

Single Beam Couplings RBC ... EWS-ALU

with set screw
made of aluminium

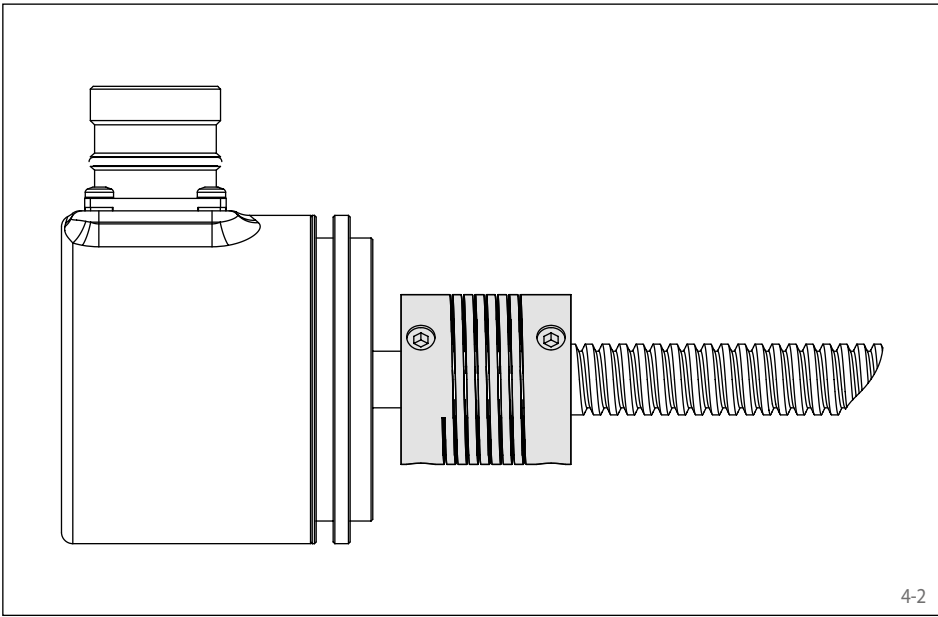


Features

- Small coupling for universal use
- Backlash-free angle-synchronous transmission of rotary movements
- For light applications
- Made of aluminium 7075-T6, material no. 3.4365
- Optimum compensation of shaft misalignments
- Typical applications: Encoders, tachogenerators, spindle drives

Application example

The Beam Coupling RBC ... EWS made of aluminium provides a lightweight and corrosion-resistant connection between rotary encoders, tachogenerators or spindle drives and machine shafts. The low weight and high corrosion resistance of the coupling ensure precise and reliable operation, even under demanding conditions.



Order example

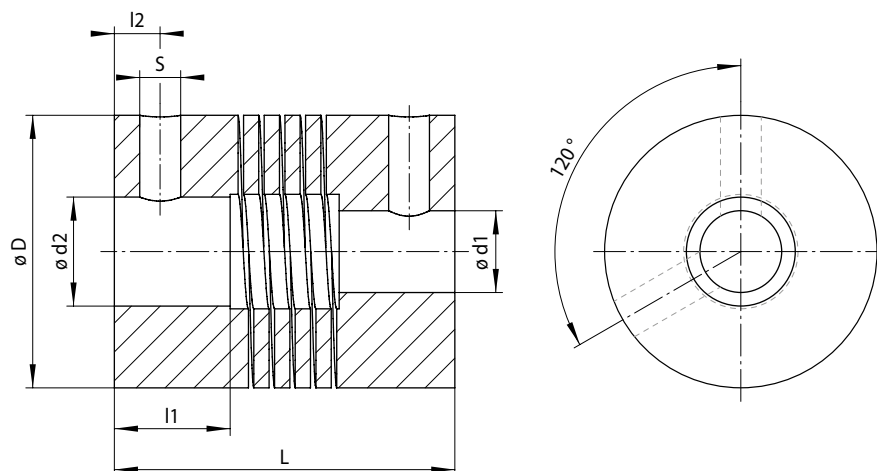
	Code
Coupling design	RBC
Coupling size	0030
Type	EWS
Material: • Aluminium	ALU
Bore diameter d1 = 11 mm	011.00
Bore diameter d2 = 10 mm	010.00

RBC 0030 EWS-ALU-011.00-010.00

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RINGSPANN®

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Coupling size	Standard bore combinations d1 / d2 mm	Torque short-term Nm	Torque one-sided Nm	Torque reversing Nm	Max. speed min ⁻¹	Stiffness			Moment of inertia ¹⁾ x10 ⁻⁶ kgm ²	Screw tightening torque Nm	Permissible shaft misalignment		
						Torsional stiffness Ct Nm/rad	Radial spring stiffness N/mm	Axial spring stiffness N/mm			Axial mm	Radial mm	Angular °
0015	3 / 3	0,71	0,36	0,18	10 000	11,2	169	44	0,23	1,0	± 0,25	± 0,25	5
	4 / 3	0,66	0,33	0,17		8,0	131	29					
	4 / 4	0,66	0,33	0,17		8,0	131	29					
	5 / 3	0,59	0,3	0,15		5,7	102	20					
	5 / 4	0,59	0,3	0,15		5,7	102	20					
0020	5 / 5	0,59	0,3	0,15	10 000	5,7	102	20	0,78	1,0	± 0,25	± 0,25	5
	4 / 4	1,3	0,7	0,4		21,2	179	29					
	5 / 4	1,2	0,6	0,3		16,4	149	21					
	5 / 5	1,2	0,6	0,3		16,4	149	21					
	6 / 4	1,1	0,6	0,3		12,7	124	15					
0025	6 / 5	1,1	0,6	0,3	10 000	12,7	124	15	2,31	2,1	± 0,25	± 0,25	5
	6 / 6	1,1	0,6	0,3		12,7	124	15					
	6 / 6	2,9	1,5	0,8		38,2	236	34					
	8 / 6	2,6	1,3	0,7		26,0	175	21					
	8 / 8	2,6	1,3	0,7		26,0	175	21					
0030	10 / 6	2,2	1,1	0,6	10 000	16,4	126	14	5,50	4,7	± 0,25	± 0,25	5
	10 / 8	2,2	1,1	0,6		16,4	126	14					
	10 / 10	2,2	1,1	0,6		16,4	126	14					
	11 / 10	4,6	2,3	1,2		44,1	192	25					
	11 / 11	4,3	2,2	1,1		35,8	169	21					
0040	11 / 11	4,3	2,2	1,1	10 000	35,8	169	21	29,40	7,7	± 0,25	± 0,25	5
	12 / 10	4,0	2,0	1,0		30,2	147	18					
	12 / 11	4,0	2,0	1,0		30,2	147	18					
	12 / 12	4,0	2,0	1,0		30,2	147	18					
	12 / 12	12,0	6,0	3,0		127,3	340	44					
0050	14 / 14	11,0	5,5	2,8	10 000	97,1	280	33	85,90	7,7	± 0,25	± 0,25	5
	16 / 16	9,7	4,9	2,5		73,5	227	25					
	14 / 14	19,0	9,5	4,8		229,2	375	34					
	16 / 16	18,0	9,0	4,5		184,9	322	27					
	19 / 19	16,0	8,0	4,0		133,3	254	19					
	20 / 20	15,0	7,5	3,8		117,0	234	17					

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	Weight ¹⁾ g
0015	15	20	4,8	2,5	M3	8
0020	20	20	4,8	2,5	M3	15
0025	25	24	5,9	3,0	M4	28
0030	30	30	6,8	3,5	M5	47
0040	40	50	17,0	6,7	M6	135
0050	50	54	17,0	7,5	M6	255

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