ZERO-MAX

CD® Power-Series Composite Disc Coupling

Installation Instructions For Shrink Disc Hubs

Tools Required

- Calibrated torque wrench
- Hex socket set
- Shaft alignment tools
- Cleaning cloth
- Caliper

- These instructions are for Shrink Disc Hubs used on special CD Power-Series Couplings. Contact Factory for specifications and tightening torque specifications.
- When initially mounting the coupling, the misalignment may be one and one half times the maximum permissible misalignment. Inspect hub bores and shafts making sure there are no burrs. Clean hub bores and shafts. Standard CD coupling hub bores are supplied with slight clearance fit (see catalog).
- Slide the shrink disc on to the hub and install hub assembly onto shaft. It is recommended that the ends of the shaft be flush with the end of each hub. At minimum, each shaft should extend past the shrink disc by 0.20 inches [5mm]. If the shaft extends past the hub face verify there is enough clearance between shaft and disc pack and the shaft will not contact the disc pack during operation. **Do not tighten shrink disc at this time.**
- Tighten the shrink disc gradually and regularly in a continuous “star” or “crisscross” sequence until all screws reach the recommended tightening torque (contact factory). To reach the required tightening torque it is necessary to repeat the procedure more than once. **Do not apply lubricant on the hub and shaft contact surfaces.**
- Align the shaft and flange within the limits for axial, parallel, and angular misalignment specified. For best alignment results, use a laser alignment tool or dial indicator. If not available, a straight edge and feeler gauges can be used.

Note: Aligning the shafts as closely as possible at the time of initial installation will reduce noise and allow the coupling extra capacity for misalignments and loads which will occur during operation over the life of the connected equipment. Installing and operating coupling at higher degrees of misalignment is possible (see catalog ratings), but will generally reduce the life of the composite disc pack.

Note: Coupling and shaft alignment should be checked periodically due to foundation settling, equipment shifting, etc. Alignment should be re-checked after the first several hours of operation.

- **Dismantling:**
  Loosen the clamping screws in a continuous and gradual “star” or “crisscross” sequence. **Do not remove all the screws from threads until shrink disc has fully released.** In some cases it may be necessary to remove a couple of the screws and thread them into ‘jacking’ tapped holes to release the shrink disc. In case of reuse of the shrink disc, apply a film of lubricant (that can provide a coefficient of friction around 0.04) on the screws and tapered surfaces.

⚠ **Caution: Rotating equipment is potentially dangerous and should be properly guarded. It is the responsibility of the machine builder, user, or operator to follow all applicable safety codes and provide a suitable guard. Make sure the machine is “locked out” and cannot be accidently started during installation or maintenance of coupling.**

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