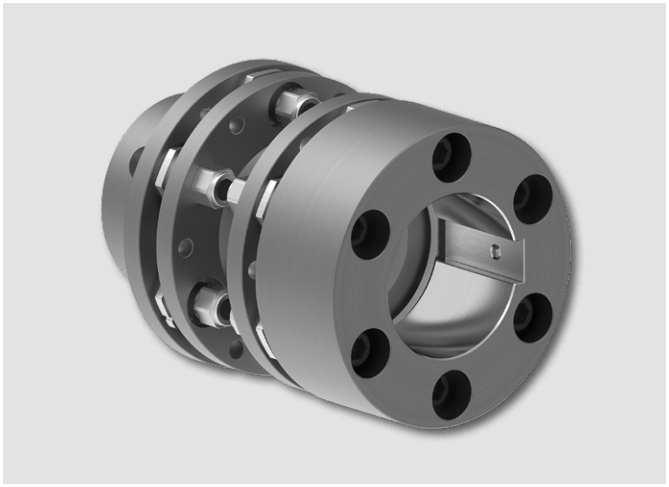
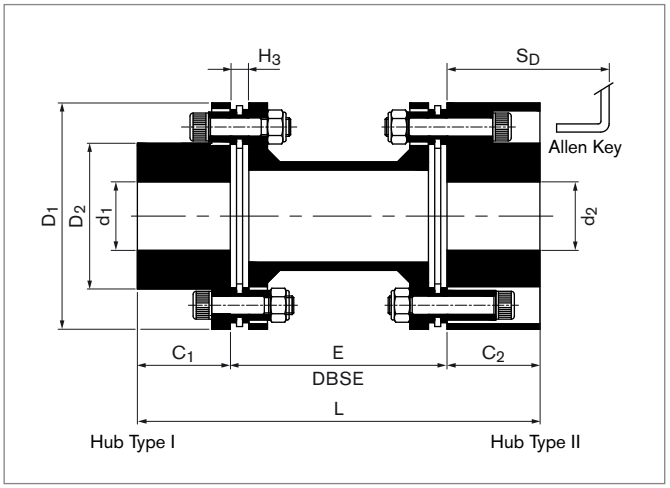
Steel Disc Couplings
RINGFEDER® RLDS BSB & BWB

Standard Design with Straight Bores and Keyways, Either Double-Jointed with Spacer (Type BSB) or Single-Jointed without Spacer (Type BWB)

RLDS BSB: Double-Jointed with Spacer





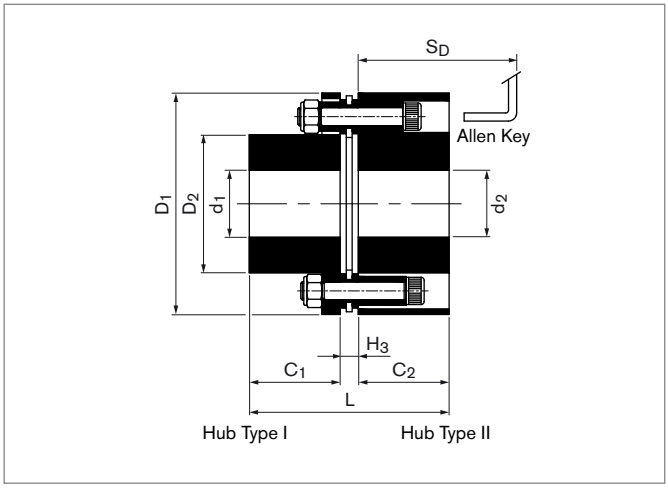
Size	T_{KN}	T_{Kmax}	n_{max}	Bore Diameter			D_1	D_2	C_1/C_2	Min. E	Std. E	L	H_3	S_D	Gw		J		C_{Tdyn}	Max. Misalignment		
				Min. d_1/d_2	Max. d_1	Max. d_2									Min. E	Per Meter Extra E	Min. E	Per Meter Extra E		ΔK_a	ΔK_w	ΔK_r
BSB	Nm	Nm	1/min	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg·m²	kg·m²	MNm/rad	mm	degrees	mm/mm E
10	95	190	7500	10	22	25	63	35	30	54	100, 140	160, 200	6.5	75	1.2	1.2	0.001	0.001	0.021	±2	1.5°	0.013
35	229	458	7000	12	30	38	82	45	40	54	100, 140, 180	180, 220, 260	6.5	85	2.0	2.6	0.002	0.001	0.047			
95	621	1242	6000	17	40	50	102	57	45	66		190, 230, 270	8	95	3.8	6.9	0.006	0.002	0.100			
170	1203	2406	5200	17	52	70	128	77	55	78		210, 250, 290	9.5	110	7.0	6.3	0.017	0.004	0.222			
220	1910	3820	4800	22	65	80	146	94	60	88		220, 260, 300	12	120	9.8	9.0	0.033	0.009	0.381			
400	3466	6932	4400	27	80	100	176	115	70	102	140, 180	280, 320	13	140	16.8	13.3	0.079	0.021	0.773			
520	5586	11172	4200	32	90	115	197	132	90	114	140, 180, 250	320, 360, 430	14.4	175	26.5	12.5	0.160	0.032	0.962	±4		
1000	7086	14172	4000	42	105	130	225	147	95	132		330, 370, 440	16.2	185	35.4	25.3	0.286	0.065	1.529			
1300	10380	20760	3800	47	115	140	250	162	105	144	180, 250, 300	390, 460, 510	19.5	195	53.8	25.0	0.501	0.062	1.892			
2000	14534	29068	3700	52	120	155	275	178	115	168		410, 480, 530	21.5	215	72.7	26.7	0.814	0.104	2.454			
2500	18717	37434	3600	62	135	165	300	190	130	170		440, 510, 560	23.5	235	94.5	36.6	1.279	0.143	3.783			

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Steel Disc Couplings RINGFEDER® RLDS BSB & BWB

RLDS BWB: Single-Jointed without Spacer





Size	T_{KN}	T_{kmax}	n_{max}	Bore Diameter			D_1	D_2	C_1/C_2	L	H_3	S_D	Gw	J	C_{Tdyn}	Max. Misalignment	
				Min.	Max.											ΔK_a	ΔK_w
BWB	Nm	Nm	1/min	d_1/d_2	d_1	d_2	mm	mm	mm	mm	mm	mm	kg	kg·m²	MNm/rad	mm	degrees
10	95	190	7500	10	22	25	63	35	30	66.5	6.5	75	0.9	0.00047	0.041		
35	229	458	7000	12	30	38	82	45	40	86.5	6.5	85	1.8	0.0017	0.093		
95	621	1242	6000	17	40	50	102	57	45	98	8	95	3.2	0.0082	0.248	±1	
170	1203	2406	5200	17	52	70	128	77	55	119.5	9.5	110	5.8	0.0143	0.529		
220	1910	3820	4800	22	65	80	146	94	60	132	12	120	8.5	0.0263	0.895		
400	3466	6932	4400	27	80	100	176	115	70	153	13	140	14.0	0.0640	1.665		0.75°
520	5586	11172	4200	32	90	115	197	132	90	194.5	14.4	175	22.2	0.1320	2.393		
1000	7086	14172	4000	42	105	130	225	147	95	206.1	16.2	185	30.5	0.2311	3.490		
1300	10380	20760	3800	47	115	140	250	162	105	229.4	19.5	195	42.7	0.3945		±2	
2000	14534	29068	3700	52	120	155	275	178	115	251.5	21.5	215	57.3	0.6350	On Request		
2500	18717	37434	3600	62	135	165	300	190	130	283.6	23.5	235	76.1	1.0050			

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Steel Disc Couplings RINGFEDER® RLDS BSB & BWB

Explanations

T_{KN}	= Nom. Transmissible Torque	**Min. E**	= Min. Distance Between Shaft Ends	C_{Tdyn}	= Approx. Torsional Stiffness
T_{kmax}	= Short-Term Peak Torque	**Std. E**	= Std. Distance Between Shaft Ends	ΔK_a	= Max. Permissible Axial Misalignment
n_{max}	= Max. Rotational Speed	**L**	= Total Length	ΔK_w	= Max. Permissible Angular Misalignment
d_1/d_2	= Bore Diameter Hub Type I / Hub Type II	H_3	= Width of Disc Pack	ΔK_r	= Max. Permissible Radial Misalignment
D_1	= Max. Outer Diameter	S_D	= Disassembly Space		
D_2	= Outer Diameter Hubs	**Gw**	= Approx. Weight		
C_1/C_2	= Guided Length in Bore Hub Type I / Hub Type II	**J**	= Approx. Moment of Inertia		

Technical Information

- All dimensions are in millimeters, unless otherwise specified. Decimal points are used as decimal separators.
- Weight Gw, Moment of Inertia J and Torsional Stiffness C_{Tdyn} are given at maximum bore diameter with minimum standard E (DBSE) and with hub combination Type I / Type II.
- The values given for max. permissible axial, angular and radial shaft misalignment may not occur simultaneously. For further information, please refer to the related instruction manual. For type BWB, max. permissible radial misalignment is zero.
- Dimension S_D is applicable for hubs of Type II only.
- Without further instructions on balancing, the coupling parts are balanced individually according to DIN 21940-11 in quality G 6,3 at 1500 1/min. The hubs are balanced half key (before grooving), the spacer without screwed-on disc packs.
- From a peripheral speed of 30 m/s, separate balancing of the individual coupling parts is recommended.
- Couplings with non-standard E (DBSE) available on request.
- For vertical installation, please contact RINGFEDER POWER TRANSMISSION.
- Couplings with sizes higher than 2500 available on request.
- Couplings for ATEX applications available on request.

Ordering example RLDS BSB

Series	Type	Hub Types	Size	Distance Between Shaft Ends E	Bore Diameter d_1	Bore Diameter d_2
RLDS	BSB	Type I / Type II	400	140	75	95

Ordering example RLDS BWB

Series	Type	Hub Types	Size	Bore Diameter d_1	Bore Diameter d_2
RLDS	BWB	Type I / Type II	170	52	70

Ordering Information

- Please specify the hub types required for your application (Type I / Type I, Type I / Type II, Type II / Type II).
- For type BWB, only hub combinations Type I / Type I and Type I / Type II are available.
- Without further specifications, we deliver as standard: Bore tolerance H7; Keyway acc. to DIN 6885-1; Keyway width tolerance JS9; Set screw per hub. For bores complying with AGMA or other specifications, please contact RINGFEDER POWER TRANSMISSION.

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