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## Integral Gear Box Maximizes Posidyne Clutch Brake Drives Reliability

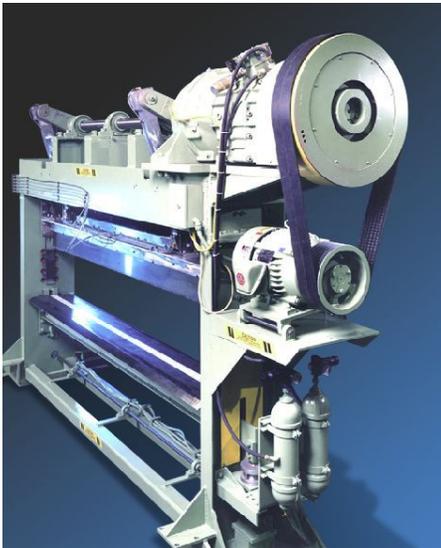
Integrating the Custom Designed Gear Box Gives the Posidyne Clutch Brake Drive the No Maintenance Reliability for Critical Production Lines

Force Control Industries is known around the world for the reliability of their Posidyne clutch brakes, Posistop and MagnaShear brakes and the Positorq continuous slip brakes. They will do the seemingly impossible with high loads, and high cycle rates. However they are connected to downstream drive components such as gear boxes. To do the type of production rates required by today's business the acceleration and deceleration loads can get very high.

There have been cases where there are not commonly available gearboxes that can handle the loads with the long service life of the Posidyne clutch brake. In some of those situations Force Control Industries designed and manufactured gear boxes that would handle the load and provide the long maintenance service life expected. These are often integrally mounted to the Posidyne clutch brake in such a way that either couplings are eliminated or shaft connections are made through specially designed couplings that will provide the service needed.



Several gear boxes in use today include a small worm gear box used for high cycle packaging metering belts and other packaging systems. A specially designed worm gear box was developed for palletizers with a special worm helix and brake to control back driving for safety reasons, and provided the service life the customers requested. A larger application used for cutting fiberglass insulation was designed as a planetary reducer with all parts manufactured in house. These gearbox clutch brake drives were so successful they are currently used in nearly all fiberglass insulation plants around the world.



Force Control does not typically design and manufacture gear boxes unless there is not an acceptable commercial unit available that will provide the extreme service life expected of Posidyne clutch brakes.

Contact our sales engineers for assistance solving high cycle indexing applications.

**Oil Shear Technology, Design Integrity, and Customer Support**