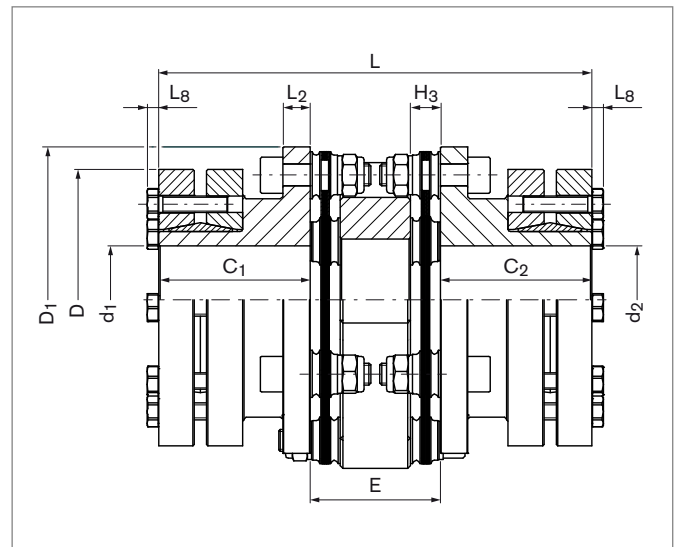


Steel Disc Couplings

RINGFEDER® TND QCQ

Hubs with Open Flange and RINGFEDER® Shrink Discs, Double-Jointed, with Compact-Spacer, Shaft-Hub Connection by Shrink Disc



Size	T _{KNHD} 1)	T _{KNHT} 1)	n _{max}	d ₁ ; d ₂ 3) min	d ₁ ; d ₂ 3) max	C ₁ / C ₂	E	H ₃	D ₁	L ₂	L	n _{Sc}	L ₈
QCQ	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm	mm	Quantity	mm
82	750	1050	3600	38	65	55	46,5	10,5	116	10	156,5	6	5,3
98	1350	1750	3600	50	70	60	55	12	140,5	11	175	6	5,3

Size	G _{wsp}	C _{TdynHD}	C _{TdynHT}	Max. Permissible Misalignment 7)					
				axial	axial	angular	angular	radial	radial
				ΔK _{aHD}	ΔK _{aHT}	ΔK _{wHD}	ΔK _{wHT}	ΔK _{rHD}	ΔK _{rHT}
QCQ	kg	10 ⁶ Nm/rad	10 ⁶ Nm/rad	mm	mm	Degrees	Degrees	mm	mm
82	1,8	0,309	0,360	1,4	0,6	2	1,4	0,5	0,4
98	2,9	0,569	0,607	2	1	2	1,4	0,7	0,5

1) When selecting the coupling size, it is essential to observe the instructions on coupling dimensioning in the document "Product Paper & Tech Paper RINGFEDER® Steel Disc Couplings". Short-term peak torque T_{kmax} is limited to 1.75 multiples of T_{KN} or by the transmissible torque T of the shrink disc.

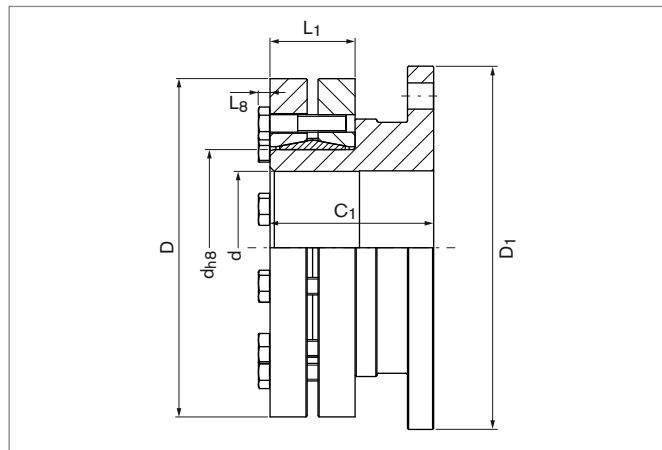
3) Bore tolerance H6 up to diameter 80 mm; Bore tolerance H7 from diameter 80 mm.

7) The maximum misalignment values must not apply simultaneously. The instructions on coupling dimensioning in the document "Product Paper & Tech Paper RINGFEDER® Steel Disc Couplings" are to be observed.

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Steel Disc Couplings RINGFEDER® TND QCQ

Shaft-Hub Connection by Shrink Discs RINGFEDER® RfN 4061



Shrink Discs RINGFEDER® RfN 4061						Sizing RINGFEDER® TND QCQ							
d _{h8}	x	D	L ₁	L ₈	d	T	Size	D ₁	C ₁ / C ₂	T _{KNHD} ¹⁾	T _{KNHT} ¹⁾	n _{max}	G _{WHS}
mm			mm	mm	mm	Nm	QCQ	mm	mm	Nm	Nm	1/min	kg
50	x	90	27,5	4	38	1350	82	116	55	750	1050	3600	2,2
					40	1500							
					42	1700							
55	x	100	30,5	4	42	1300	82	116	55	750	1050	3600	2,3
					45	1550							
					48	1800							
68	x	115	30,5	4	48	1700	82	116	55	750	1050	3600	2,7
					55	2250							
					60	2850	98	140,5	60	1350	1750	3600	3,4
75	x	138	32,5	5,3	55	2650	98	140,5	60	1350	1750	3600	4,2
					60	3300							
					65	4050							
80	x	145	32,5	5,3	60	3200	98	140,5	60	1350	1750	3600	4,4
					65	3900							
					70	4600							

The transmissible torque of the coupling is dependent on the selected disc pack as well as the type of the shaft-hub connection.
The lower torque limits the transmissibility and must be taken as a basis for the selection of the coupling.

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Steel Disc Couplings RINGFEDER® TND QCQ

Explanations

T_{KNHD} = Nom. transmissible torque with disc pack HD	L_2 = Hub flange thickness	ΔK_{wHT} = Max. permissible angular misalignment with disc pack HT
T_{KNHT} = Nom. transmissible torque with disc pack HT	L = Total length	ΔK_rHD = Max. permissible radial misalignment with disc pack HD
n_{max} = Max. rotational speed	n_{Sc} = Quantity of screws	ΔK_rHT = Max. permissible radial misalignment with disc pack HT
d_{1min} = Min. bore diameter d_1	L_8 = Overhang length	
d_{2min} = Min. bore diameter d_2	GW_{sp} = Weight of spacer	
d_{1max} = Max. bore diameter d_1	GW_{hs} = Weight of hub including shrink disc	
d_{2max} = Max. bore diameter d_2	C_{TdynHD} = Dynamic torsional stiffness with disc pack HD	Shrink Disc Selection
C_1 = Guided length in hub bore	C_{TdynHT} = Dynamic torsional stiffness with disc pack HT	d_{h8} = Inner diameter
C_2 = Guided length in hub bore	ΔK_aHD = Max. permissible axial misalignment with disc pack HD	D = Outer diameter
E = Distance between hubs	ΔK_aHT = Max. permissible axial misalignment with disc pack HT	L_1 = Min. installation length (without screws)
H_3 = Width of the disc pack	ΔK_wHD = Max. permissible angular misalignment with disc pack HD	L_8 = Overhang length
D_1 = Max. outer diameter		d = Solid shaft diameter
		T = Transmissible torque

Ordering example

Type	Size	Disc pack	Bore diameter d_1	Shrink Disc RfN 4061 for bore diameter d_1	Bore diameter d_2	Shrink Disc RfN 4061 for bore diameter d_2
TND QCQ	98	HD	50	68 x 115	60	68 x 115

Further information on RINGFEDER® TND QCQ

Technical Information

- The specified values for transmissible torques are valid as follows: Shaft tolerance h6 for shaft diameters up to 50 mm; Shaft tolerance g6 for shaft diameters from 50 mm; Surface quality $R_a \leq 3.2 \mu m$.
- From a peripheral speed of 30 m/s, separate balancing of the individual coupling parts is recommended.
- Without further instructions on balancing, the coupling parts are balanced individually according to DIN 21940-11 in quality G 6,3 at 1,500 1/min. The hubs and the spacer are balanced without screwed-on disc packs.

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