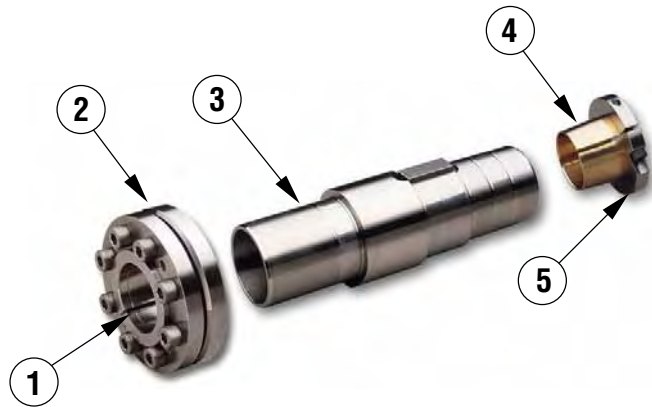


## TorqLOC® Keyless Hollow Shaft Mounting System

### Material

A typical keyed hollow shaft is made from carbon steel and is likely to corrode to a customer's solid shaft. In time, an attempt to separate the two shafts may prove to be impossible.

In contrast, the TorqLOC requires no key and should remain corrosion free, even after years of service. It contacts the customer's solid shaft in only two places – at the support bushing (#4) and at the torque bushing (#1).



The support bushing (#4) is bronze and will not corrode to steel due to the nature of dissimilar metals. The torque bushing (#1) is either electro less nickel-plated 1045 carbon steel or stainless steel – neither of which corrode to carbon steel. Furthermore, the high clamping forces located at the torque bushing prohibit the presence of oxygen so oxidation (rust) cannot occur.

Several of the TorqLOC parts are available in stainless steel as an option. SEW uses a material with a composition similar to the **400 Series Martensitic/Ferritic (MF)** stainless steels due to their advanced strength and anti-corrosive properties. It has a higher chromium and carbon content than those of the 300 Series (ie: Type 304), which have more nickel and manganese. Therefore, it is also magnetic, which seems uncommon among stainless steels simply because the 300 Series are not magnetic and are widely used. Nevertheless, its magnetic feature does not affect its ability to hinder corrosion.

The following chart shows the standard and optional materials.

#	Part Description	Standard	Optional
1	Torque Bushing	1045 Steel with Electroless Nickel Plating	MF Stainless Steel
2	Shrink Disc with Bolts		MF Stainless Steel
3	Hollow Shaft	1045 Steel	MF Stainless Steel
4	Support Bushing	Bronze	--
5	Split Ring w/Bolt	1045 Steel with Electroless Nickel Plating	MF Stainless Steel