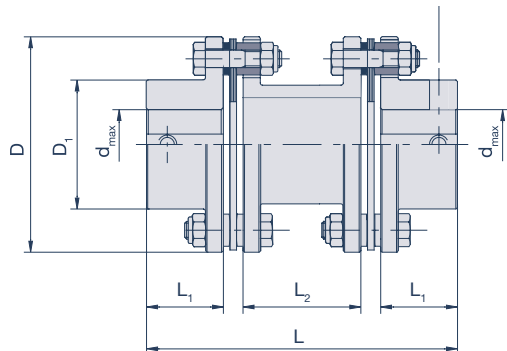


Diskflex GTR | Phosphated steel

Hub version, double cardanic



Specifications

Size	D mm	D ₁ mm	L mm	L ₁ mm	L ₂ [*] mm	M	d _{max} mm	max. rpm min ⁻¹	T _{Kmax} Nm	T _{KN} Nm	T _{KW}	C _T kNm/rad	g kg	Misalignment		
														angular °	axial mm	radial mm
GTR0**	78	45	123	29	50	M5	32	14.500	120	60	20	42	1,7	1,3	1,4	0,7
GTR1**	80	45	138	36	50	M5	32	14.200	200	100	33	51	1,8	1,3	1,6	0,8
GTR2**	92	53	150	42	50	M5	38	12.500	300	150	50	71	3,5	1,3	1,8	0,8
GTR3**	112	64	171	46	59	M8	45	10.200	600	300	100	184	5,8	1,3	2,4	0,95
GTR4**	136	76	211	56	75	M8	52	8.500	1.400	700	233	422	9,4	1,3	2,8	1,2
GTR5**	162	92	253	66	95	M8	65	7.000	2.200	1.100	366	803	15,2	1,3	3,2	1,45
GTR6	182	112	290	80	102	M8	80	6.300	3.400	1.700	566	1.019	23	1,3	4	1,55
GTR7	206	128	315	92	101	M10	90	5.500	5.200	2.600	866	1.596	34	1,3	4,4	1,55
GTR8	226	133	380	100	136	M10	95	5.000	8.000	4.000	1.333	3.996	47	1,3	4,8	2,15
GTR9	252	155	400	110	130	M12	110	4.500	14.000	7.000	2.333	5.192	61	1,3	5,0	2,15
GTR10	296	170	448	120	144	M12	120	3.800	20.000	10.000	3.333	6.690	96	1,3	5,2	2,4
GTR11***	318	195	480	140	136	M16	138	3.600	24.000	12.000	4.000	6.748	132	1,3	5,8	2,4
GTR12***	352	218	550	155	172	M20	155	3.200	50.000	25.000	8.333	15.900	173	1	5,8	1,3
GTR13***	386	252	650	175	226	M20	175	3.000	70.000	35.000	11.666	21.800	208	1	6,2	1,7
GTR14***	426	272	690	190	236	M24	190	2.700	100.000	50.000	16.666	27.000	280	1	6,8	1,8
GTR15***	456	292	740	205	246	M24	205	2.500	130.000	65.000	21.666	32.000	350	1	7,7	1,9

M= Screw size, d_{max} = max. bore diameter, T_{Kmax} = Maximum torque, T_{KN} = Nominal torque, T_{KW} = Alternating torque, C_T = Torsional stiffness, g = Mass, L₂ = Standardlänge Hülse

*L₂: Couplings can also be supplied as spacer shaft couplings with a selectable intermediate shaft length. Please do not hesitate to contact us.

**The Diskflex GTR is also available in sizes 0 to 5 in a clamping hub design. Our application consultants will be happy to provide you with information on the maximum permissible bore diameters and transmittable torques.

***Please note: Minimum order quantities apply for the Diskflex GTR in sizes 11 to 15. More information is available on request.

Ordering example:

GTR3 ø40 ø40

Diskflex Size 3, Bore 40 and 40



The various technical parameters play a decisive role in the selection of the Diskflex. Parameters such as maximum speeds, occurring shaft misalignments and drive torque should be taken into account. The required coupling size can be roughly calculated using the following formula:

Serie GDC, ZDC, GDT

$$T_{KN} > T_A \times C_S$$

The nominal torque T_{KN} of the selected coupling size should be greater than the drive torque T_A in Nm (results from the manufacturer's specification of the drive motor) multiplied by the operating factors of the application.

For servo applications, it should be noted that the acceleration torque of these servomotors is many times higher than their rated torques. The design is based on the highest peak torque to be regularly transmitted on the drive side (for servomotors, this is e.g. the maximum acceleration torque in Nm)

Shock factor C_S

	Continuous motion sequence	Dynamic motion sequence with frequent start-stop	Dynamic motion sequence with frequent reversing operation
Factor C_S	1,0	2,0	4,0

Please note the maximum permissible bore diameter and the corresponding displacement capacity for the selected coupling size. These can be found in the table for the corresponding coupling size.

Serie GTR

$$T_{KN} > T_A \times C_S \times C_D \times C_T$$

Impact factor C_S

	uniform load	non-uniform load	impact load
Factor C_S	1	2	3-4

Direction factor C_D

	continuous, one-sided direction of rotation	alternating direction of rotation, reversing operation
Factor C_D	1,0	1,2

Temperature factor C_T

	Operating temperature $\leq 150^\circ\text{C}$	Operating temperature $150^\circ\text{C} - 200^\circ\text{C}$	Operating temperature $200^\circ\text{C} - 250^\circ\text{C}$
Factor C_T	1,0	1,0 - 1,15	1,15 - 1,25

*„briefly and concisely ...
explained“*

OUR PICTOGRAMS



High temperature resistance



Vibration damping



Axially pluggable



High radial misalignment



Backlash-free



Torsionally rigid



High angular misalignment



High speeds



Electrically insulating



Corrosion resistant