

Semiconductor Manufacturing Industry Requires Positional Accuracy & Repeatability

Climax Keyless Locking Devices provide a reliable solution when connecting drive line components in high-speed index packaging machinery commonly used in the semiconductor manufacturing industry.



The KLD Advantage:

- Eliminates keys, keyways, & set screws prone to shaft damage & fretting corrosion
- When shrink fits or press fits are costly & difficult to install & remove
- Superior to QD/Taperlock Bushing that incorporate keyways where wallowing occurs causing fretting & backlash
- KLDs transmit high torque, thrust, & bending loads
- KLDs require only simple hand tools for installation & removal

As the demand for semiconductors and associated components continues to rise, high-speed index machinery needs to operate at peak efficiency. Increased production is essential, putting a great deal of strain on manufacturing equipment. The drive line components, in particular, need to maintain positional accuracy and repeatability. Unfortunately, keyed connections can wear out, become out of sync, or break down, causing excessive downtime and loss of productivity.

The semiconductor manufacturing industry is one that relies heavily on the positional accuracy of its machinery, making a reliable shaft connection vital. Climax Keyless Locking Devices (KLDs) are an excellent solution for ensuring positional accuracy and repeatability for drive line components. In fact, when used in servo-driven sprocket drive systems, KLDs can deliver zero backlash without accumulated wear or performance erosion, making them an ideal choice for high-precision applications.

One key advantage of KLDs is that they can be used in place of keyed connections, which simplifies component machining and reduces costs. KLDs work with straight bores that have generous tolerances, which further reduces complexity and costs. In addition, KLDs are easy to install and remove with simple hand tools, making them invaluable for field serviceability. When maintenance is performed, downtime is minimized ensuring that machinery is back up and running as quickly as possible.

Climax carries an extensive inventory of keyless locking devices. Our in-house team of engineers will help customize a solution for your production process. Contact us today to discover how Climax can provide you with a tailored **Engineered Shaft Locking Solution™**.

