

# APPLICATION BULLETIN

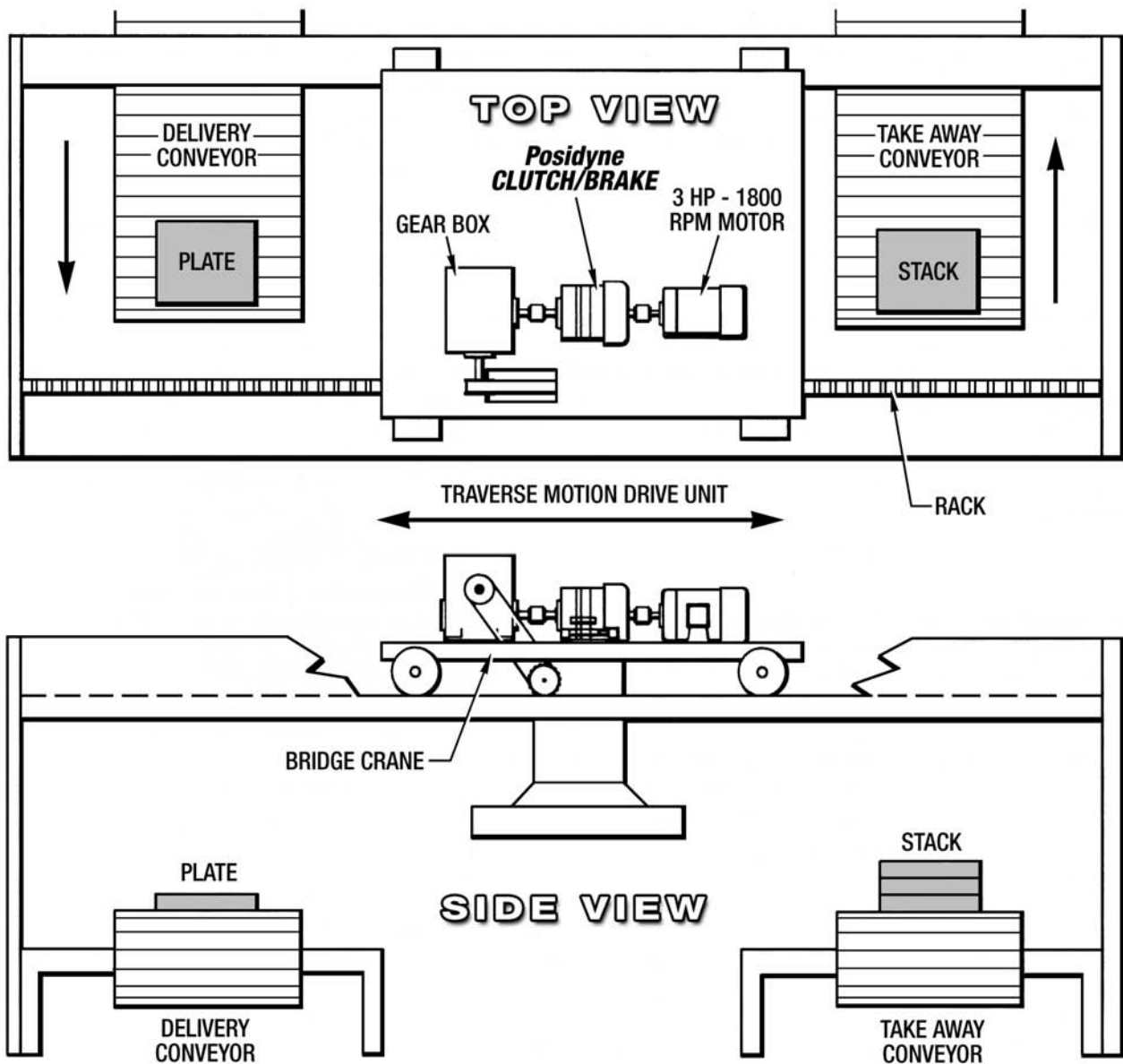


**APPLICATION:** High Cycle Stacking Crane

**INDUSTRY:** Laminated Wood and Plastic Manufacturing

**PRODUCT:** Posidyne Clutch/Brake

## HIGH CYCLE STACKING CRANE



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**WHERE THEY ARE USED:** Manufacturing of laminated wood and plastic

**HOW THEY WORK:** A high cycle stacking crane is used to stack steel plates in a press. The crane was positioned over Conveyor A, picked up a 3000 pound load of plates, moved to Conveyor B and lowered the plates. The transverse drive needed to be able to accelerate and decelerate the load quickly (4 complete cycles per minute) and position accurately over each stack.

**PROBLEMS SOLVED:** The traverse motion of the crane was powered by a very special 2-speed motor (1800/450) with a dry surface friction brake, class "H" insulation, and a separately powered cooling blower. The **Posidyne** eliminated the need for an expensive special motor, blower, brake etc. The **Posidyne** reduced downtime and eliminated costly maintenance of a special motor and brake. The controlled acceleration and deceleration of the **Posidyne** could be precisely positioned over the stacks while reducing shock loads on the traverse drive.

### IMPORTANT FEATURES:

- **Oil Shear** design delivers long service life reducing costly downtime and repairs.
- Standard single speed motor can be used reducing electrical consumption and maintenance cost.
- High thermal rating of the **Posidyne** can operate continuously without overheating problems.
- Multiple disc **Oil Shear** design provides smooth precise stops and starts for accurate positioning.



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