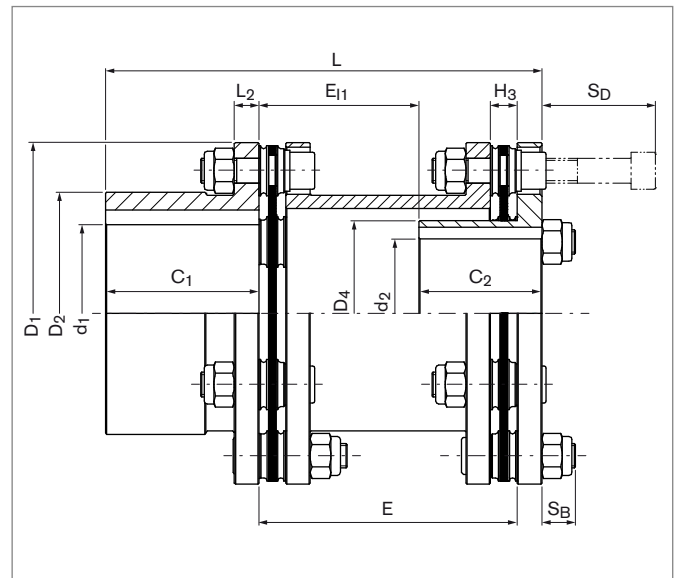
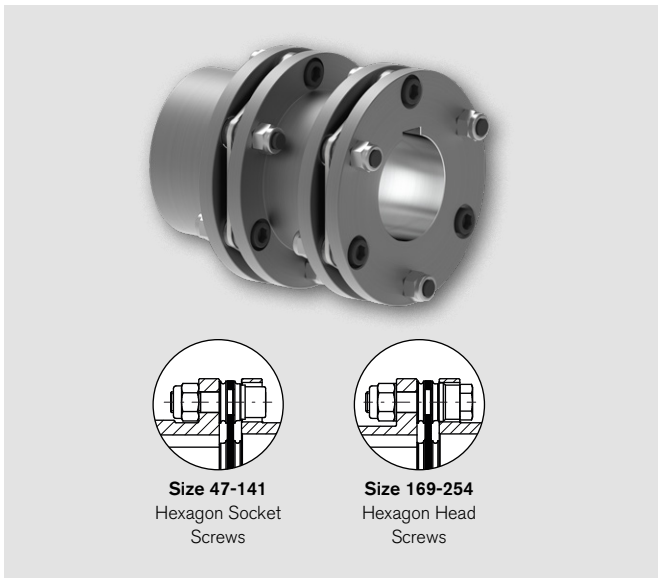


# Steel Disc Couplings

## RINGFEDER® TND HDV

Combination of Standard Hub and Inverted Hub, Double-Jointed, with 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> <sup>2)</sup>	d <sub>pre</sub> <sup>3)</sup>	d <sub>1kmax</sub> <sup>4)</sup>	d <sub>2kmax</sub> <sup>4)</sup>	C <sub>1</sub> /C <sub>2</sub>	E <sub>1</sub>	E <sup>5)</sup>	H <sub>3</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>4</sub>	L <sub>2</sub>	L	S <sub>B</sub>	S <sub>D</sub>	n <sub>Sc</sub>
HDV	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Quantity
47	170	230	12200	10	32	25	39,5	25,5	60	7,5	70,5	47	37	5	105	7	24	6
								65,5	100						185			
								105,5	140									
63	320	420	9900	14	42	32	45	33	70	9	88	62,5	48	8	123	9	32	6
								43	80						133			
								63	100						153			
								103	140						193			
82	750	1050	7500	15	55	44	55	55	100	10,5	116	82	64	10	165	11	40	6
								95	140						205			
								135	180						245			
98	1350	1750	6200	19	65	50	60	51	100	12	140,5	98	77	11	171	15	47	6
								91	140						211			
								131	180						251			
118	2400	3000	5250	25	85	60	75	37	100	13	166,5	118	90,5	12	187	17	55	6
								77	140						227			
								117	180						267			
141	4000	5200	4400	30	95	75	90	64	140	15	198,5	141	114	14	244	18	64	6
								104	180						284			
								31	140						281			
169	6500	8500	3650	39	115	90	125	71	180	21	238	169	135	16	321	24	81	6
								141	250						391			

To continue see next page

### Steel Disc Couplings RINGFEDER® TND HDV

Size	T <sub>KN</sub> HD <sup>1)</sup>	T <sub>KN</sub> HT <sup>1)</sup>	n <sub>max</sub> <sup>2)</sup>	d <sub>pre</sub> <sup>3)</sup>	d <sub>1kmax</sub> <sup>4)</sup>	d <sub>2kmax</sub> <sup>4)</sup>	C <sub>1</sub> /C <sub>2</sub>	E <sub>I1</sub>	E <sup>5)</sup>	H <sub>3</sub>	D <sub>1</sub>	D <sub>2</sub>	D <sub>4</sub>	L <sub>2</sub>	L	S <sub>B</sub>	S <sub>D</sub>	n <sub>Sc</sub>
HDV	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Quantity
205	21000	26000	2950	59	140	115	160	62 112	200 250	28	295	205	170	22	382 432	27	112	8
254	36000	44000	2500	79	175	120	200	50 76 126	224 250 300	32,5	345	254	180	26	450 476 526	29	133	8

Size	E <sup>5)</sup>	G <sub>WSB</sub> <sup>6)</sup>	J <sub>SB</sub> <sup>6)</sup>	C <sub>Tdyn</sub> HD	C <sub>Tdyn</sub> HT	Max. Permissible Misalignment <sup>7)</sup>					
						axial		angular		radial	
HDV	mm	kg	10 <sup>-9</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	60	1,4	0,69	0,071	0,075					0,8	0,6
	100	1,6	0,75	0,059	0,062	1,0	0,6	2	1,4	1,5	1,1
	140	1,7	0,8	0,051	0,053					2,2	1,5
63	70	2,9	2,33	0,123	0,134					1	0,7
	80	2,9	2,37	0,123	0,134					1,1	0,8
	100	3	2,46	0,116	0,127	1,0	0,8	2	1,4	1,5	1,1
	140	3,2	2,63	0,105	0,114					2,1	1,6
82	100	5,4	8,83	0,271	0,308					1,4	1,1
	140	6,7	9,23	0,246	0,277	1,4	0,8	2	1,4	2,1	1,5
	180	7	9,65	0,226	0,251					2,8	2,1
98	100	9,9	20,35	0,513	0,543					1,5	1
	140	10,4	21,21	0,469	0,494	2,0	1,2	2	1,4	2,1	1,5
	180	10,8	22,07	0,433	0,454					2,8	2
118	100	16	46,28	0,914	0,948					1,4	1
	140	16,7	48,34	0,855	0,884	2,4	1,6	2	1,4	2,1	1,5
	180	17,3	50,39	0,803	0,829					2,8	2
141	140	26,4	98,01	1,306	1,362	2,8	1,6	2	1,4	2	1,5
	180	28,5	105,33	1,229	1,279					2,7	2
169	140	50,7	289,79	2,467	3,035					2	1,4
	180	52,3	299,74	2,375	2,898	3	2,4	2	1,4	2,6	1,9
	250	55	317,15	2,231	2,686					3,8	2,7
205	200	105	951,03	8,995	9,142	2,2	1,2	1	0,8	1,4	1,2
	250	107,8	975,71	8,265	8,389					1,8	1,5
254	224	169,2	2131,73	14,975	15,19					1,6	1,3
	250	171,2	2152,56	14,302	14,497	2,2	1,6	1	0,8	1,8	1,5
	300	175	2192,61	13,163	13,328					2,2	1,8

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>.  
 2) For longer spacers, check bending critical rotational speed.  
 3) Pre-bore has free tolerance.  
 4) Maximum finished bore with keyways according to DIN 6885-1.

5) Longer spacers on request.  
 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.

To continue see next page

## Steel Disc Couplings RINGFEDER® TND HDV

### Explanations

<b>T<sub>KNHD</sub></b> = Nom. transmissible torque with disc pack HD	<b>H<sub>3</sub></b> = Width of the disc pack	<b>C<sub>TdynHD</sub></b> = Dynamic torsional stiffness with disc pack HD
<b>T<sub>KNHT</sub></b> = Nom. transmissible torque with disc pack HT	<b>D<sub>1</sub></b> = Max. outer diameter	<b>C<sub>TdynHT</sub></b> = Dynamic torsional stiffness with disc pack HT
<b>n<sub>max</sub></b> = Max. rotational speed	<b>D<sub>2</sub></b> = Outer diameter hub	<b>ΔK<sub>aHD</sub></b> = Max. permissible axial misalignment with disc pack HD
<b>d<sub>pre</sub></b> = Diameter pre-bore	<b>D<sub>4</sub></b> = Outer diameter of the inverted hub	<b>ΔK<sub>aHT</sub></b> = Max. permissible axial 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>L<sub>2</sub></b> = Hub flange thickness	<b>ΔK<sub>wHD</sub></b> = Max. permissible angular 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>L</b> = Total length	<b>ΔK<sub>wHT</sub></b> = Max. permissible angular misalignment with disc pack HT
<b>C<sub>1</sub></b> = Guided length in hub bore	<b>S<sub>B</sub></b> = Protruding of the screw	<b>ΔK<sub>rHD</sub></b> = Max. permissible radial misalignment with disc pack HD
<b>C<sub>2</sub></b> = Guided length in hub bore	<b>S<sub>D</sub></b> = Disassembly space	<b>ΔK<sub>rHT</sub></b> = Max. permissible radial misalignment with disc pack HT
<b>E<sub>11</sub></b> = Distance between hubs	<b>n<sub>sc</sub></b> = Quantity of screws	
<b>E</b> = Distance between hubs	<b>G<sub>WSB</sub></b> = Weight at smallest bore diameter	
	<b>J<sub>SB</sub></b> = Moment of inertia at smallest bore diameter	

### Ordering example

Type	Size	Disc pack	Distance between hubs E	Bore diameter d <sub>1</sub>	Bore diameter d <sub>2</sub>
TND HDV	118	HD	140	85	60

Further information on  
RINGFEDER® TND HDV

#### 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), the spacer without screwed-on disc packs.

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