

APPLICATION BULLETIN

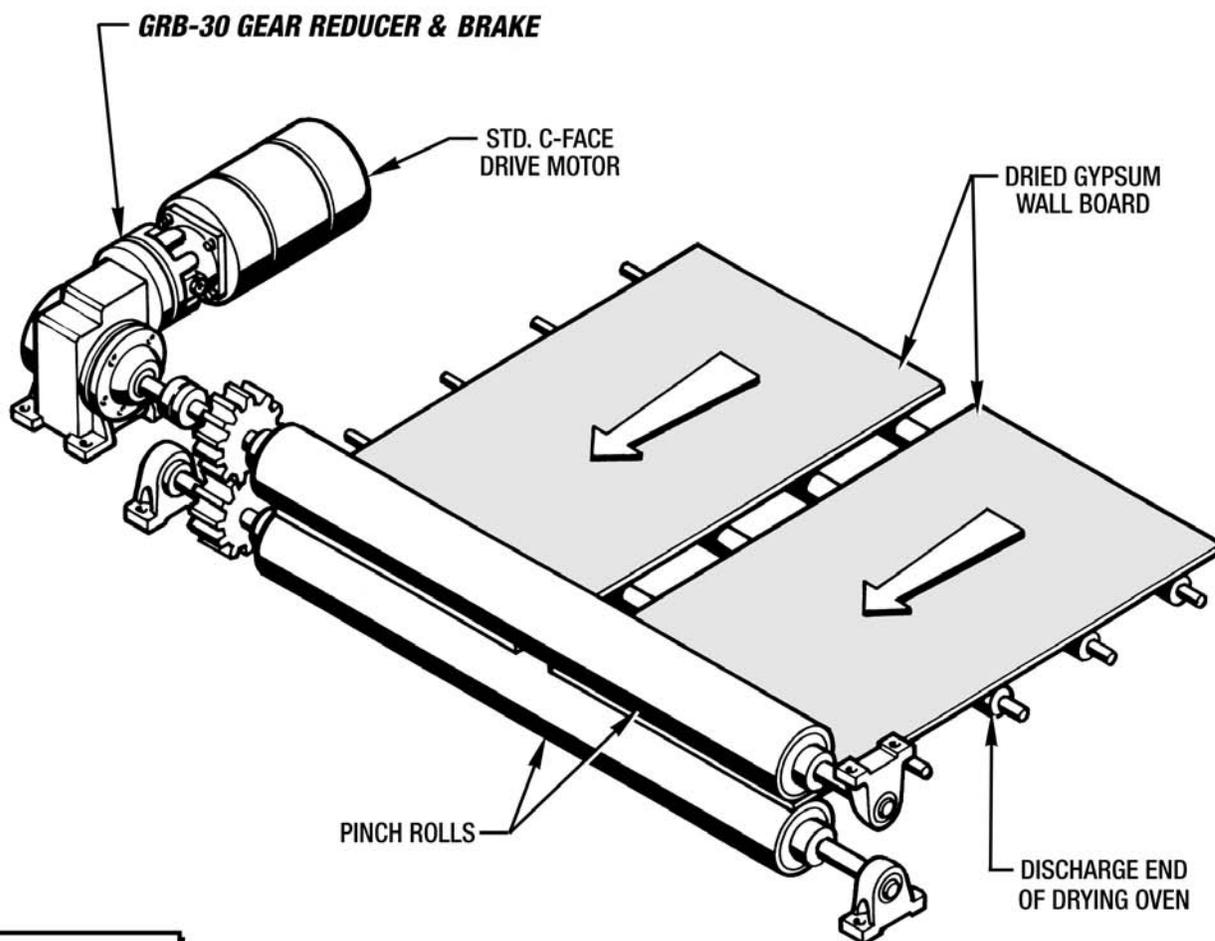


APPLICATION: Oven Pinch Roll Drive (*Option "B"*) (*Preferred*)

INDUSTRY: Gypsum Board/Drywall Plants

PRODUCT: GRB-30 Gear Reducer and Brake

OVEN PINCH ROLL DRIVE (*Option "B"*)



Option "B" (*Preferred*)

One Set of Pinch Rolls Required For Each Oven Tray

OVEN PINCH ROLL DRIVE (*Option "B"*)

WHERE THEY ARE USED: The pinch rolls are at the discharge end of the drying oven. There is one set of Pinch Rolls per each Oven Tray. They are used to hold the board until ready to discharge onto the unloading tippie conveyor.

HOW THEY WORK: The rolls are powered by a small gear reducer with an integral brake and motor. The two rolls are geared together so both are powered. Each set of pinch rolls is separately powered. As a board comes into the pinch roll it is stopped until the unloading conveyor is ready. At this time, the rolls drive the board out of the oven.

PROBLEMS SOLVED: The current system uses a brake motor on the back of a special gear motor. Usually a Dings or Stearns brake is used. Due to the severe heat, dust and dirt these brakes tend to fail early. The **GRB-30 Gear Reducer & Brake** solves many of the existing problems. The totally enclosed sealed unit operates well in the dirty environment.

The oil filled brake maintains a steady temperature internally so the braking action is always consistent.

The **Oil Shear System** cools and lubricates the friction surfaces during operation greatly improving service life.

The **GRB-30** is a complete Gear Reducer with an integral **Oil Shear Brake**. The heavy-duty cast iron housing holds up well in the rough environment of a board plant. This unit also allows the use of a standard C- face motor.

IMPORTANT FEATURES:

- The **Oil Shear Technology** by cooling and lubricating the friction surfaces produces extremely long service life.
- The totally enclosed, sealed housing eliminates dust and dirt from entering the brake causing advanced wear on the friction surfaces and internal linkages.
- Easy installation for direct replacement without buying motors or gear motors.
- 460 Volt Solenoid Valve available for direct connection into the motor conduit box.



FORCE CONTROL INDUSTRIES, INC.

3660 Dixie Highway Fairfield, Ohio 45014

Phone: 513-868-0900 Fax: 513-868-2105

E-Mail: info@forcecontrol.com Web: www.forcecontrol.com