

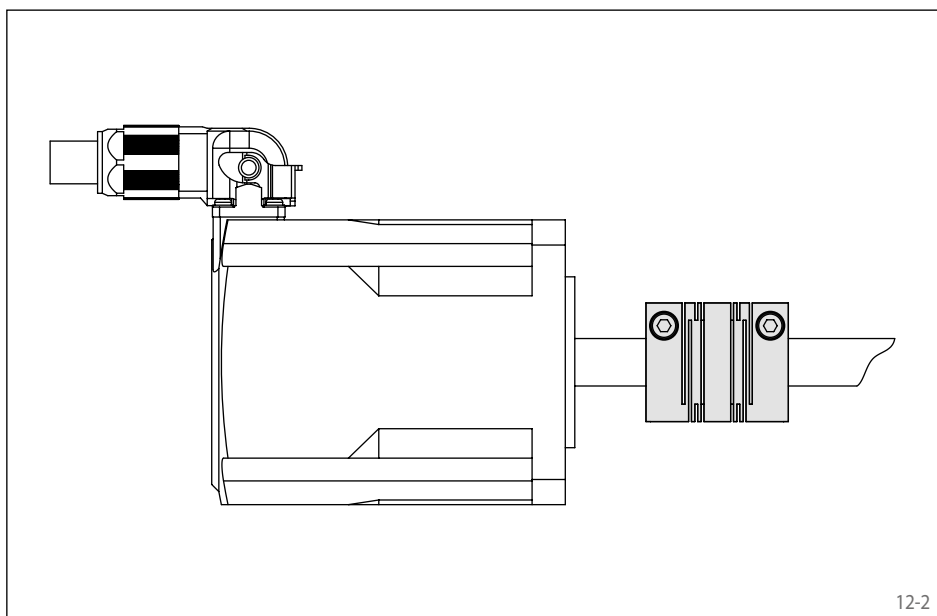
Double Beam Couplings RBC ... DWC-ALU

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



Application example

The Beam Coupling RBC ... DWC is characterised by its double slotting, which makes it more flexible and allows it to compensate for greater radial misalignment. With its low weight and excellent damping properties, the aluminium Beam Coupling is particularly suitable for dynamic systems such as servo drives or stepper motors, where precise and low-vibration movements are required.

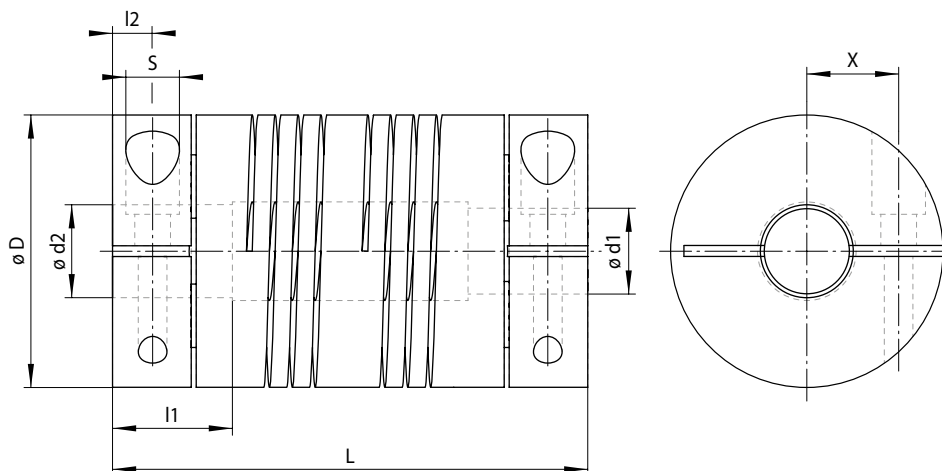
Order example

	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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Coupling size	Standard bore combinations d1 / d2 mm	Torque			Max. speed min ⁻¹	Stiffness		Moment of inertia ¹⁾ x10 ⁻⁶ kgm ²	Screw tightening torque Nm	Permissible shaft misalignment		
		short-term Nm	one-sided Nm	reversing Nm		Torsional stiffness Ct Nm/rad	Axial spring stiffness N/mm			Axial mm	Radial mm	Angular °
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					
0125	10/10	2,3	1,2	0,6	3 600	11	8	15,2	4,7	± 0,25	± 0,75	5
	8/8	6,4	3,2	1,6		50	23					
	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					
0150	12/10	4,1	2,1	1,1	3 600	24	11	34,1	4,7	± 0,25	± 0,75	5
	12/12	4,1	2,1	1,1		24	11					
	10/10	12,0	6,0	3,0		91	38					
0200	12/12	10,3	5,2	2,6	3 600	69	28	125,3	16,0	± 0,25	± 0,75	5
	10/10	25,8	12,9	6,5		230	38					
	12/12	23,0	11,5	5,8		191	29					
	14/14	21,3	10,7	5,4		157	22					
0225	16/16	19,6	9,8	4,9	3 600	128	17	231,8	16,0	± 0,25	± 0,75	5
	10/10	37,1	18,6	9,3		418	81					
	12/12	36,2	18,1	9,1		356	61					
	14/14	34,6	17,3	8,7		301	47					
	15/15	34,4	17,2	8,6		281	42					
	16/16	32,8	16,4	8,2		258	37					
	18/18	29,4	14,7	7,4		211	30					
	19/19	28,7	14,4	7,2		203	27					
20/20	28,7	14,4	7,2	178	25							
	22/22	26,0	13,0	6,5		144	21					

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

Coupling size	D mm	L mm	l1 mm	l2 mm	S mm	X mm	Weight ¹⁾ 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
0200	50,8	76,2	18,9	6,6	M6	16,7	374
0225	57,2	88,9	21,8	10,2	M6	20,0	550

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