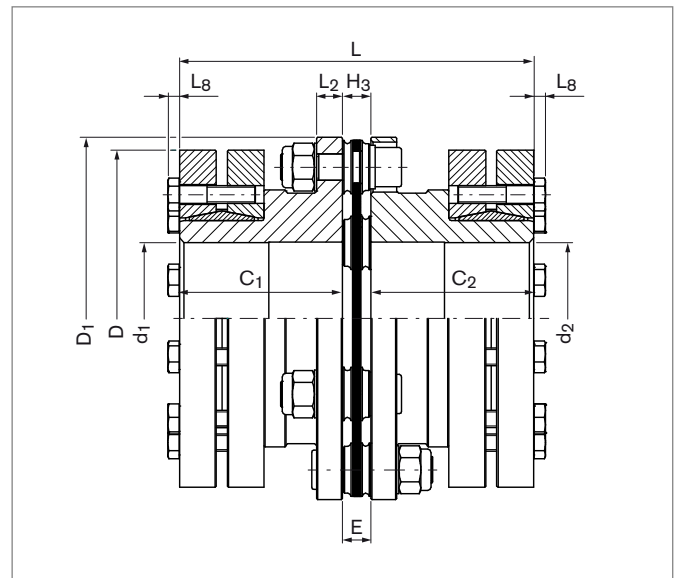


Steel Disc Couplings

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.

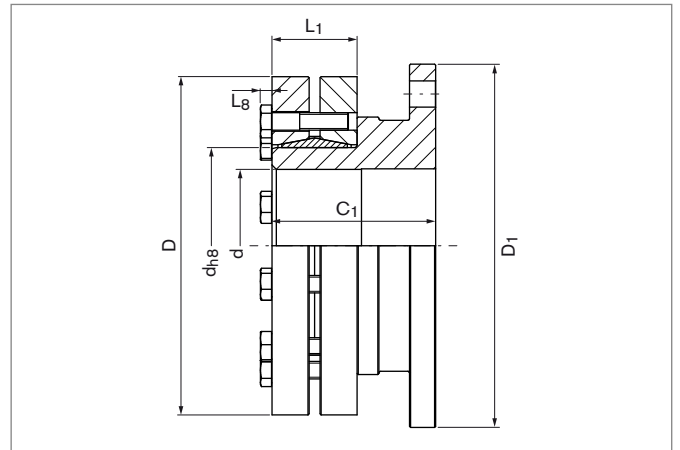
7) The maximum misalignment values must not apply simultaneously. The instructions on coupling dimensioning in the document "Product Paper & Tech Paper RINGFEDER® Steel Disc Couplings" are to be observed.

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

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	141	198,5	90	4000	5200	3400	10,5
					75	7300							
					169	238							
115	x	185	56	6,4	75	9100	141	198,5	90	4000	5200	3400	12,6
					95	14050							
					169	238							
140	x	230	60,5	7,5	95	15100	169	238	125	6500	8500	3000	24,4
					100	17550							
					205	295							
165	x	290	71	10	105	20000	254	345	200	36000	44000	2100	60
					105	25000							
					125	39400							
185	x	330	86,4	10	120	35500	205	295	160	21000	26000	2500	48,8
					125	43500							
					254	345							
200	x	350	86	10	145	62400	254	345	200	36000	44000	2100	77,7
					145	69000							
					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	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	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	
C_1 = Guided length in hub bore	ΔK_{aHD} = Max. permissible axial misalignment with disc pack HD	Shrink Disc Selection
C_2 = Guided length in hub bore	ΔK_{aHT} = Max. permissible axial misalignment with disc pack HT	d_{h8} = Inner diameter
E = Distance between hubs	ΔK_{wHD} = Max. permissible angular misalignment with disc pack HD	D = Outer diameter
H_3 = Width of the disc pack		L_1 = Min. installation length (without screws)
D_1 = Max. outer diameter		L_8 = 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 $R_a \leq 3.2 \mu m$.
- 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 are balanced without screwed-on disc pack.



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