Sumitomo Drive Technologies

Quill Bushing

PREVENT STUCK SHAFTS. SIMPLIFY MAINTENANCE.

It runs fine. Until you have to take it apart.

Over time, vibration between the motor shaft and gearbox bore micro-welds the surfaces together — a process called fretting corrosion. The unit keeps running, but the damage builds.

When maintenance is required, the shaft can seize in place—turning a routine removal into a time-consuming process that drives additional downtime and repair costs.

Most solutions try to manage this. They don't eliminate it.

A different approach to shaft connections

The Cyclo® Quill Bushing introduces a **composite insert** between the motor shaft and gearbox bore.

Instead of metal-to-metal contact, it creates a **barrier** that prevents the metal-to-metal contact that causes fretting in the first place.

Your gearbox just got better.
Same model number. Same price. Same lead time.



**Ships installed as standard.*
Replacement inserts available
Patent Pending

Traditional Approach vs. Cyclo® Quill Bushing

	Traditional Approach	Cyclo® Quill Bushing
Interface	Metal-to-metal contact	Composite barrier
Fretting	Managed or reduced	Eliminated
Removal	Can seize in place	No seizure risk
Maintenance Outcome	Unplanned downtime	Routine, predictable

What this means for your operation

- **Prevents** seized shafts during maintenance
- **Eliminates** fretting, not just reduces it
- **Reduces maintenance** downtime and repair costs
- Removes the need for anti-seize and workarounds

Proven Performance

The Cyclo® Quill Bushing has been validated through a variety of testing, with **no corrosion** observed across all test conditions.

1.5+ yrs
Field operation, zero issues reported

12x
Static full load motor torque

2,000 hrs
Non-stop run at full load

1M cycles
Endurance tested under cyclic load

Product Availability

The Cyclo® Quill Bushing is **standard on hollow quill input configurations** for:

- Cyclo sizes: **606 through 616**
- NEMA frames: **56C, 140TC, 180TC, 210TC, and 250TC**
- Original all steel hollow quill input: Available on request
- Product lines: **Cyclo®, HBB, and BBB4 NEMA input gearboxes**

Phone: *757-485-3355*

Email: *SMA.CustomerService@shi-g.com*