

HOW TO ORDER T10 & T20 COUPLINGS

Table No. 4 KOP-GRID® Couplings — Hubs, Grid, Cover, Seal and Fastener Kits

Cplg. Size	Complete Rough® Bore Couplings		Hubs					T10 Horizontal			T20 Vertical		
	T10 Horizontal Split Cover	T20 Vertical Split Cover	Grid Hub No Bore	Finished Bore and Bored to Size	Grid Hub Bushed	Bush-ing	Tapered Grid Kit	Cover and Grid Assembly	Cover Kit	Accessory Kit	Cover and Grid Assembly	Cover Kit	Accessory Kit
1020	1020T10	1020T20	1020 HUB	1020 HUB x Bore	—	—	1020 GRID	1020T10 CGA	1020T10 COVER	1020T10 AK	1020T20 CGA	1020T20 COVER	1020T20 AK
1030	1030T10	1030T20	1030 HUB	1030 HUB x Bore	—	—	1030 GRID	1030T10 CGA	1030T10 COVER	1030T10 AK	1030T20 CGA	1030T20 COVER	1030T20 AK
1040	1040T10	1040T20	1040 HUB	1040 HUB x Bore	1040 HUBXG	G	1040 GRID	1040T10 CGA	1040T10 COVER	1040T10 AK	1040T20 CGA	1040T20 COVER	1040T20 AK
1050	1050T10	1050T20	1050 HUB	1050 HUB x Bore	1050 HUBXH	H	1050 GRID	1050T10 CGA	1050T10 COVER	1050T10 AK	1050T20 CGA	1050T20 COVER	1050T20 AK
1060	1060T10	1060T20	1060 HUB	1060 HUB x Bore	1060 HUBXP	P1	1060 GRID	1060T10 CGA	1060T10 COVER	1060T10 AK	1060T20 CGA	1060T20 COVER	1060T20 AK
1070	1070T10	1070T20	1070 HUB	1070 HUB x Bore	1070 HUBXP	P1	1070 GRID	1070T10 CGA	1070T10 COVER	1070T10 AK	1070T20 CGA	1070T20 COVER	1070T20 AK
1080	1080T10	1080T20	1080 HUB	1080 HUB x Bore	1080 HUBXQ	Q1	1080 GRID	1080T10 CGA	1080T10 COVER	1080T10 AK	1080T20 CGA	1080T20 COVER	1080T20 AK
1090	1090T10	1090T20	1090 HUB	1090 HUB x Bore	1090 HUBXQ	Q1	1090 GRID	1090T10 CGA	1090T10 COVER	1090T10 AK	1090T20 CGA	1090T20 COVER	1090T20 AK
1100	1100T10	1100T20	1100 HUB	1100 HUB x Bore	1100 HUBXR	R1	1100 GRID	1100T10 CGA	1100T10 COVER	1100T10 AK	1100T20 CGA	1100T20 COVER	1100T20 AK
1110	1110T10	1110T20	1110 HUB	1110 HUB x Bore	1110 HUBXR	R1	1110 GRID	1110T10 CGA	1110T10 COVER	1110T10 AK	1110T20 CGA	1110T20 COVER	1110T20 AK
1120	1120T10	1120T20	1120 HUB	1120 HUB x Bore	1120 HUBXS	S1	1120 GRID	1120T10 CGA	1120T10 COVER	1120T10 AK	1120T20 CGA	1120T20 COVER	1120T20 AK
1130	1130T10	1130T20	1130 HUB	1130 HUB x Bore	1130 HUBXU	U0	1130 GRID	1130T10 CGA	1130T10 COVER	1130T10 AK	1130T20 CGA	1130T20 COVER	1130T20 AK
1140	1140T10	1140T20	1140 HUB	1140 HUB x Bore	1140 HUBXU	U0	1140 GRID	1140T10 CGA	1140T10 COVER	1140T10 AK	1140T20 CGA	1140T20 COVER	1140T20 AK

- ① To order complete Rough Bore Couplings, specify by Part Number only, for example “1020T10”; Rough Bore Hubs, and T10 Cover and Grid Assembly is included.
- ② To order a Coupling with Finished Bore or Bored to Size Hubs, order two hubs, one Cover and Grid Assembly. Specify Hub Part Number x Bore Size, for example “1020HUBx5/8”. If the bore size indicated is shown in Table No. 4, above, then the hub is a Standard Finished Bore Hub; otherwise a Rough Bore Hub must be rebored.
- ③ To order a Coupling with Split Taper Bushings, order two Bushed Hubs and two appropriate Bushings, one Cover and Grid Assembly.
- ④ Cover Kits include Seal and Fastener Sets. The Assembly Kits shown are for REPLACEMENT ONLY.

Coupling Greases

KOP-FLEX offers greases specifically designed for use in coupling applications. For proper lubrication and long service life, use KSG Standard Coupling Grease, or KHP High Performance Coupling Grease. See pages 204-206 for detailed specifications.

Table No. 5 Standard Clearance Bored Hubs with Set-Screws

Hub Part No.*	Standard Bores (Inches)																			
	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2	2 5/8	2 3/4	2 7/8
1020H	X	X	X	X	X	X														
1030H		X	X	X	X	X	X	X												
1040H				X	X	X	X	X	X	X										
1050H						X	X	X	X	X	X	X								
1060H								X	X	X	X	X	X	X						
1070H										X	X	X	X	X	X	X				
1080H													X	X		X	X		X	X
1090H														X		X	X			X

*Complete Hub Part Number by adding Bore Size. Other bores are available by boring Rough Bore Hubs.
 NOTE— Hub Numbers 1020 HUB through 1190 HUB have clearance fit bores with setscrew over Keyway.
 — Hub Numbers 1100 HUB through 1140 HUB have interference fit bores with no Setscrew.



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Engineering Data

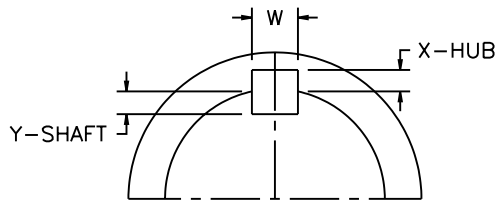
Type T10 & T20 Grid Hub Bore Capacity with Square and Rectangular Keys ① ②

Size	For One Square Key			For One Rectangular Key					
	Max. Bore (in.)	Y = X		Max. Bore (in.)	Y = X		Max. Bore (in.)	Y = W/2	
		W	X		W	X		W	X
1020	1.125	.250	.125	1.187	.250	.093	1.250	.250	.062
1030	1.375	.312	.156	1.437	.375	.125	1.562	.375	.062
1040	1.625	.375	.187	1.750	.375	.125	1.750	.375	.062
1050	1.875	.500	.250	2.000	.500	.187	2.125	.500	.125
1060	2.125	.500	.250	2.250	.500	.187	2.375	.625	.125
1070	2.500	.625	.312	2.687	.625	.218	2.875	.750	.125
1080	3.000	.750	.375	3.250	.750	.250	3.375	.875	.187
1090	3.500	.875	.437	3.750	.875	.312	3.875	1.000	.250
1100	4.000	1.000	.500	4.250	1.000	.375	4.500	1.000	.250
1110	4.500	1.000	.500	4.625	1.250	.437	5.000	1.250	.250
1120	5.000	1.250	.625	5.375	1.250	.437	5.750	1.500	.250
1130	6.000	1.500	.750	6.500	1.500	.500	6.500	1.500	.250
1140	7.000	1.750	.875	7.250	1.750	.750	7.750	2.000	.500

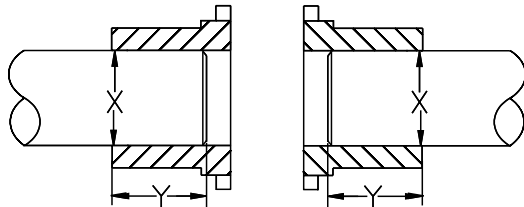
① Size 1020 thru 1090 are furnished with Clearance Fit and one setscrew over the keyway, unless otherwise specified.

② Size 1100 thru 1140 are furnished with Interference Fit and no setscrews, unless otherwise specified.

③ Standard keyway and bore tolerances (Reference: AGMA Standard 9002-A86)



Note: Dimension "Y" (Shaft Keyway Depth) equals one-half of square key. Check key stresses.



Shaft Engagement

When the distance between the shaft ends is greater than the coupling gap, each shaft must engage the hub by an amount at least equal to the shaft diameter. (Dimension Y must be equal to, or greater than, Dimension x).

Misalignment Capacity

Size	Recommended Installation Maximum		Maximum Operating		Normal Gap ± 10%	
	Offset (Parallel)	Angular X-Y	Offset (Parallel)	Angular X-Y	T10, T20, T31	T35
1020	0.006	0.003	0.012	0.010	0.125	0.188
1030	0.006	0.003	0.012	0.012	0.125	0.188
1040	0.006	0.003	0.012	0.013	0.125	0.188
1050	0.008	0.004	0.016	0.016	0.125	0.188
1060	0.008	0.005	0.016	0.018	0.125	0.188
1070	0.008	0.005	0.016	0.020	0.125	0.188
1080	0.008	0.006	0.016	0.024	0.125	0.188
1090	0.008	0.007	0.016	0.028	0.125	0.188
1100	0.010	0.008	0.020	0.033	0.188	0.250
1110	0.010	0.009	0.020	0.036	0.188	0.250
1120	0.011	0.010	0.022	0.040	0.250	0.375
1130	0.011	0.012	0.022	0.047	0.250	0.375
1140	0.011	0.013	0.022	0.053	0.250	0.375

