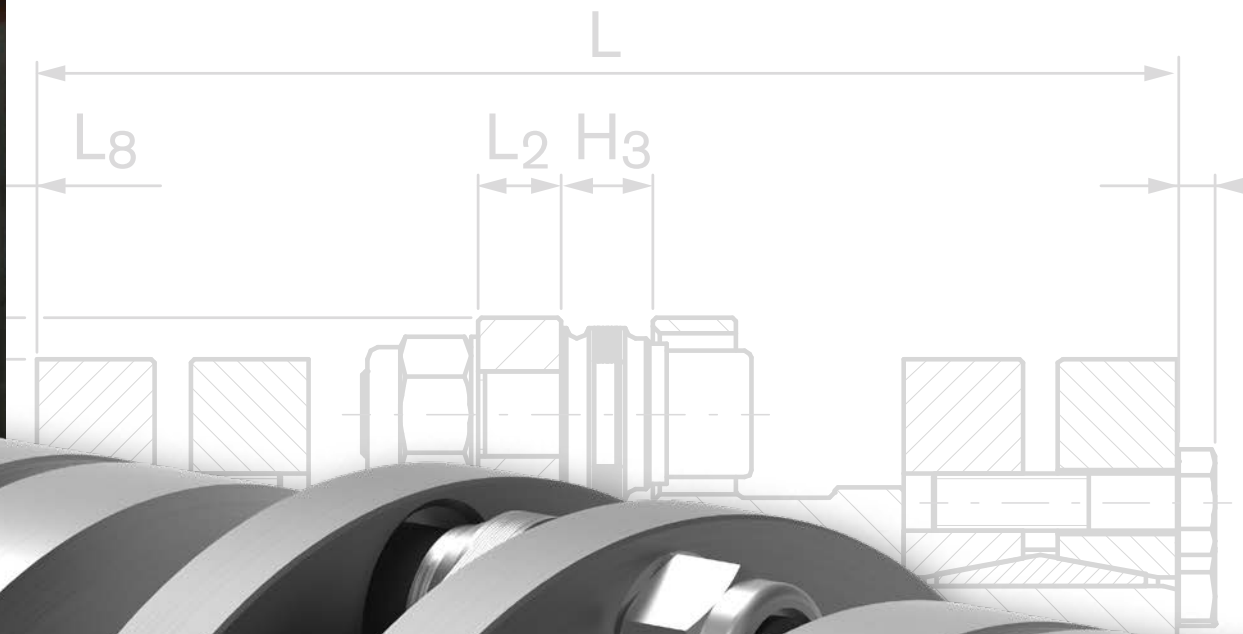


Steel Disc Couplings

RINGFEDER® TND

Tables & Values

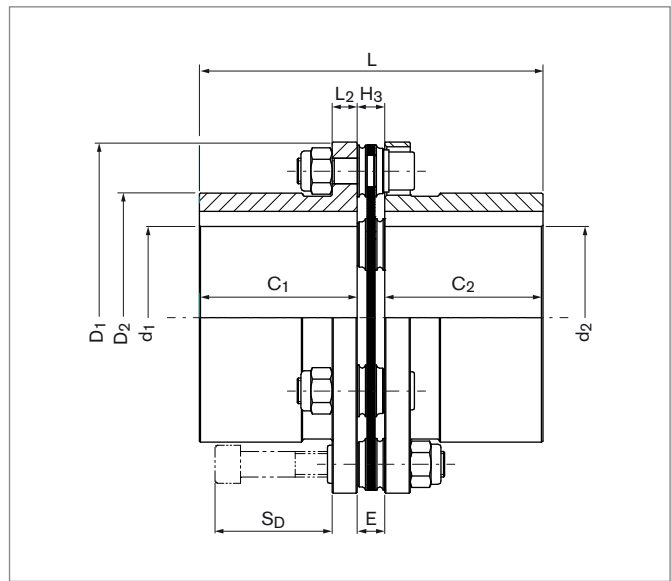
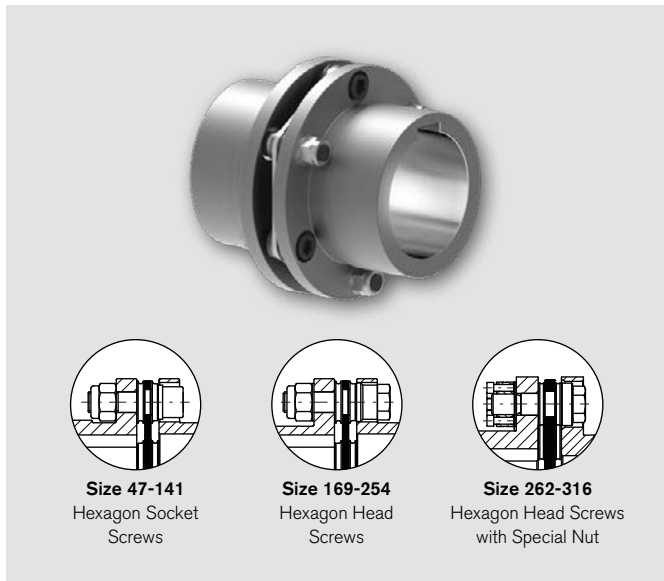
For the correct selection of a suitable coupling type and size, it is essential to observe the explanations in the chapter "Coupling Dimensioning".



Steel Disc Couplings

RINGFEDER® TND HSH

Standard Hubs, Single-Jointed, without Spacer,
Shaft-Hub Connection by Keyway



Size	T _{KNHD} ¹⁾	T _{KNHT} ¹⁾	n _{max}	d _{pre} ³⁾	d _{1k} ; d _{2k} max ⁴⁾	C ₁ / C ₂	E	H ₃	D ₁	D ₂	L ₂	L	S _D	n _{Sc}
HSH	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Quantity
47	170	230	12200	10	32	39,5	7,5	7,5	70,5	47	5	86,5	24	6
63	320	420	9900	14	42	45	9	9	88	62,5	8	99	32	6
82	750	1050	7500	15	55	55	10,5	10,5	116	82	10	120,5	40	6
98	1350	1750	6200	19	65	60	12	12	140,5	98	11	132	47	6
118	2400	3000	5250	25	85	75	13	13	166,5	118	12	163	55	6
141	4000	5200	4400	30	95	90	15	15	198,5	141	14	195	64	6
169	6500	8500	3650	39	115	125	21	21	238	169	16	271	81	6
205	21000	26000	2950	59	140	160	28	28	295	205	22	348	112	8
254	36000	44000	2500	79	175	200	32,5	32,5	345	254	26	432,5	133	8
262	74000	---	2050	90	180	210	34	34	420	262	32	454	137	8
316	130000	---	1700	100	215	240	47	47	510	316	38	527	172	8

To continue see next page

Steel Disc Couplings RINGFEDER® TND HSH

Size	G _{WSB} ⁶⁾	J _{SB} ⁶⁾	C _{TdynHD}	C _{TdynHT}	Max. Permissible Misalignment ⁷⁾					
					axial		angular		radial	
HSH	kg	10 ⁻³ kgm ²	10 ⁶ Nm/rad	10 ⁶ Nm/rad	ΔK _a HD	ΔK _a HT	ΔK _w HD	ΔK _w HT	ΔK _r HD	ΔK _r HT
					mm	mm	Degrees	Degrees	mm	mm
47	1,3	0,5	0,173	0,184	0,5	0,3	1	0,7	---	---
63	2,6	1,6	0,281	0,312	0,5	0,4	1	0,7	---	---
82	5,6	5,9	0,637	0,743	0,7	0,4	1	0,7	---	---
98	8,8	14	1,173	1,251	1	0,6	1	0,7	---	---
118	15,4	35	2	2,082	1,2	0,8	1	0,7	---	---
141	25,9	84	2,992	3,142	1,4	0,8	1	0,7	---	---
169	50	230	5,269	6,586	1,5	1,2	1	0,7	---	---
205	97,8	700	21,848	22,285	1,1	0,6	0,5	0,4	---	---
254	171,2	1750	37,204	37,868	1,1	0,8	0,5	0,4	---	---
262	223,2	3260	46,192	---	1,6	---	0,5	---	---	---
316	384,4	8650	87,706	---	1,8	---	0,5	---	---	---

1) When selecting the 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}.

3) Pre-bore has free tolerance.

4) Maximum finished bore with keyways according to DIN 6885-1.

6) Weight and mass moments of inertia for pre-bored hubs.

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.

Explanations

T_{KNHD} = Nom. transmissible torque with disc pack HD	D₁ = Max. outer diameter	ΔK_aHD = Max. permissible axial misalignment with disc pack HD
T_{KNHT} = Nom. transmissible torque with disc pack HT	D₂ = Outer diameter hub	ΔK_aHT = Max. permissible axial misalignment with disc pack HT
n_{max} = Max. rotational speed	L₂ = Hub flange thickness	ΔK_wHD = Max. permissible angular misalignment with disc pack HD
d_{pre} = Diameter pre-bore	L = Total length	ΔK_wHT = Max. permissible angular misalignment with disc pack HT
d_{1kmax} = Max. bore diameter d ₁ with keyway acc. to DIN 6885-1	S_D = Disassembly space	ΔK_rHD = Max. permissible radial misalignment with disc pack HD
d_{2kmax} = Max. bore diameter d ₂ with keyway acc. to DIN 6885-1	n_{sc} = Quantity of screws	ΔK_rHT = Max. permissible radial misalignment with disc pack HT
C₁ = Guided length in hub bore	G_{WSB} = Weight at smallest bore diameter	
C₂ = Guided length in hub bore	J_{SB} = Moment of inertia at smallest bore diameter.	
E = Distance between hubs	C_{TdynHD} = Dynamic torsional stiffness with disc pack HD	
H₃ = Width of the disc pack	C_{TdynHT} = Dynamic torsional stiffness with disc pack HT	

Ordering example

Type	Size	Disc pack	Bore diameter d ₁	Bore diameter d ₂
TND HSH	118	HD	60	80

Technical Information

- Without further specifications, we deliver as standard: Bore tolerance H7; Keyway acc. to DIN 6885-1; Keyway width tolerance P9; Set screw per hub.
- 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 half key (before grooving).

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

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