B-LOC Shrink Discs

B-LOC

A Full Line of Connections That Install Easily and Boost Performance From the Industry Leader

Shrink discs are the preferred alternative to conventional shrink/fit/press fit, tapered bushings, or keyways, providing a high-capacity, zero-backlash, shaft-to-hub connection.

They are installed externally on a hollow shaft or hub to connect it to a shaft – for example, in a hollow-shaft gearbox.

B-LOC Shrink Disc Advantages

- Install Easily
- Outperform Alternatives
- Quality You Can Trust

"Easy-Lock" Installation

Like other Fenner Industrial Motion keyless locking devices, our B-LOC shrink discs rely on a simple wedge principle.

As you tighten the screws, the tapered surfaces of the circular steel thrust rings squeeze the hub/hollow shaft onto the component bore. And, because there's no keyway, our shrink discs are easy to remove and reinstall as needed.

Just set, tighten, and walk away. There's even a two-piece design for larger applications.

Two-Piece Shrink Discs for Applications as Large as 620 mm

The larger the disc, the harder it is to install. And, as a three-piece shrink disc is tightened, the two outer rings sometimes get out of alignment, causing run-out error or off-center rotation.

Our two-piece, single-taper shrink disc was developed to handle applications as large as 620 mm (and special order larger sizes, if needed). The two-piece design is widely used in the wind turbine industry and in hydroelectric plants for the main shaft-to-gearbox connection.

It has a single inner ring with two tapered surfaces that guide the disk into place as it is tightened, aligning the two flanges, and ensuring concentricity. The disc thus establishes a well-balanced, mechanical interference fit with:

- No keyways to cut.
- No axial movement during installation.

All of which make our two-piece shrink disc easier to install, cutting installation time and reducing installation errors.

Even though it has only a single ring, the two-piece shrink disc has the same dimensions and performance as standard-, heavy-, and light-duty three-piece shrink discs. It is also available with 12.9-class screws, increasing torque capacity by 20%.

Note: Tightening of two-piece shrink discs requires a calibrated torque wrench. Performance is based on tightening torque according to the catalog requirements. In tightened condition, the front faces of inner and outer ring are approximately flush. However, this is not to be considered proof that the tightening procedure has been completed properly.

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Configurations

- SD40 Standard 12.9 Hex
- SD42 Heavy Duty 12.9 Hex
- SD50 Standard 10.9 Hex
- SD51 Light Duty 10.9 Hex
- SD52 Heavy Duty 10.9 Hex

Sizes

- Up to 620 mm (larger sizes available for special requests)

Performance

- Torque: Same as the three-piece design, with less installation time and errors.
- Load characteristics: Can accommodate high torque, thrust, bending, and/or radial loads

Corresponding Part Numbers

- Stüwe HSD
- TAS Schäfer 31xx
- Ringfeder RfN 41xx
- Ringspann RLK 606-608
- KTR 620-625-622
- Tollok 622(681)-623(683)
- Compomac SA(L)-SB(L)
- Hakon 222

Fenner Drives manufactures both three-piece and two-piece B-LOC shrink discs in standard-, light-, and heavy-duty configurations.

See what our full range of shrink discs have to offer.

VIEW THE CATALOG HERE.

Quality You Can Trust

A world leader in keyless locking devices, Fenner Industrial Motion was a pioneer in introducing the technology to the North American market. The B-LOC brand is now acknowledged as the premium brand of multi-screw KLDs in North America and is synonymous with world-class quality, engineering excellence, and unrivaled customer support.

As the inventor of the Trantorque single-nut, keyless locking device, Fenner Industrial Motion has four decades of experience manufacturing. B-LOC has tackled KLD challenges for nearly half a century with hundreds of companies, applying the technology in thousands of different applications and industries. Plus, relying on our experience and global network, we can meet even the most demanding delivery and performance requirements.

Connect with Fenner Industrial Motion

Get in touch with an application engineer by calling **1-800-243-3374 or visiting www.fenner.com.**