

Disc Couplings RDL ... DSZ

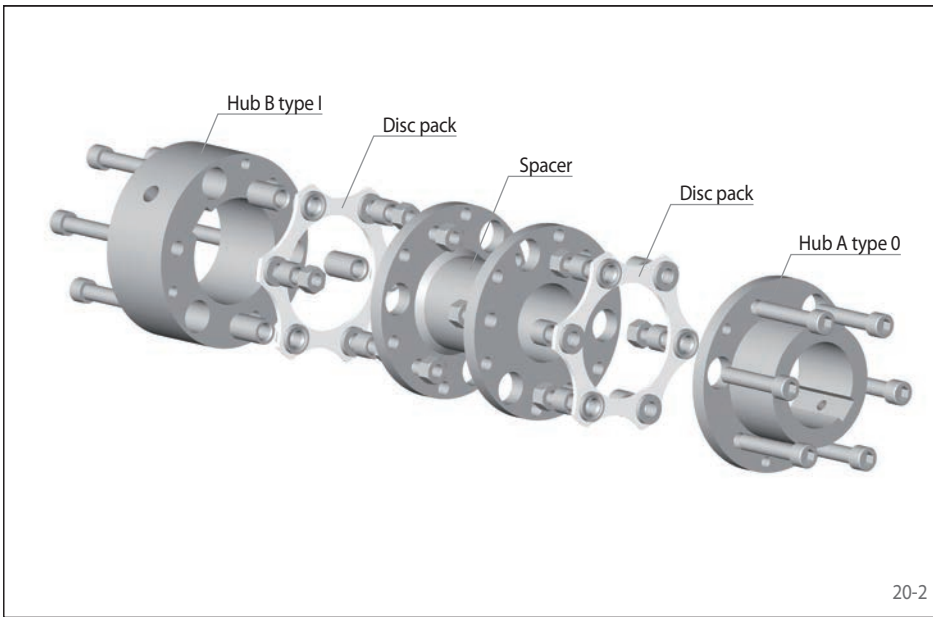
torsionally rigid
double disc packs with spacer



20-1

Features

- Nominal torques up to 18700 Nm
- Combines high torque capacity with low weight
- Backlash free
- Compensation of axial, radial and angular misalignments
- Double disc pack allows smooth torque transmission
- High torsional rigidity with low axial rigidity
- Temperature range -20 °C to +280 °C
- Maintenance free and long life with proper alignment
- Typical application: Pumps, fans, packaging machines, paper machines, printing machines, mixers, dynamometers

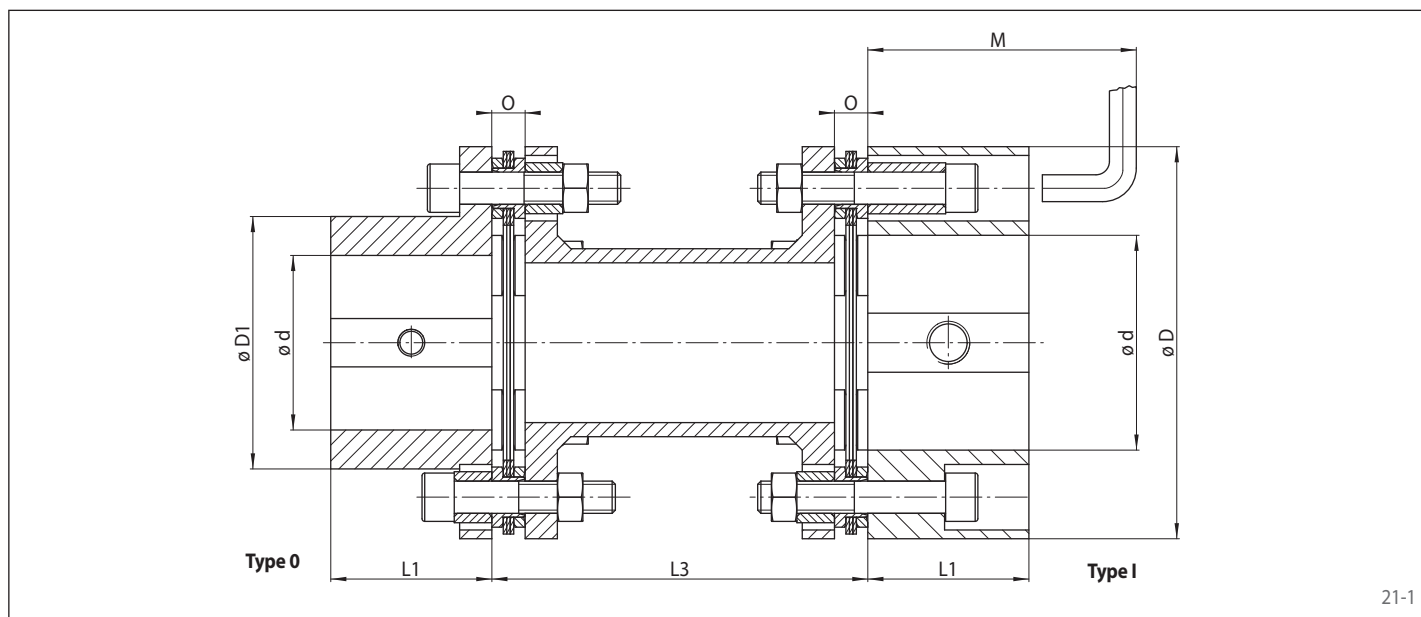


20-2

Order example

Order example	Code
Coupling design	RDL
Coupling size	0024
Type	DSZ
Material of the hub: • Steel	STA
Hub A, type: • 0, standard • I, increased max. bore	0 1
Hub A, design: • finish bored with keyway • roughbored	FB VA
Bore diameter hub A	020
Hub B, type: • 0, standard • I, increased max. bore	0 1
Hub B, design: • finish bored with keyway • roughbored	FB VA
Bore diameter hub B	022
DBSE L3	0100
↓	
RDL 0024 DSZ-STA-0FB020-1FB022-0000-0100	

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21-1

Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. speed n_{max} min^{-1}	Torsional stiffness C_T MNm/rad	Moment of inertia J_k with DBSE L3		Permissible misalignments		
					with shortest standard kgm ²	per additional meter to the standard kgm ²	Axial mm	Radial mm	Angular °
0024	96	1,0	7500	0,021	0,0006	0,0004	±1	0,013	1,5
0038	232	2,4	7000	0,047	0,0021	0,0011			
0048	620	6,5	6000	0,100	0,0062	0,0017			
0065	1200	12,6	5200	0,222	0,0180	0,0047			
0075	1910	20,0	4800	0,381	0,0350	0,0088			
0100	3460	36,3	4400	0,773	0,0850	0,0210			
0110	5600	58,5	4200	0,962	0,1678	0,0560			
0125	7100	74,2	4000	1,529	0,3098	0,0560			
0140	10400	108,7	3800	1,892	0,5328	0,0670			
0150	14500	152,2	3700	2,454	0,8610	0,1670			
0160	18700	196,0	3600	3,783	1,3580	0,1670	±2		

Torsional stiffness and moment of inertia refer to a combination of hub type 0 and hub type I with max. possible bore diameter respectively and shortest standard DBSE L3.

Coupling size	Pilot bore d^* mm	Min. bore d^* mm	Max. bore d^*		D mm	D1 mm	L1 mm	DBSE L3		M** mm	Gap O mm	Weight with DBSE L3	
			Hub type 0 mm	Hub type I mm				shortest possible mm	Standard mm			with shortest standard kg	per additional meter to the standard kg
0024	8	10	22	25	63	35	30	54	100 140	75	6,5	1,3	2,3
0038	10	12	30	38	82	45	40	54	100 140 180	85	6,5	2,3	3,2
0048	15	17	40	50	102	57	45	66		95	8,0	4,7	3,2
0065	15	17	52	70	128	77	55	78		110	9,5	8,0	7,0
0075	20	22	65	80	146	94	60	88	140 180	120	12,0	11,4	8,4
0100	25	27	80	100	176	115	70	102	140 180 250	140	13,0	19,5	13,1
0110	30	32	90	115	197	132	90	114		175	14,4	29,3	21,7
0125	40	42	105	130	225	147	95	132		185	16,2	42,1	21,7
0140	45	47	115	140	250	162	105	144		180	19,5	61,0	27,1
0150	50	52	120	155	275	178	115	168	250 300	215	21,5	81,7	42,8
0160	60	62	135	165	300	190	130	170	300	235	23,5	106,9	42,8

For finish bores, please specify bore diameter hub A and hub B. Tolerance of finish bores H7. Keyways in accordance with DIN 6885, sheet 1. Keyway tolerance JS9, different bore and keyway tolerances on request. • The weight refers to the shortest standard DBSE L3.

Upon request: Varying DBSEs L3; Designs with taper bushes; Couplings larger than frame size 0160

In deviation from figure 21-1, a combination of the hubs of type 0 / 0 and type I / I is possible.

For vertical installation, please contact RINGSPANN.

* Bores also available in inch size, see page 68. • ** Distance M is required to tighten and loosen the screws for hub type I.