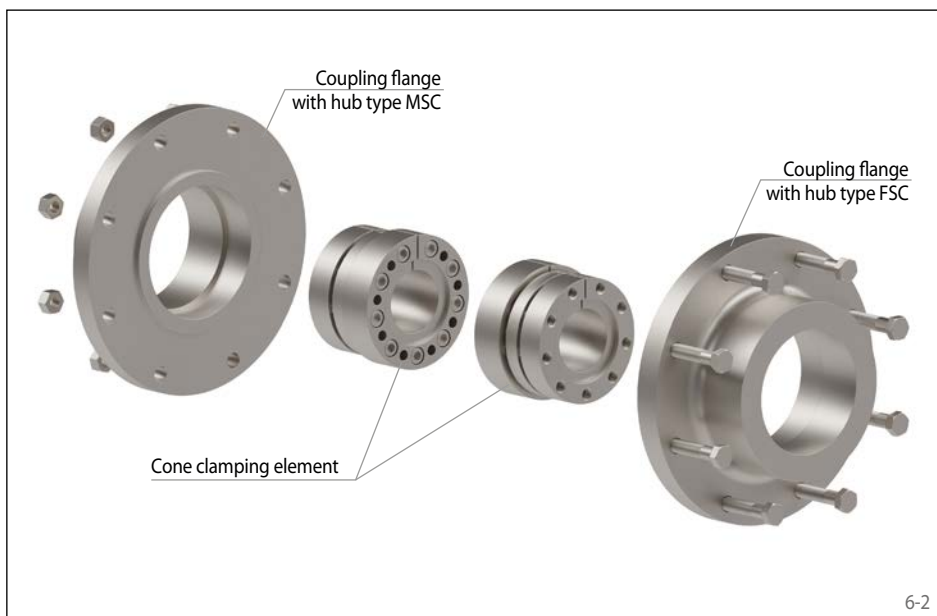




6-1



6-2

Transmissible torques

The transmissible torques listed on the following page are subject to the listed tolerances, surface finishes and material requirements. Please contact RINGSPANN in case of deviations.

Tolerances

- h8 for shaft diameters d_F or d_M

Surfaces

Average surface finish at the contact surfaces of the shafts $R_z = 10 \dots 25 \mu m$.

Materials

RINGSPANN is able to recommend suitable shaft materials using DIN 743 (12/2012 edition) taking the surface pressures for the Tru-Line Flange-Couplings RFK ... TBO into account.

Simultaneous transmission of torque, axial force and bending moment

Where there are combinations of axial forces and/or bending moments in the application in addition to the torque T_N , the max. transmissible torque will be reduced as compared to the values for $T_{K \max}$ shown in the tables.

RINGSPANN will select the proper coupling for each application based upon the allowed transmissible torque under existing bending moment conditions. Our selection calculations are in accordance with the latest scientific knowledge and experience in the industry and will include the proper safety factor to prevent fretting corrosion. Please contact RINGSPANN.

Features

- Compact design
- Small axial space required for installation
- Quick disassembly for minimal downtime
- Large allowable shaft tolerance of h8
- Shafts are not weakened by keyways
- No fretting corrosion like with keyway connections
- Typical applications: Drive units and conveyor drives e.g. in mining

Order example

Order example	Code
Coupling design	RFK
Coupling size of smaller coupling half	0050
Type	TBO
Material of the hub:	STA
• Steel	
Hub A, type:	
• Flange with Female Pilot	F
• Flange with Male Pilot	M
Hub A, design:	SC
• Frictional Shaft-Hub-Connection	
Bore diameter d_F or d_M	025
Hub B, type:	
• Flange with Female Pilot	F
• Flange with Male Pilot	M
Hub B, design:	SC
• Frictional Shaft-Hub-Connection	
Bore diameter d_F or d_M	025

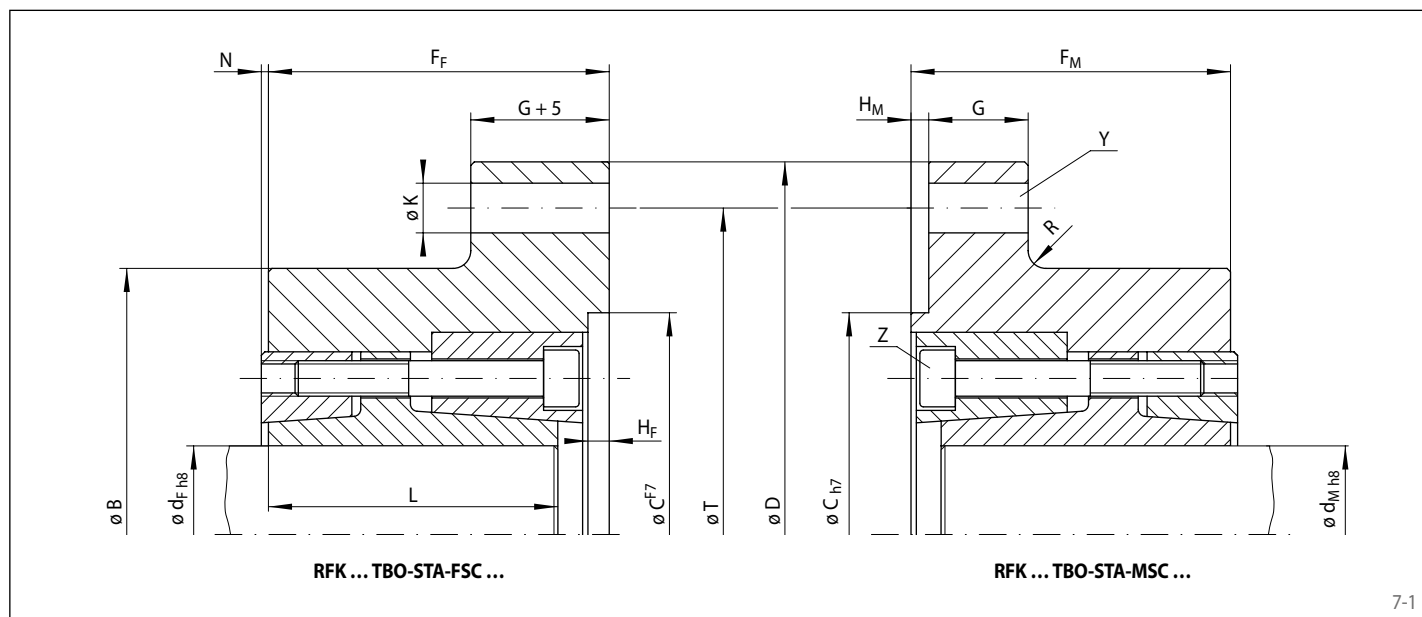
RFK 0050 TBO-STA-FSC025-MSC025

Order information

The coupling halves and the fasteners set can also be ordered separately.

The indication of the coupling half corresponds to the size of the smaller coupling half.

backlash-free cone clamping connection



7-1

Tru-Line Flange-Coupling RFK Size		Shaft d _F or d _M mm	Max. transmissible torque T _{K max} Nm	Inertia moment at max. bore		B	C	D	F _F	F _M	G	H _F	H _M	K	L	N	R	T	Flange connection screws		Cone clamping screws		Weight**	
FSC Female Pilot	MSC Male Pilot			J _{KM} kgm ²	J _{KF} kgm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Y* Tightening torque Nm		Z Tightening torque Nm		FSC kg	MSC kg
0050	0050	min. 25 max. 50	2500 5250	0,0185	0,0235	120	100	190	70	65	10	5	3	11	60	3	10	160	8 x M10 x 40	71	8 x M8	42	7,3	6,4
0070	0070	min. 50 max. 70	6300 10000	0,0938	0,1126	170	150	260	86	81	15	5	3	15	75	3	15	230	8 x M14 x 60	195	9 x M10	83	17,4	15,7
0090	0090	min. 70 max. 90	16000 20000	0,285	0,327	200	180	320	105	95	25	7	5	18	90	6	15	280	8 x M16 x 75	300	9 x M12	144	31,1	28,6
0115	0115	min. 90 max. 115	28000 35500	0,739	0,847	230	300	400	115	105	30	10	6	25	100	5	40	350	8 x M24 x 100	1020	7 x M14	229	49,2	49,5
0140	0140	min. 115 max. 140	45000 56000	0,868	0,984	270	300	400	115	105	30	10	6	25	100	5	20	350	8 x M24 x 100	1020	10 x M14	229	53,8	52,8
0170	0170	min. 140 max. 170	90000 112000	3,55	3,96	330	300	560	145	135	35	12	8	32	128	8	30	480	18 x M30 x 120	2030	11 x M16	354	120	112,4
0210	0210	min. 170 max. 210	160000 200000	4,29	4,74	390	300	560	145	135	36	12	8	32	128	8	20	480	18 x M30 x 120	2030	16 x M16	354	138	126,8
0211	0211	min. 170 max. 210	160000 200000	7,16	7,88	430	350	630	145	135	40	12	8	32	128	8	20	550	18 x M30 x 130	2030	16 x M16	354	182,3	169,8
0250	0250	min. 210 max. 250	265000 315000	8,54	9,30	470	350	630	160	150	40	12	8	32	140	7	10	550	18 x M30 x 130	2030	14 x M20	692	204,9	189,2
0270	0270	min. 250 max. 270	375000 400000	13,9	15,1	510	550	710	180	170	40	12	8	32	160	8	30	630	24 x M30 x 130	2030	16 x M20	692	255,2	255,1
0290	0290	min. 270 max. 290	450000 490000	16,0	17,3	550	550	710	180	170	40	12	8	32	160	8	15	630	24 x M30 x 130	2030	19 x M20	692	276,5	272,9
0321	0321	min. 290 max. 320	520000 540000	24,2	26,1	580	550	800	200	190	45	12	8	32	180	11	15	720	28 x M30 x 150	2030	20 x M20	692	338,6	330,3
0350	0350	min. 320 max. 350	590000 625000	29,6	31,7	630	550	800	200	190	45	12	8	32	180	11	15	720	28 x M30 x 150	2030	20 x M20	692	402,7	386,9

Paired coupling halves of the same colour can be interchanged due to matching flange patterns. The maximum torques of the smaller coupling half apply.
 * Number of connection screws Y in accordance DIN EN ISO 4014 property class 10.9 or 12.9 for RFK 0050 TBO on pitch circle T.
 ** for min. bore

Mounting

The installation and operating instruction for Tru-Line Flange-Couplings RFK ... TBO is available on request.