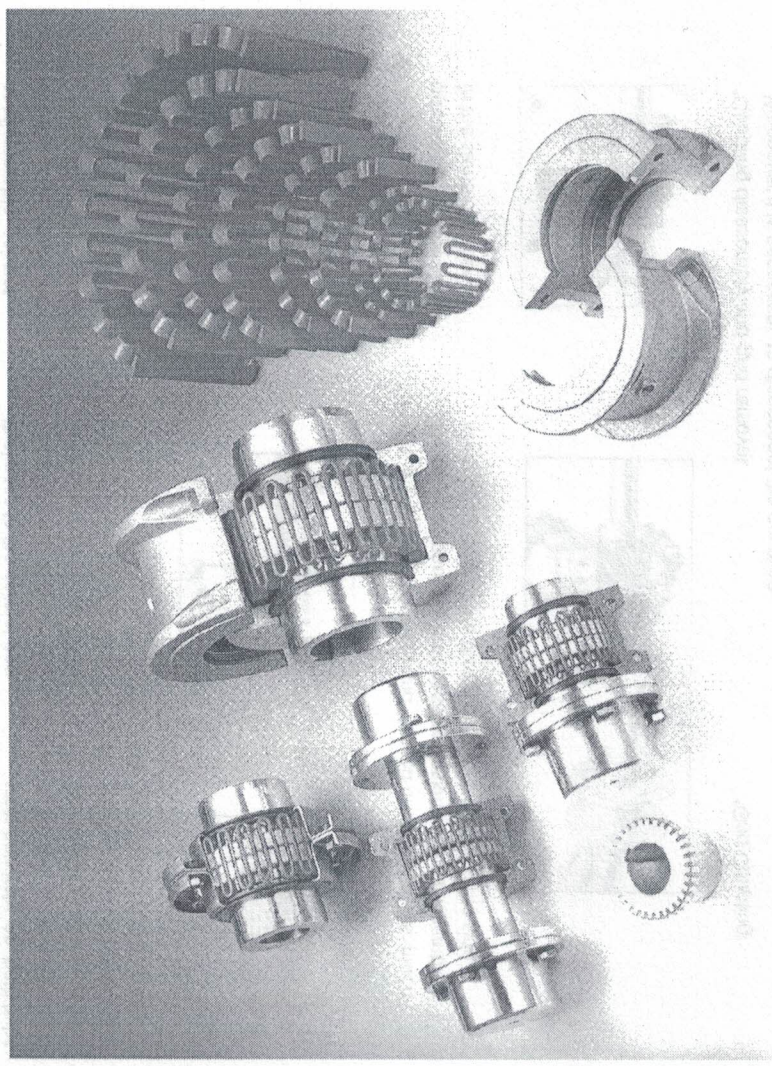


TAPER GRID COUPLING



...the most important factor in the selection of a taper grid coupling is the quality of the materials used in its construction. The most common materials used are stainless steel and aluminum. The quality of the materials is crucial to the performance and longevity of the coupling. The most common failure mode is fatigue failure, which is caused by the repeated loading and unloading of the coupling. The quality of the materials is also important for the safety of the application. A failure of the coupling could result in the failure of the entire system, which could be catastrophic. Therefore, it is essential to select a high-quality taper grid coupling for your application.

Model	Shaft Diameter (mm)	Hub Diameter (mm)	Hub Length (mm)	Weight (kg)	Material
TC-100	100	110	100	1.5	Stainless Steel
TC-125	125	135	125	2.5	Stainless Steel
TC-150	150	160	150	4.0	Stainless Steel
TC-175	175	185	175	6.0	Stainless Steel
TC-200	200	210	200	8.5	Stainless Steel
TC-225	225	235	225	12.0	Stainless Steel
TC-250	250	260	250	16.0	Stainless Steel
TC-275	275	285	275	21.0	Stainless Steel
TC-300	300	310	300	26.0	Stainless Steel
TC-325	325	335	325	32.0	Stainless Steel
TC-350	350	360	350	39.0	Stainless Steel
TC-375	375	385	375	47.0	Stainless Steel
TC-400	400	410	400	56.0	Stainless Steel
TC-425	425	435	425	66.0	Stainless Steel
TC-450	450	460	450	77.0	Stainless Steel
TC-475	475	485	475	89.0	Stainless Steel
TC-500	500	510	500	102.0	Stainless Steel

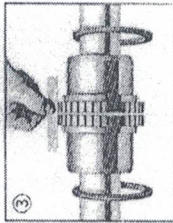
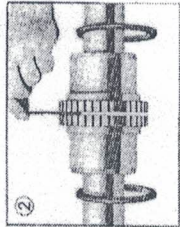
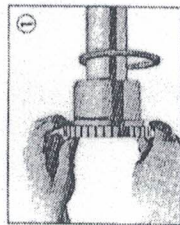
The taper grid coupling is a type of coupling that is used to connect two shafts. It consists of a shaft and a hub. The shaft is inserted into the hub, and the two are joined together by a taper. The taper is formed by the shaft and the hub, and it is this taper that provides the coupling with its strength. The taper grid coupling is a simple and reliable design that is used in a wide variety of applications. It is commonly used in the automotive industry, in the construction industry, and in the industrial machinery industry. The taper grid coupling is a good choice for applications where a simple and reliable design is required.

Model	Shaft Diameter (mm)	Hub Diameter (mm)	Hub Length (mm)	Weight (kg)	Material
TC-100	100	110	100	1.5	Stainless Steel
TC-125	125	135	125	2.5	Stainless Steel
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TC-475	475	485	475	89.0	Stainless Steel
TC-500	500	510	500	102.0	Stainless Steel

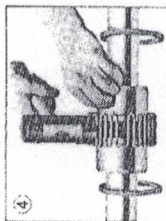
Instruction for Installation

The performance and life of the coupling depend largely on how you install and service them. This bulletin helps you to assemble the coupling for the best performance and trouble free service. TH Taper Grid Coupling is designed to operate to either the horizontal or vertical position without modification.

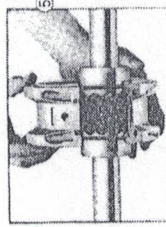
- 1) In case of TH type
 - ① Clean all metal parts using nonflammable solvent. Lightly coat seals with grease and place on shaft before mounting hub. Mount hubs on the shafts.
 - ② Using a spacer bar, equal in thickness to the normal gap. The difference in maximum measurements must be not exceed the angular limit.
 - ③ Align so that a straight edge rests squarely on both hubs as shown fig. And also at 90° interval. The clearance with dialgauge must not exceed the limit specified in table 2.



- ④ After greasing the tooth groove hub, fix the GRID in the same direction.

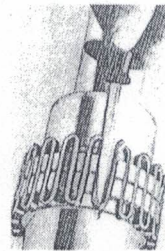


- ⑤ Pack the spaces between and around the grid with as much lubricants as possible and position gaskets on half assembled lower cover so that the match marks are on the same side.



*Coupling disassembly and grid removal.

Whenever it is necessary to disconnect the coupling remove the cover halves and grid. A round rod or screw driver that will conveniently fit into the open loop ends of the grid is required. Begin at the open end of the grid section and insert the rod or screw driver into the loop end. Use the teeth adjacent to each loop as a fulcrum and pry the grid out radially in even, gradual stages, proceeding alternately from side to side.



* Only standard mechanic tools, wrenches, a straight edge and feeler gauge are required to install the Taper Grid Coupling.

misalignment capacity TABLE 1 (Unit : mm)

Size	Recommended installation		Operating		Normal gap $\pm 10\%$
	Parallel offset p	Angular (1/16°) X - Y	Parallel offset p	Angular (1/4°) X - Y	
1020	0.15	0.06	0.3	0.24	3
1030	0.15	0.07	0.3	0.29	3
1040	0.15	0.08	0.3	0.32	3
1050	0.20	0.10	0.4	0.39	3
1060	0.20	0.11	0.4	0.45	3
1070	0.20	0.12	0.4	0.50	3
1080	0.20	0.15	0.4	0.61	3
1090	0.20	0.17	0.4	0.70	3
1100	0.25	0.20	0.5	0.82	4.5
1110	0.25	0.22	0.5	0.90	4.5
1120	0.28	0.25	0.56	1.01	6
1130	0.28	0.30	0.56	1.19	6
1140	0.28	0.33	0.56	1.34	6
1150	0.30	0.39	0.6	1.56	6
1160	0.30	0.44	0.6	1.77	6
1170	0.30	0.50	0.6	2.00	6
1180	0.38	0.56	0.76	2.26	6
1190	0.38	0.61	0.76	2.44	6
1200	0.38	0.68	0.76	2.72	6

Lubrication and Handling

You should choose the adequate lubricated for Wcc Taper Grid Coupling to support good performance and long life.

1) Grease Lubrication

Pack the spaces between and around the grid. After assemble the covers, fill up grease through the lube pulgs.

2) Supplement and Replacement

Every Three month, or 240~250 hours later operating you should supply grease. Every 3 months, or 4,000 hours later operating you should replace after get rid of deteriorated grease.

3) Selection

The handling of temperature for grease is from 17° C to 70° C. You choose grease according to the rpm and Circumstance in table 2.

TABLE 2

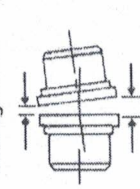
Manufacturer	Grid Coupling	Manufacturer	Grid Coupling
Gulf Oil Corp.	Gulfcrown Grease # 2	Texaco Inc.	Mafak Heavy Duty # 2
Shell Oil Corp.	Alvania Grease # 2	Mobil Oil Corp.	Mpbilux # 2

* Note : Lubricants listed in this manual are the typical products ONLY and should not be construed as exclusive recommendations.

Misalignment



ANGULAR Misalignment



GAP

