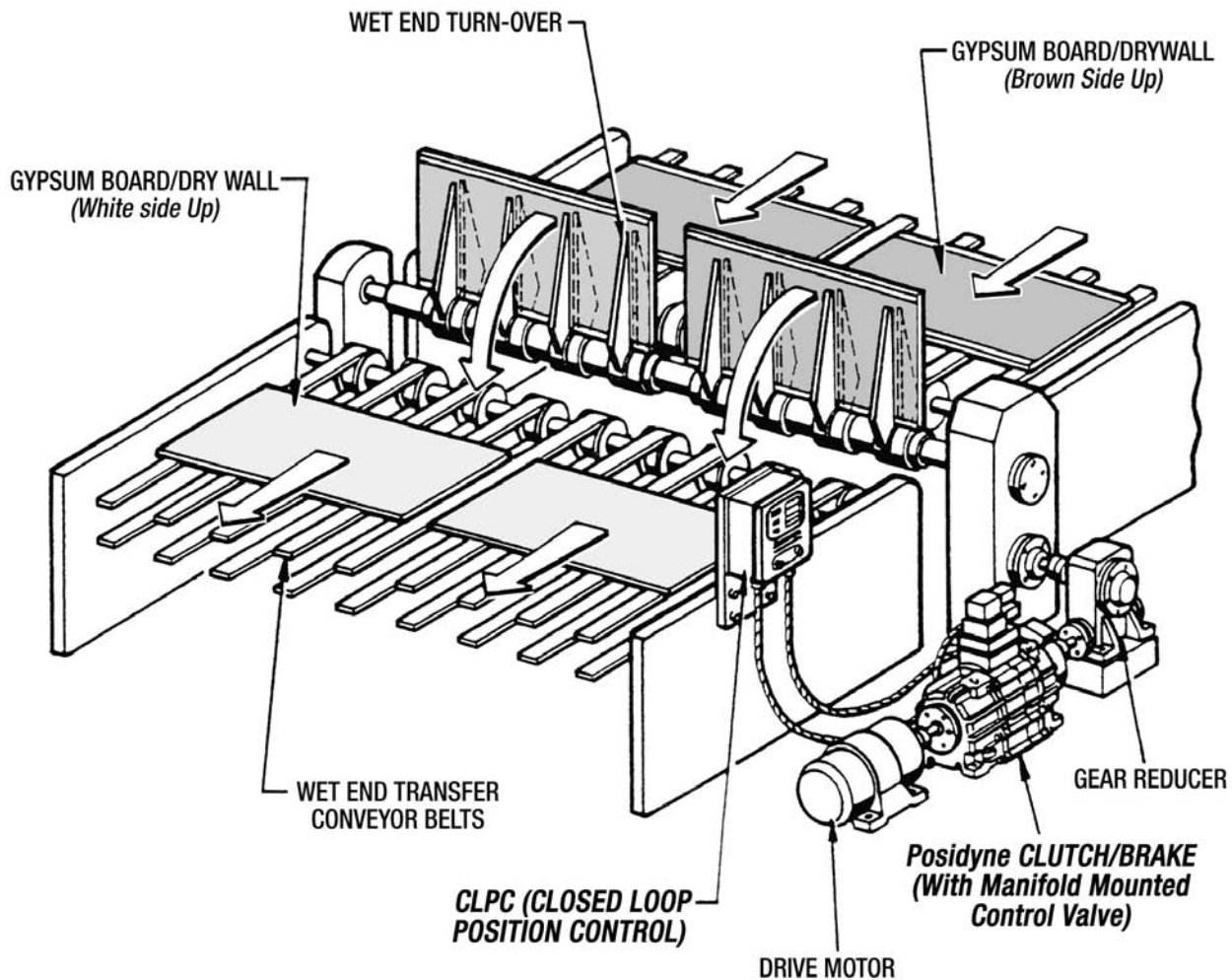
APPLICATION: Wet End Board Turn-Over

(See Wet End Board Inverter AB-03-06 for Alternate Method)

INDUSTRY: Gypsum Board/Drywall Plants

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

WET END BOARD TURN-OVER (Single End Drive Package)



WET END BOARD TURN-OVER

(See *Wet End Board Inverter AB-03-06 for Alternate Method*)

WHERE THEY ARE USED: The board turners are used at both the wet end and dry end. At the wet end each board is turned over to put the white side or good side up before entering the oven. At the dry end one board is turned over to so the boards can be booked, or two boards placed white sides together. They are then taped together in pairs.

HOW THEY WORK: There are several types of turn over devices however the drive mechanism is similar. With the scissors type the board is indexed over one blade of the scissors. The scissor arms are raised together lifting the board to slightly past vertical position. The board will fall a short distance to the other arm. The arms are then laid down laying the board on the transfer with the opposite side down. A 180° crank arm is used to index the arm up and down 90°.

PROBLEMS SOLVED: The *Posidyne* Clutch/Brake offers many advantages. One of the problems associated with the turn-over is accurate positioning. It is critical that the drive index the exact amount and stop. If the arms are above the table at the time the board comes in damage is done to the edges. If the drive does not stop when going down the arms will try to drive through the bottom causing damage to the machine.

The *Posidyne* Clutch/Brake with manifold valve and **Closed Loop Positioning Control** are extremely accurate. Also the reliability of the *Posidyne* Clutch/Brake will last for many years without adjustment.

IMPORTANT FEATURES:

- **Oil Shear Technology** offers accurate positioning over and over again.
- The manifold mounted valve offers quickness and consistency.
- The integral positioning sensor and electronic positioning control offer long term positioning accuracy.



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