Double Beam Couplings RBC … DWC-ALU

with clamp
made of aluminium

Features

- Small coupling for universal use
- Backlash-free angle-synchronous transmission of rotary movements
- High radial misalignment
- For smaller torques
- Made of aluminium 7075-T6, material no. 3.4365
- Optimum compensation of shaft misalignments
- Typical applications: General mechanical engineering, apparatus engineering, spindle drives

Order example	Code
Coupling design	RBC
Coupling size	0100
Type	DWC
Material: • Aluminium	ALU
Bore diameter d1 = 10 mm	010.00
Bore diameter d2 = 8 mm	008.00

RBC 0100 DWC-ALU-010.00-008.00

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RINGSPANN®

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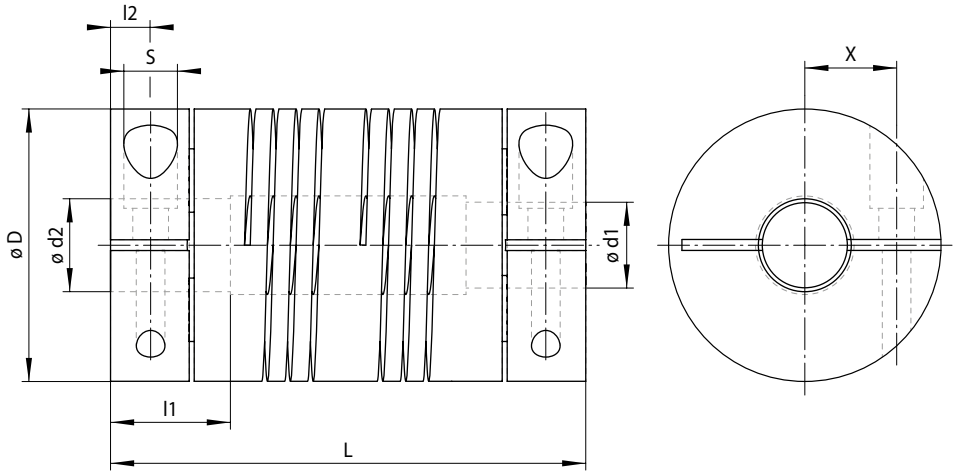

13-1

Coupling size	Standard bore combinations	Torque			Max. speed	Stiffness		Moment of inertia [1]	Screw tightening torque	Permissible shaft misalignment		
		short-term	one-sided	reversing		Torsional stiffness Ct	Axial spring stiffness			Axial	Radial	Angular
	d1 / d2 mm	Nm	Nm	Nm	min^{-1}	Nm/rad	N/mm	$x10^{-6}$ kgm^2	Nm	mm	mm	°
0100	6 / 6	3,2	1,6	0,8	3 600	25	20	4,52	2,0	± 0,25	± 0,75	5
	8 / 6	2,7	1,4	0,7		17	13					
	8 / 8	2,7	1,4	0,7		17	13					
	10 / 6	2,3	1,2	0,6		11	8					
	10 / 8	2,3	1,2	0,6		11	8					
	10 / 10	2,3	1,2	0,6		11	8					
0125	8 / 8	6,4	3,2	1,6	3 600	50	23	15,2	4,7	± 0,25	± 0,75	5
	10 / 8	5,5	2,8	1,4		34	16					
	10 /10	5,5	2,8	1,4		34	16					
	12 /8	4,1	2,1	1,1		24	11					
	12 / 10	4,1	2,1	1,1		24	11					
	12 / 12	4,1	2,1	1,1		24	11					
0150	10 / 10	12,0	6,0	3,0	3 600	91	38	34,1	4,7	± 0,25	± 0,75	5
	12 / 10	10,3	5,2	2,6		69	28					
	12 / 12	10,3	5,2	2,6		69	28					

Bore tolerance: 0/+ 0.05 mm; Shaft tolerance (recommended): - 0.005/- 0.013 mm
[1] Values based on the smallest bore diameter

Coupling size	D	L	l1	l2	S	X	Weight [1]
	mm	mm	mm	mm	mm	mm	g
0100	25,4	44,5	9,4	3,8	M3	7,9	54
0125	31,8	60,2	13,0	5,6	M4	9,7	113
0150	38,1	66,5	16,8	5,6	M4	13,0	180

[1] Values based on the smallest bore diameter
Other sizes and designs with special bores (including inch dimensions) on request