

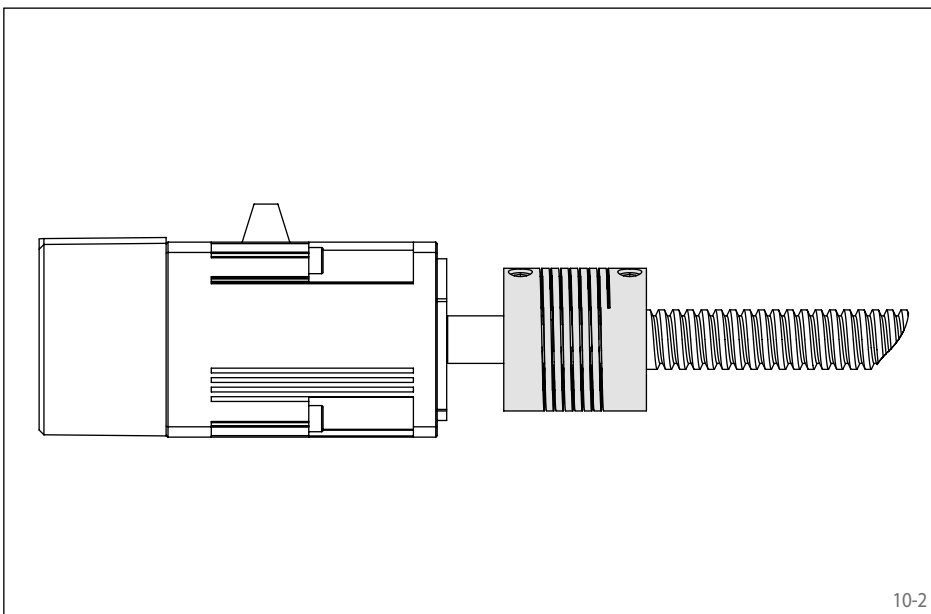
Single Beam Couplings RBC ... EWC-STE

with clamp
made of steel, stainless



Features

- Small coupling for universal use
- Backlash-free angle-synchronous transmission of rotary movements
- For medium torques
- Made of stainless steel 17-4PH, Material no. 1.4542
- Optimum compensation of shaft misalignments
- Typical applications: Encoders, tachogenerators, spindle drives



Application example

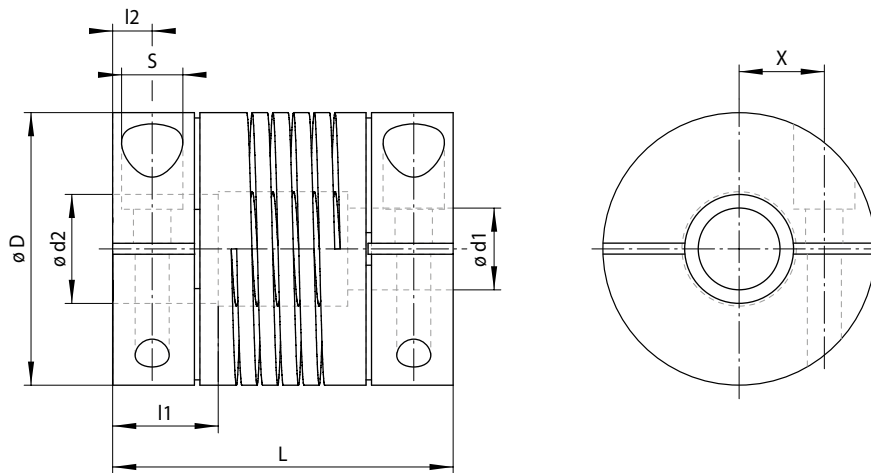
The steel Beam Coupling RBC ... EWC is also ideal for applications with encoders. Due to its higher strength and load capacity, it is particularly suitable for more power-intensive applications where the Beam Couplings RBC ... EWC made of aluminium reach their limits.

Order example

	Code
Coupling design	RBC
Coupling size	0030
Type	EWC
Material: • Steel, stainless	STE
Bore diameter d1 = 11 mm	011.00
Bore diameter d2 = 10 mm	010.00

RBC 0030 EWC-STE-011.00-010.00

with clamp
made of steel, stainless



11-1

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	Radial spring stiffness N/mm	Axial spring stiffness N/mm			Axial mm	Radial mm	Angular °
0015	3 / 3	1,4	0,7	0,35	10 000	30,2	473	124	0,73	0,5	± 0,25	± 0,25	5
	4 / 4	1,3	0,65	0,33		22,0	368	81					
	5 / 5	1,2	0,6	0,3		15,5	285	55					
0020	5 / 5	2,5	1,3	0,7	10 000	44,1	418	58	3,02	2,0	± 0,25	± 0,25	5
	6 / 5	2,3	1,2	0,6		35,8	346	42					
0025	6 / 6	2,3	1,2	0,6	10 000	35,8	346	42	8,02	2,0	± 0,25	± 0,25	5
	6 / 6	5,7	2,9	1,5		101,0	662	95					
	8 / 6	5,1	2,6	1,3		69,9	490	58					
	8 / 8	5,1	2,6	1,3		69,9	490	58					
	10 / 6	4,3	2,2	1,1		44,1	354	38					
	10 / 8	4,3	2,2	1,1		44,1	354	38					
	10 / 10	4,3	2,2	1,1		44,1	354	38					
0030	10 / 10	8,9	4,5	2,3	10 000	119,4	538	71	20,5	4,7	± 0,25	± 0,25	5
	11 / 10	8,3	4,2	2,1		98,8	473	58					
	11 / 11	8,3	4,2	2,1		98,8	473	58					
	12 / 10	7,7	3,9	2,0		81,9	412	49					
	12 / 11	7,7	3,9	2,0		81,9	412	49					
	12 / 12	7,7	3,9	2,0		81,9	412	49					
0040	12 / 12	23,0	11,5	5,8	10 000	358,2	952	124	81,8	9,5	± 0,25	± 0,25	5
	14 / 14	21,0	10,5	5,3		272,9	783	93					
	16 / 16	19,0	9,5	4,8		204,7	636	71					
0050	14 / 14	37,0	18,5	9,3	10 000	622,9	1 050	96	239,3	16,0	± 0,25	± 0,25	5
	16 / 16	35,0	17,5	8,8		521,0	902	75					
	19 / 19	31,0	15,5	7,8		358,2	711	54					
	20 / 20	30,0	15,0	7,5		318,4	655	48					

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
0015	15	22	6,0	2,5	M2	4,3	25
0020	20	28	8,6	3,7	M3	5,5	58
0025	25	30	8,6	3,7	M3	7,7	97
0030	30	38	11,0	5,0	M4	8,8	167
0040	40	50	15,5	5,8	M5	12,5	375
0050	50	54	15,5	6,7	M6	16,3	710

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