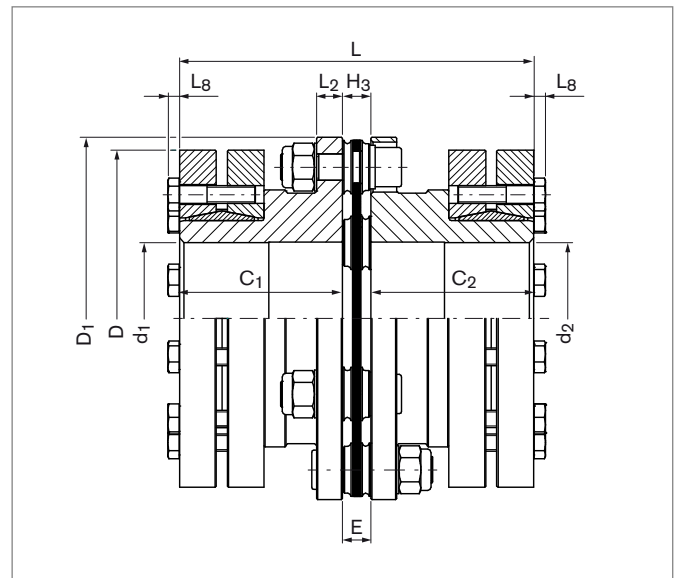


Steel Disc Couplings

RINGFEDER® TND XSX

Hubs with RINGFEDER® Shrink Discs, Single-Jointed, without 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}
XSX	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm	mm	Quantity
82	750	1050	3600	38	60	55	10,5	10,5	116	10	120,5	6
98	1350	1750	3600	50	70	60	12	12	140,5	11	132	6
118	2400	3000	3600	50	75	75	13	13	166,5	12	163	6
141	4000	5200	3400	65	95	90	15	15	198,5	14	195	6
169	6500	8500	3000	65	105	125	21	21	238	16	271	6
205	21000	26000	2500	95	145	160	28	28	295	22	348	8
254	36000	44000	2100	95	160	200	32,5	32,5	345	26	432,5	8

Size	G _{Wsp}	C _{TdynHD}	C _{TdynHT}	Max. Permissible Misalignment ⁷⁾					
				axial		angular		radial	
	kg	10 ⁶ Nm/rad	10 ⁶ Nm/rad	ΔK _{aHD}	ΔK _{aHT}	ΔK _{wHD}	ΔK _{wHT}	ΔK _{rHD}	ΔK _{rHT}
XSX				mm	mm	Degrees	Degrees	mm	mm
82	0,5	0,637	0,743	0,7	0,4	1	0,7	---	---
98	0,85	1,173	1,251	1	0,6	1	0,7	---	---
118	1,36	2	2,082	1,2	0,8	1	0,7	---	---
141	2,096	2,992	3,142	1,4	0,8	1	0,7	---	---
169	4,032	5,269	6,586	1,5	1,2	1	0,7	---	---
205	10,903	21,848	22,285	1,1	0,6	0,5	0,4	---	---
254	18,135	37,204	37,868	1,1	0,8	0,5	0,4	---	---

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.

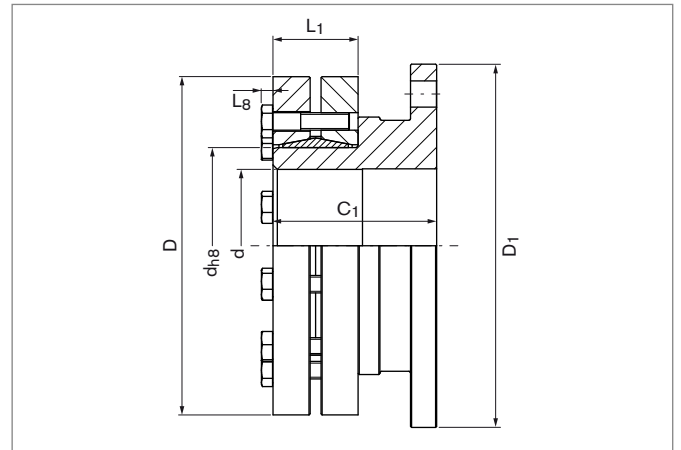
3) Bore tolerance H6 up to diameter 80 mm; Bore tolerance H7 from diameter 80 mm.

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.

To continue see next page

Steel Disc Couplings RINGFEDER® TND XSX

Shaft-Hub Connection by Shrink Discs RINGFEDER® RfN 4061



Shrink Discs RINGFEDER® RfN 4061						Sizing RINGFEDER® TND XSX														
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	mm	Nm	XSX	mm	mm	Nm	Nm	1/min	kg							
50	x	90	27,5	4	38	1350	82	116	55	750	1050	3600	2,3							
					40	1500														
					42	1700														
55	x	100	30,5	4	42	1300	82	116	55	750	1050	3600	2,4							
					45	1550														
					48	1800														
68	x	115	30,5	4	48	1700	82	116	55	750	1050	3600	2,8							
					55	2250														
					60	2850														
75	x	138	32,5	5,3	55	2650	98	140,5	60	1350	1750	3600	4,4							
					60	3300														
					65	4050														
80	x	145	32,5	5,3	60	3200	98	140,5	60	1350	1750	3600	4,6							
					70	4600														
					65	4800														
90	x	155	39	5,5	70	6050	118	166,5	75	2400	3000	3600	7,2							
					75	7300	141	198,5	90	4000	5200	3400	10,5							
					75	9100	169	238	125	6500	8500	3000	19							
115	x	185	56	6,4	90	12100	141	198,5	90	4000	5200	3400	12,6							
					95	14050								169	238	125	6500	8500	3000	20
					95	15100								169	238	125	6500	8500	3000	24,4
140	x	230	60,5	7,5	100	17550	205	295	160	21000	26000	2500	40							
					105	20000	254	345	200	36000	44000	2100	60							
					105	25000	205	295	160	21000	26000	2500	48,8							
165	x	290	71	10	120	35500	205	295	160	21000	26000	2500	48,8							
					125	39400								254	345	200	36000	44000	2100	69
					125	43500								205	295	160	21000	26000	2500	60,4
185	x	330	86,4	10	140	57350	205	295	160	21000	26000	2500	60,4							
					145	62400								254	345	200	36000	44000	2100	80
					145	69000								254	345	200	36000	44000	2100	77,7
200	x	350	86	10	155	81000	254	345	200	36000	44000	2100	77,7							
					160	87200														

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.

To continue see next page

Steel Disc Couplings RINGFEDER® TND XSX

Explanations

T_{KNHD} = Nom. transmissible torque with disc pack HD	L₂ = 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_{r,HD} = Max. permissible radial misalignment with disc pack HD
n_{max} = Max. rotational speed	n_{Sc} = Quantity of screws	ΔK_{r,HT} = Max. permissible radial misalignment with disc pack HT
d_{1min} = Min. bore diameter d ₁	GW_{sp} = Weight of spacer	
d_{2min} = Min. bore diameter d ₂	GW_{hs} = Weight of hub including shrink disc	
d_{1max} = Max. bore diameter d ₁	C_{TdynHD} = Dynamic torsional stiffness with disc pack HD	
d_{2max} = Max. bore diameter d ₂	C_{TdynHT} = Dynamic torsional stiffness with disc pack HT	
C₁ = Guided length in hub bore	ΔK_{a,HD} = Max. permissible axial misalignment with disc pack HD	Shrink Disc Selection
C₂ = Guided length in hub bore	ΔK_{a,HT} = Max. permissible axial misalignment with disc pack HT	d_{h8} = Inner diameter
E = Distance between hubs	ΔK_{w,HD} = Max. permissible angular misalignment with disc pack HD	D = Outer diameter
H₃ = Width of the disc pack		L₁ = Min. installation length (without screws)
D₁ = Max. outer diameter		L₈ = Overhang length
		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 XSX	98	HD	50	68 x 115	60	68 x 115

Further information on RINGFEDER® TND XSX on www.ringfeder.com

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 ≤ 3.2 μm.
- 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 are balanced without screwed-on disc pack.

Disclaimer of liability

All technical details and notes are non-binding and cannot be used as a basis for legal claims. The user is obligated to determine whether the represented products meet his requirements. We reserve the right to carry out modifications at any time in the interests of technical progress.