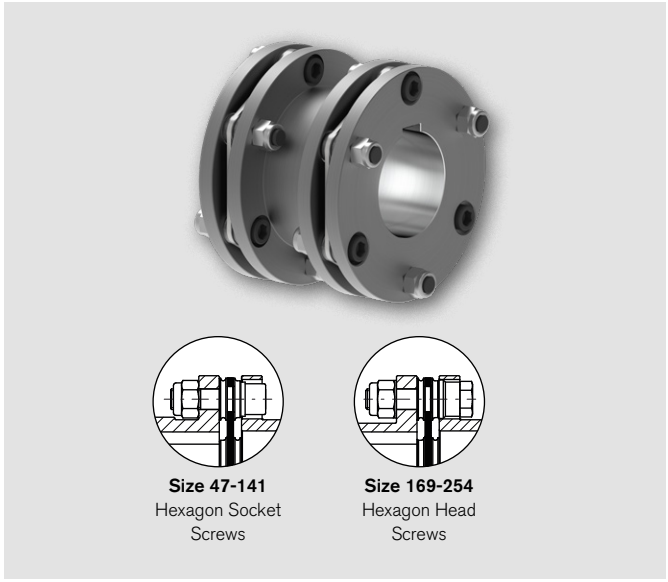
Steel Disc Couplings

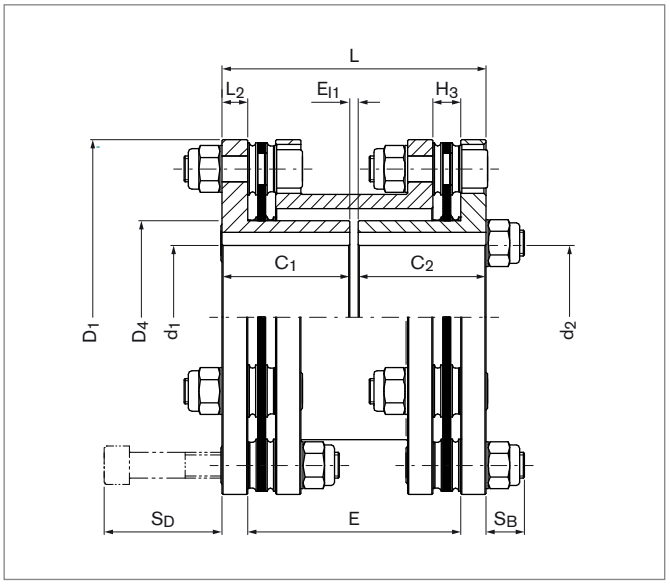
RINGFEDER® TND VDV

Inverted Hubs, Double-Jointed, with Spacer, Shaft-Hub Connection by Keyway



Size 47-141
Hexagon Socket Screws

Size 169-254
Hexagon Head Screws



Size	$T_{KN}HD$ [1]	$T_{KN}HT$ [1]	n_{max} [2]	d_{pre} [3]	$d_{1k};d_{2k}$ max [4]	C_1 / C_2	E_{I1}	E [5]	H_3	D_1	D_4	L_2	L	S_B	S_D	n_{Sc}
VDV	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Quantity
47	170	230	12200	10	25	33 39,5	4 31	60 100	7,5	70,5	37	5	70 110	7	24	6
63	320	420	9900	14	32	41 45	4 6	70 80	9	88	48	8	86 96	9	32	6
82	750	1050	7500	15	44	55 55	10 50	100 140	10,5	116	64	10	120 160	11	40	6
98	1350	1750	6200	19	50	59 60	4 42	100 140	12	140,5	77	11	122 162	15	47	6
118	2400	3000	5250	25	60	60 75	4 14	100 140	13	166,5	90,5	12	124 164	17	55	6
141	4000	5200	4400	30	75	81 90	6 28	140 180	15	198,5	114	14	168 208	18	64	6
169	6500	8500	3650	39	90	103 125	6 32	180 250	21	238	135	16	212 282	24	81	6
205	21000	26000	2950	59	115	142	10	250	28	295	170	22	294	27	112	8
254	36000	44000	2500	79	120	146 171	10 10	250 300	32,5	345	180	26	302 352	29	133	8

To continue see next page

Steel Disc Couplings RINGFEDER® TND VDV

Size	E [5]	Gw_{SB} [6]	J_{SB} [6]	C_{TdynHD}	C_{TdynHT}	Max. Permissible Misalignment [7]					
						axial		angular		radial	
						ΔK_aHD	ΔK_aHT	ΔK_wHD	ΔK_wHT	ΔK_rHD	ΔK_rHT
VDV	mm	kg	$10^{-3}kgm^2$	10^6 Nm/rad	10^6 Nm/rad	mm	mm	Degrees	Degrees	mm	mm
47	60	1,2	0,6	0,071	0,075	1	0,6	2	1,4	0,8	0,6
	100	1,4	0,66	0,059	0,062					1,5	1,1
63	70	2,4	2,04	0,126	0,139	1	0,8	2	1,4	1	0,7
	80	2,5	2,08	0,126	0,139					1,1	0,8
82	100	5,7	7,90	0,271	0,308	1,4	0,8	2	1,4	1,4	1,1
	140	6	8,32	0,246	0,277					2,1	1,5
98	100	8,8	18,36	0,513	0,543	2	1,2	2	1,4	1,5	1
	140	9,2	19,22	0,469	0,494					2,1	1,5
118	100	13,1	39,38	0,914	0,948	2,4	1,6	2	1,4	1,4	1
	140	13,8	41,44	0,855	0,884					2,1	1,5
141	140	22,6	100,41	1,306	1,362	2,8	1,6	2	1,4	2	1,5
	180	24,7	105,33	1,229	1,279					2,7	2
169	180	43,5	256,20	2,375	2,898	3	2,4	2	1,4	2,6	1,9
	250	46,2	273,61	2,231	2,686					3,8	2,7
205	250	93,4	862,77	8,265	8,389	2,2	1,2	1	0,8	1,8	1,5
254	250	132,8	1734,93	14,302	14,497	2,2	1,6	1	0,8	1,8	1,5
	300	136,6	1774,98	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_{kmax} is limited to 1.75 multiples of T_{KN}.

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 VDV

Explanations

$T_{KN}HD$ = Nom. transmissible torque with disc pack HD

$T_{KN}HT$ = Nom. transmissible torque with disc pack HT

n_{max} = Max. rotational speed

d_{pre} = Diamater pre-bore

d_{1kmax} = Max. bore diameter d_1 with keyway acc. to DIN 6885-1

d_{2kmax} = Max. bore diameter d_2 with keyway acc. to DIN 6885-1

C_1 = Guided length in hub bore

C_2 = Guided length in hub bore

E_{l1} = Distance between hubs

E = Distance between hubs

H_3 = Width of the disc pack

D_1 = Max. outer diameter

D_4 = Outer diameter of the inverted hub

L_2 = Hub flange thickness

L = Total length

S_B = Protruding of the screw

S_D = Disassembly space

n_{Sc} = Quantity of screws

Gw_{SB} = Weight at smallest bore diameter

J_{SB} = Moment of inertia at smallest bore diameter

$C_{Tdyn}HD$ = Dynamic torsional stiffness with disc pack HD

$C_{Tdyn}HT$ = Dynamic torsional stiffness with disc pack HT

ΔK_aHD = Max. permissible axial misalignment with disc pack HD

ΔK_aHT = Max. permissible axial misalignment with disc pack HT

ΔK_wHD = Max. permissible angular misalignment with disc pack HD

ΔK_wHT = Max. permissible angular misalignment with disc pack HT

ΔK_rHD = Max. permissible radial misalignment with disc pack HD

ΔK_rHT = Max. permissible radial misalignment with disc pack HT

Ordering example

Type	Size	Disc pack	Distance between hubs E	Bore diameter d_1	Bore diameter d_2
TND VDV	118	HD	140	60	60

Further information on
RINGFEDER® TND VDV
on **www.ringfeder.com**

Technical Information

- Without further specifications, we deliver as standard: Bore tolerance H7; Keyway acc. to DIN 6885-1; Keyway width tolerance P9.
- 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.

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.

RINGFEDER POWER TRANSMISSION