



MOUNTING INSTRUCTIONS FOR SHRINK DISC COUPLINGS

- 1.0 **INSTALLATION:** Type 08 shrink disc coupling.
- 1.1 **IMPORTANT:** Never tighten the coupling bolts until your TITAN™ motor has been mounted onto the driven shaft. Deformation of the hub projection may occur.
- 1.2 Your TITAN™ motor is delivered with an anti-rust treatment in the hollow shaft and on the coupling and hub projection. Before installing your TITAN™ motor, clean the bore of the hollow shaft, the hub projection, the driven shaft as well as the bore of the shrink disc coupling using a solvent such as trichlorethylene.
- 1.3 Check the bolt threads, bolt head bearing area and the tapers of the inner ring for lubrication. If lubrication is not present, lubricate these surfaces and the outer surface of the hub projection with a molybdenum disulfide grease such as Molykote Gn Paste.
- 1.4 **DEGREASE THE HOLLOW SHAFT BORE AND THE DRIVEN SHAFT!**
- 1.5 Reassemble the shrink disc coupling making sure that all bolts are within the sealing O-ring. A damaged O-ring should be replaced.
- 1.6 Preload the inner ring of the shrink disc coupling by taking any 3 or 4 equally spaced bolts and snugging them up until the clamping rings begin to grip the inner ring.
- 1.7 Check the gap between the clamping rings and be certain that they are parallel.
- 1.8 Slide the shrink disc assembly onto the hub projection of your TITAN™ motor.
- 1.9 Slide your TITAN™ motor onto the driven shaft with the help of an overhead crane or forklift truck. Continue pushing your TITAN™ motor until the driven shaft is flush with or protruding past the hub projection at the rear of the motor.
- 1.10 Using a torque wrench, tighten all bolts gradually all the way around in either a clockwise or counterclockwise sequence (not in a diametrically opposite sequence). In order to avoid misalignment of the two clamping rings during the bolt tightening process, the gap between the clamping rings should be measured in several places during this stage.

The difference between the measured gaps should never vary more than 0.015 of an inch during any stage of the tightening process.
- 1.11 Several passes are required until all bolts are torqued to the specified tightening process.



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1.12 REQUIRED BOLT TIGHTENING TORQUE CHART - TITAN™

TITAN™ MOTOR SIZE	COUPLING SIZE	QTY.	LOCKING BOLTS SIZE	TORQUE (lb.ft.)
345	100-08	12	M 8 x 35	45
410	110-08	9	M10 x 40	55
455	120-08	12	M10 x 40	55
515	140-08	10	M12 x 45	90
575	150-08	12	M12 x 50	90
635	165-08	8	M16 x 55	210
690	185-08	10	M16 x 55	210
745	195-08	12	M16 x 55	210
830	220-08	15	M16 x 60	415
910	240-08	12	M20 x 80	415
1000	280-08x270	16	M20 x 100	415
1100	300-08	18	M20 x 100	415

1.13 Check and make sure that no bolt will turn anymore by applying the specified bolt tightening torque. See Section 3.1.12.

1.14 The gap between the shrink disc clamping rings should be equal all the way around. See Section 1.10.

1.15 It is common for bolt tension to relax over time. Therefore, bolt torque must be checked at the following intervals:

- 24 hours after installation
- 1 week after installation
- 1 month after installation
- every month thereafter

1.16 Install a safety guard over the coupling, if required. Only then is the installation completed.



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2.0 REMOVAL

- 2.1 Gradually release the locking bolts equally one by one in order to avoid tilting the clamping rings. Initially each bolt should be released about a quarter of a turn each. Do not remove the bolts completely at this time otherwise the clamping rings may spring off.
- 2.2 Once the bolts are loose, the hub projection will release its grip on the driven shaft and your TITAN™ motor can be removed from the shaft with the help of an overhead crane or forklift truck.
- 2.3 Before the shrink disc coupling is removed from the hub projection, any rust that may have formed adjacent to it must be removed.

3.0 RE-INSTALLATION

- 3.1 Before using the shrink disc coupling again, disassemble it and inspect all parts and regrease the appropriate places. See Section 1.0.
- 3.2 Inspect the sealing ring and replace if necessary.
- 3.3 Reinstall following the installation procedure beginning with Section 1.4.