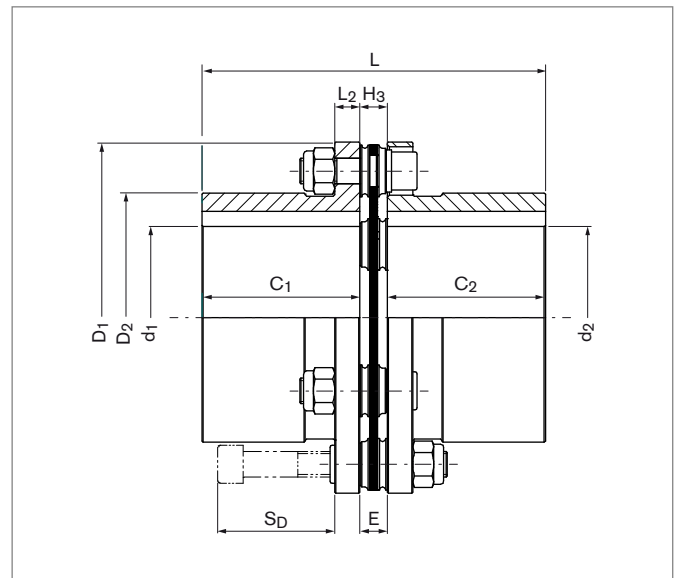
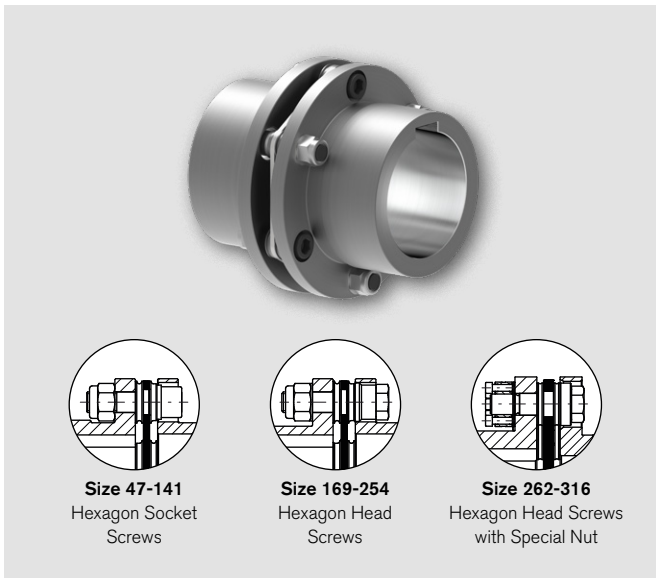


# Steel Disc Couplings

## RINGFEDER® TND HSH

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



Size	T <sub>KNHD</sub> <sup>1)</sup>	T <sub>KNHT</sub> <sup>1)</sup>	n <sub>max</sub>	d <sub>pre</sub> <sup>3)</sup>	d <sub>1k;d2k</sub> max <sup>4)</sup>	C <sub>1</sub> / C <sub>2</sub>	E	H <sub>3</sub>	D <sub>1</sub>	D <sub>2</sub>	L <sub>2</sub>	L	S <sub>D</sub>	n <sub>sc</sub>
<b>HSH</b>	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Quantity
47	170	230	8400	10	32	39,5	7,5	7,5	70,5	47	5	86,5	24	6
63	320	420	6800	14	42	45	9	9	88	62,5	8	99	32	6
82	750	1050	5400	15	55	55	10,5	10,5	116	82	10	120,5	40	6
98	1350	1750	4600	19	65	60	12	12	140,5	98	11	132	47	6
118	2400	3000	3800	25	85	75	13	13	166,5	118	12	163	55	6
141	4000	5200	3400	30	95	90	15	15	198,5	141	14	195	64	6
169	6500	8500	3000	39	115	125	21	21	238	169	16	271	81	6
205	21000	26000	2500	59	140	160	28	28	295	205	22	348	112	8
254	36000	44000	2100	79	175	200	32,5	32,5	345	254	26	432,5	133	8
262	74000	---	1800	90	180	210	34	34	420	262	32	454	137	8
316	130000	---	1500	100	215	240	47	47	510	316	38	527	172	8

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Size	G <sub>WSB</sub> <sup>6)</sup>	J <sub>SB</sub> <sup>6)</sup>	C <sub>TdynHD</sub>	C <sub>TdynHT</sub>	Max. Permissible Misalignment <sup>7)</sup>					
					axial		angular		radial	
HSH	kg	10 <sup>-3</sup> kgm <sup>2</sup>	10 <sup>6</sup> Nm/rad	10 <sup>6</sup> Nm/rad	ΔK <sub>a</sub> HD	ΔK <sub>a</sub> HT	ΔK <sub>w</sub> HD	ΔK <sub>w</sub> HT	ΔK <sub>r</sub> HD	ΔK <sub>r</sub> 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<sub>Kmax</sub> is limited to 1.75 multiples of T<sub>KN</sub>.

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

<b>T<sub>KNHD</sub></b> = Nom. transmissible torque with disc pack HD	<b>D<sub>1</sub></b> = Max. outer diameter	<b>ΔK<sub>a</sub>HD</b> = Max. permissible axial misalignment with disc pack HD
<b>T<sub>KNHT</sub></b> = Nom. transmissible torque with disc pack HT	<b>D<sub>2</sub></b> = Outer diameter hub	<b>ΔK<sub>a</sub>HT</b> = Max. permissible axial misalignment with disc pack HT
<b>n<sub>max</sub></b> = Max. rotational speed	<b>L<sub>2</sub></b> = Hub flange thickness	<b>ΔK<sub>w</sub>HD</b> = Max. permissible angular misalignment with disc pack HD
<b>d<sub>pre</sub></b> = Diameter pre-bore	<b>L</b> = Total length	<b>ΔK<sub>w</sub>HT</b> = Max. permissible angular misalignment with disc pack HT
<b>d<sub>1kmax</sub></b> = Max. bore diameter d <sub>1</sub> with keyway acc. to DIN 6885-1	<b>S<sub>D</sub></b> = Disassembly space	<b>ΔK<sub>r</sub>HD</b> = Max. permissible radial misalignment with disc pack HD
<b>d<sub>2kmax</sub></b> = Max. bore diameter d <sub>2</sub> with keyway acc. to DIN 6885-1	<b>n<sub>Sc</sub></b> = Quantity of screws	<b>ΔK<sub>r</sub>HT</b> = Max. permissible radial misalignment with disc pack HT
<b>C<sub>1</sub></b> = Guided length in hub bore	<b>G<sub>WSB</sub></b> = Weight at smallest bore diameter	
<b>C<sub>2</sub></b> = Guided length in hub bore	<b>J<sub>SB</sub></b> = Moment of inertia at smallest bore diameter.	
<b>E</b> = Distance between hubs	<b>C<sub>TdynHD</sub></b> = Dynamic torsional stiffness with disc pack HD	
<b>H<sub>3</sub></b> = Width of the disc pack	<b>C<sub>TdynHT</sub></b> = Dynamic torsional stiffness with disc pack HT	

## Ordering example

Type	Size	Disc pack	Bore diameter d <sub>1</sub>	Bore diameter d <sub>2</sub>
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](http://www.ringfeder.com)

### Disclaimer of liability

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