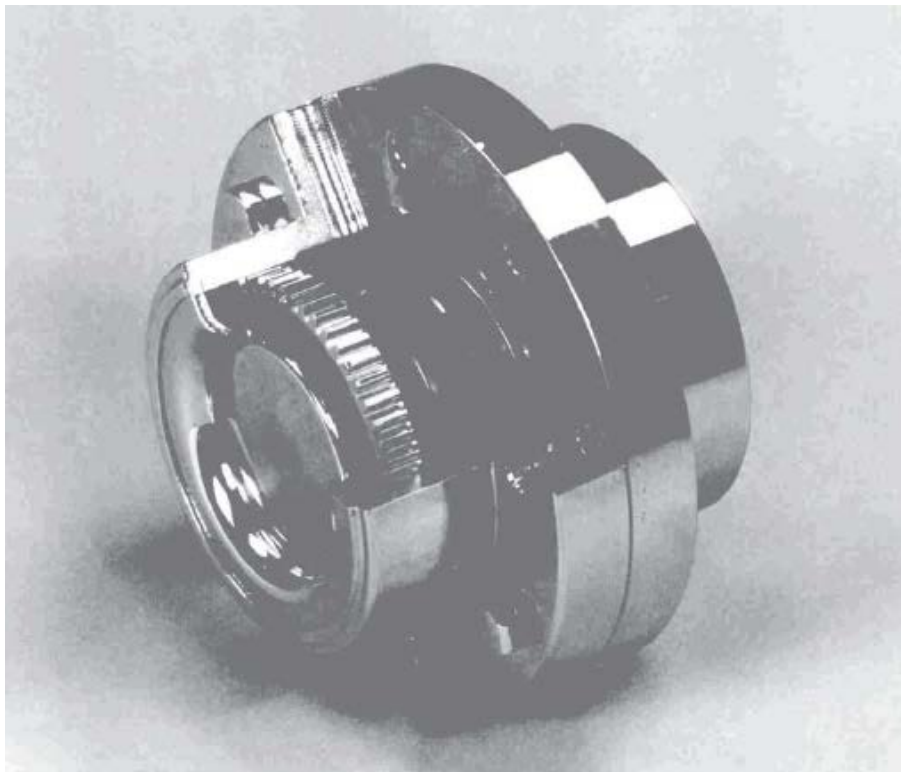


# K100 Series Gear Coupling

Installation & Maintenance Manual

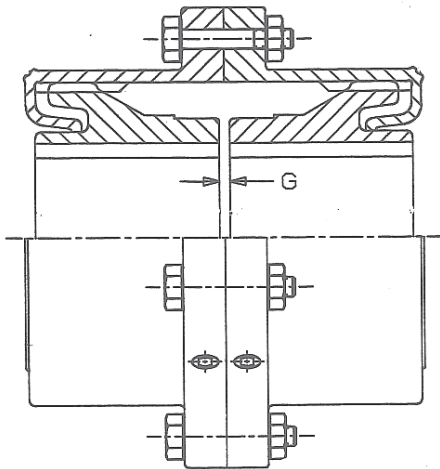
P-5046-TBW  
Form 1248



# K100 Coupling Installation And Maintenance Instructions

## Installation:

1. Be sure all components are present and free of burrs or chips.
2. Place the sleeves over the shaft ends. Slide the sleeve back enough not to interfere with the installation of the hubs.
3. Install the hubs on the respective shafts. Interference fit hubs often require heating the hubs in hot oil or an oven to 320° F prior to installation. The hub faces should be flush with the shaft ends.
4. Locate the driver and driven machinery to maintain the G dimension between the driver and driven hub ends.

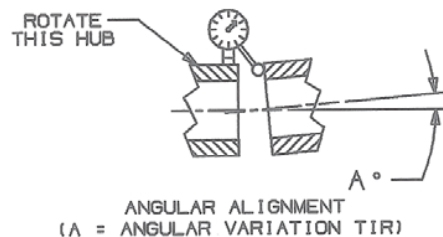


Size	"G"
1-1/2K	0.13
2K	0.13
2-1/2K	0.19
3K	0.19
3-1/2K	0.25
4K	0.25
4-1/2K	0.31
5K	0.31
5-1/2K	0.31
6K	0.31
7K	0.38

5. Using a dial indicator check the angular and parallel alignment of the hubs.

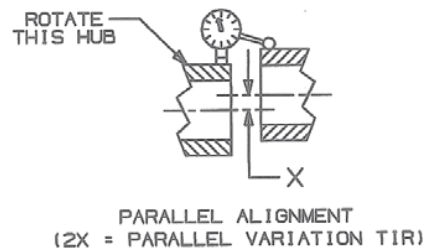
### Angular Method

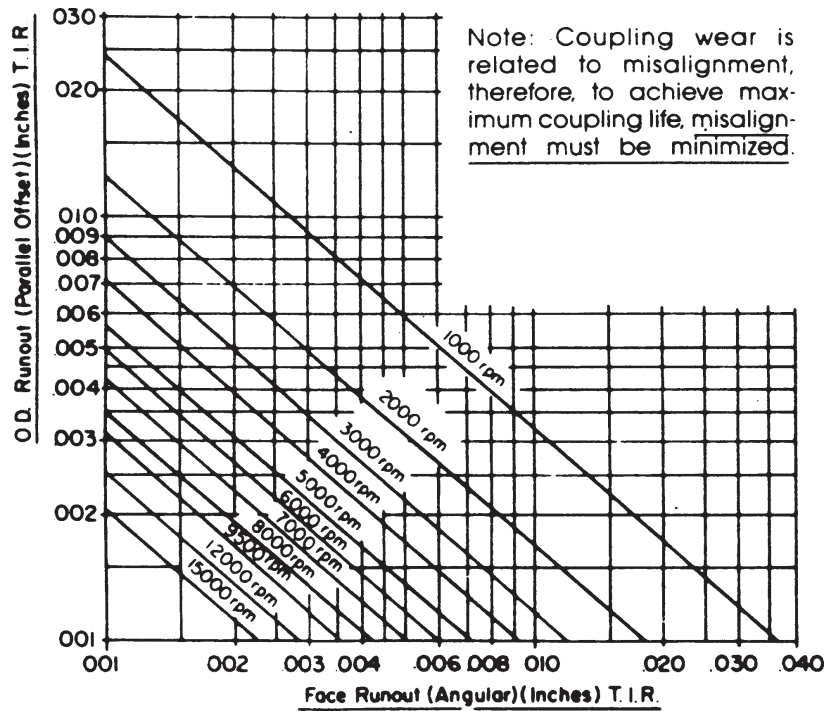
Attach the dial indicator to the base of one hub and the indicator needle against the face of the other hub. Rotate the hub on which the indicator base is attached, check the dial at 90° intervals. All four points should be the same reading on the dial.



### Parallel Method

Attach the dial indicator to the base of one hub and the indicator needle against the OD of the other hub. Rotate the hub on which the indicator base is attached, check the dial at 90° intervals. All four points should be the same reading on the dial.





6. If the coupling is to be grease lubricated, coat all gear tooth areas with grease. Wood's suggest a grease complying to AGMA9001-B97.

7. Slide the sleeves over the hubs and install the gasket between the two sleeves.

8. Install and progressively tighten the bolts with a torque wrench until the proper torque value is met.

Torque (In Lbs)	1-1/2K	2K	2-1/2K	3K	3-1/2K	4K
Exposed Bolt	425	940	1750	1750	2650	2650
Shrouded Bolt	425	425	940	940	1750	1750

Torque (in Lbs)	4-1/2K	5K	5-1/2K	6K	7K
Exposed Bolt	2650	3650	3650	3650	4850
Shrouded Bolt	1750	2650	2650	*	*

9. Remove lubrication plugs in each sleeve, add grease until filled.

*NOTE: If RPM is below minimum, use SAE 90 oil in lieu of grease.*

Size	1-1/2K	2K	2-1/2K	3K	3-1/2K	4K
Grease Cap. (oz.)	5-1/2	7-1/4	15	22	33	55
Minimum RPM	463	411	380	348	321	301

Size	4-1/2K	5K	5-1/2K	6K	7K
Grease Cap. (oz.)	66	88	140	184	240
Minimum RPM	285	268	257	240	227

10. Install a proper coupling guard.

## **Maintenance:**

1. It is recommended that the coupling be completely flushed and relubricated after an initial break-in period of 3 million revolutions. (80 Hr @ 600 RPM)
2. Under normal industrial conditions the coupling should be disassembled, cleaned, and inspected every year. More severe applications may require more frequent inspection and relubrication.
3. During any inspection of the coupling when gear tooth wear is evident of excessive leaking, it is recommended to replace the worn parts.
4. Upon reassembly after inspection always refer to the installation section for proper installation and wrench torques. Always regrease the coupling after inspection. Wood's recommends the use of grease which complies with AGMA9001-B97.



All Customer Service phone numbers shown in bold

Belted Drives and Sheaves	Couplings Cont.	Gearing	Linear Products
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<p><b>Couplings</b></p> <p><b>Ameridrives</b> <i>Mill Spindles, Ameriflex, Ameridisc</i> Erie, PA - USA <b>1-814-480-5000</b> <i>Gear Couplings</i> San Marcos, TX - USA <b>1-800-458-0887</b> <i>Universal Joints, Drive Shafts, Mill Gear Couplings</i> Erie, PA - USA <b>1-920-593-2444</b></p> <p><b>Bibby Turboplex</b> <i>Disc, Gear, Grid Couplings, Overload Clutches</i> Dewsbury, England <b>+44 (0) 1924 460801</b> Boksburg, South Africa <b>+27(0) 11 918 4270</b></p> <p><b>Guardian Couplings</b> <i>Engineered Flywheel Couplings, Engine Housings and Pump Mounts, Flexible Shaft Couplings</i> Michigan City, IN - USA <b>1-219-874-5248</b></p> <p><b>Huco</b> <i>Precision Couplings and Air Motors</i> Hertford, England <b>+44 (0) 1992 501900</b> Chambersburg, PA - USA <b>1-888-829-6637</b></p> <p><b>Lamiflex Couplings</b> <i>Flexible Couplings, Bearing Isolators, and Coupling Guards</i> Cotia, SP - Brasil <b>+55 (11) 4615-6300</b></p>	<p><b>Electromagnetic Clutches and Brakes</b></p> <p><b>Inertia Dynamics</b> <i>Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes</i> New Hartford, CT - USA <b>1-800-800-6445</b></p> <p><b>Matrix</b> <i>Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes</i> Brechin, Scotland <b>+44 (0) 1356 602000</b> New Hartford, CT - USA <b>1-800-825-6544</b></p> <p><b>Warner Electric</b> <i>Electromagnetic Clutches and Brakes</i> New Hartford, CT - USA <b>1-800-825-6544</b> <i>For application assistance:</i> 1-800-825-9050 Saint Barthélemy d'Anjou, France <b>+33 (0)2 41 21 24 24</b> <i>Precision Electric Coils and Electromagnetic Clutches and Brakes</i> Columbia City, IN - USA <b>1-260-244-6183</b></p>	<p><b>Heavy Duty Clutches and Brakes</b></p> <p><b>Industrial Clutch</b> <i>Pneumatic and Oil Immersed Clutches and Brakes</i> Waukesha, WI - USA <b>1-262-547-3357</b></p> <p><b>Svendborg Brakes</b> <i>Industrial Brakes and Brake Systems</i> Vejrstrup, Denmark <b>+45 63 255 255</b></p> <p><b>Twiflex</b> <i>Caliper Brakes and Thrusters</i> Wichita Falls, TX - USA <b>1-844-723-3483</b> Twickenham, England <b>+44 (0) 20 8894 1161</b></p> <p><b>Wichita Clutch</b> <i>Pneumatic Clutches and Brakes</i> Wichita Falls, TX - USA <b>1-800-964-3262</b> Bedford, England <b>+44 (0) 1234 350311</b></p>	<p><b>Overrunning Clutches</b></p> <p><b>Formsprag Clutch</b> <i>Overrunning Clutches and Holdbacks</i> Warren, MI - USA <b>1-800-348-0881</b> – Press #1 <i>For application assistance:</i> 1-800-348-0881 – Press #2</p> <p><b>Marland Clutch</b> <i>Roller Ramp and Sprag Type Overrunning Clutches and Backstops</i> Warren, MI - USA <b>1-800-216-3515</b></p> <p><b>Stieber Clutch</b> <i>Overrunning Clutches and Holdbacks</i> Heidelberg, Germany <b>+49 (0) 6221-30470</b></p>

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