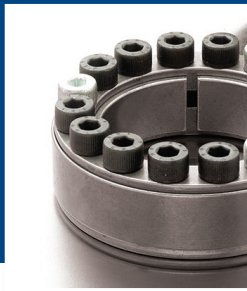
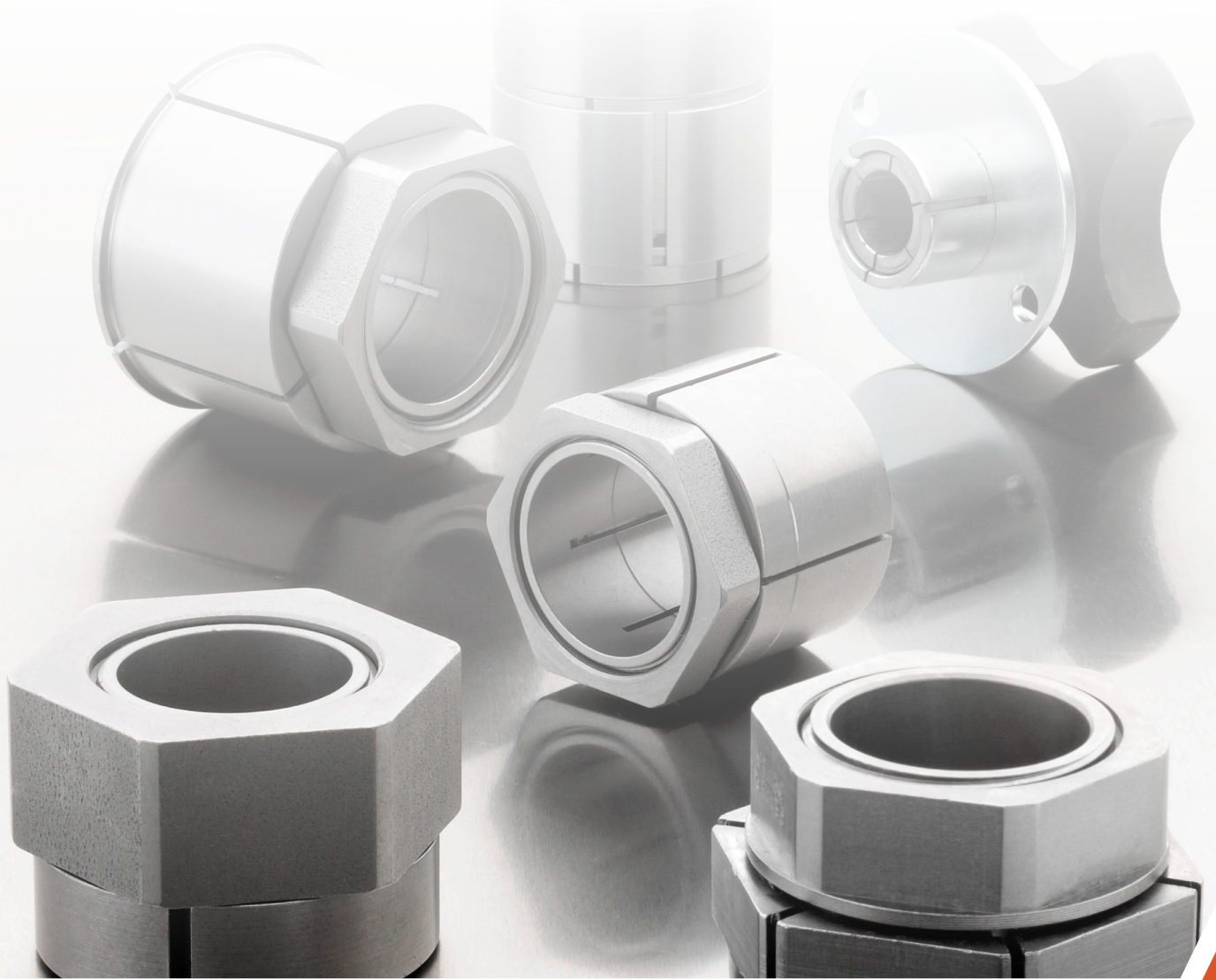


Trantorque®

THE ORIGINAL KEYLESS BUSHINGS



Trantorque Keyless Bushings - Power and Precision

Trantorque®

Fenner Drives offers a comprehensive line of Trantorque Keyless Locking Devices. The Trantorque series delivers versatile installation and design flexibility.

Fenner Drives carries an extensive inventory with same-day shipping.

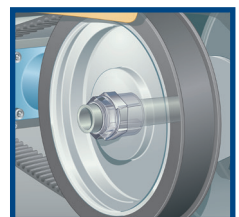
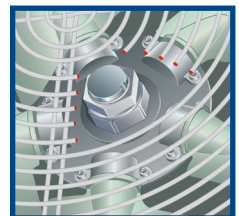
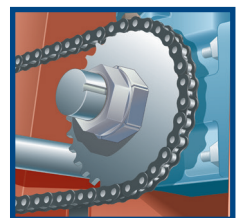
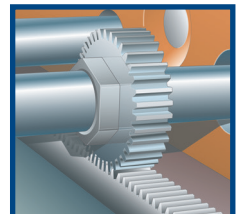
Comparison Chart	Trantorque	Interference Fit	Keyed Connection	Splined Connection	QD or TL Bushings
Keyless frictional connection	x	x			
Infinite radial and axial adjustment	x				
Easy installation	x		x	x	x
Easy removal	x				x
Backlash free connection	x	x			
Transmits shock and torque reversals	x	x			
Transmits reversing bending moments	x	x			



From gears to cams, timing belt sprockets to conveyor rolls, climate control fan hubs to grinding wheels, the extensive range of Trantorque Keyless Bushings — all with a single locking nut — offers easy to use options for mounting and adjusting position sensitive, zero backlash drive components and accessories.

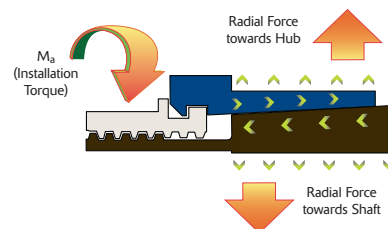
Trantorque Keyless Bushings offer...

- Single locking nut design permits quick mounting and precise axial and radial positioning of components
- Component repositioning is achieved by loosening/tightening only one nut
- “Easy On — Easy Off” — patented design functionality ensures units will not freeze on shafts
- Mechanical shrink fit resists shock loads and torque reversals — ideal for zero backlash connections
- Eliminates all key wallowing and fretting corrosion issues associated with keyways and set screws
- No special component machining required — simply straight bore the component to a very liberal tolerance



Standard Trantorque units can also be supplied as follows:

- Electroless Nickel Plated Steel (EN) for corrosion protection in washdown and hostile environments
- Thin Dense Chrome (TDC) Coated Steel for excellent corrosion protection without decreased torque transmission performance.
- Stainless Steel for ultimate corrosion protection in washdown and hostile environments



U.S. Patent Numbers 5,695,297; 6,361,243. EP Patent Number 0925455. Other Patents Pending.

How to Mount Anything!



Trantorque GT

- Designed with external countertorque flange
- Exceptional concentricity and ability to transmit bending loads
- RoHS 2002/95/EC Directive complaint
- Shaft sizes 15mm – 75mm; $\frac{5}{8}$ " – 3"



Trantorque MINI

- Exceptional concentricity and ability to transmit bending loads
- Limited axial movement during installation
- RoHS 2002/95/EC Directive complaint
- Shaft sizes 3mm – 16mm; $\frac{1}{8}$ " – $\frac{5}{8}$ "



Trantorque NT

- Designed specifically to eliminate axial movement completely during installation
- Exceptional concentricity and ability to transmit bending loads
- RoHS 2002/95/EC Directive complaint
- Shaft sizes $\frac{3}{16}$ " – 2"



Trantorque OE

- Exceptional concentricity and ability to transmit bending loads
- Limited axial movement during installation
- Minimal OD/ID ratio
- RoHS 2002/95/EC Directive complaint
- Shaft sizes 17mm – 35mm; $\frac{11}{16}$ " – $1\frac{1}{2}$ "



Trantorque MICRO

- Zero backlash
- Precision placement during installation
- RoHS 2002/95/EC Directive complaint
- Available installation options:
 - Straight bore hub and shaft
 - Insert molded
 - Integrated Installation
- Shaft sizes 3mm – 16mm; $\frac{1}{8}$ " – $\frac{5}{8}$ "

Trantorque MTO

Customs Made to Order

We realize that to be innovative in a global marketplace, today's engineers often require custom solutions. With unrivaled engineering expertise in keyless bushing design, Fenner Drives is well positioned to offer Trantorque MTO Keyless Bushings.

From the ordinary to the extraordinary, our Applications Engineering team is ready to work on a custom solution for you.



Special Materials

- EXP stainless steel (allows for higher torque transmission without the use of lubricants)
- Brass
- Tool steel

Lubricants

- Light machine oil
- Synthetic and food grade grease

Finishes

- Electroless (chemical) nickel with PTFE
- TDC (Thin Dense Chrome)
- Zinc Chromate/Zinc Phosphate
- Zinc and aluminum in inorganic binder (water-based, VOC compliant)

Designs

In addition to special materials, finishes and lubricants that can be used with existing designs, the Trantorque fundamental architecture can be radically modified for special applications.

- Keyless bushings integrated into customer components
- Hand knobs in place of hex nuts
- Lips/flanges, grooves
- Common OD with differing ID series
- Non-standard IDs and ODs
- Long or short units



Connect with quality. Connect with The Original – Trantorque.

B-LOC/MAV Keyless Bushing Devices

Make the Right Connection

The B-LOC and MAV brand are synonymous with world class quality, engineering excellence and unrivaled customer support. Fenner Drives B-LOC and MAV Keyless Bushings provide a high capacity, zero-backlash shaft-to-hub connection by using the simple wedge principle. An axial force is applied by series of annular screws to engage circular steel rings and mating tapers. The resulting wedge action creates a radial force on the tapered rings, one of which contracts to squeeze the shaft while the other expands and presses into the component bore.

Take advantage of the unique added value benefits of B-LOC and MAV Keyless Bushings...

- Easy installation and removal, with infinite radial and axial adjustment
- A true zero backlash shaft-to-hub connection with none of the operational drawbacks of keyways or splines
- Ability to mount over existing keyways
- Available in a variety of styles and sizes

