

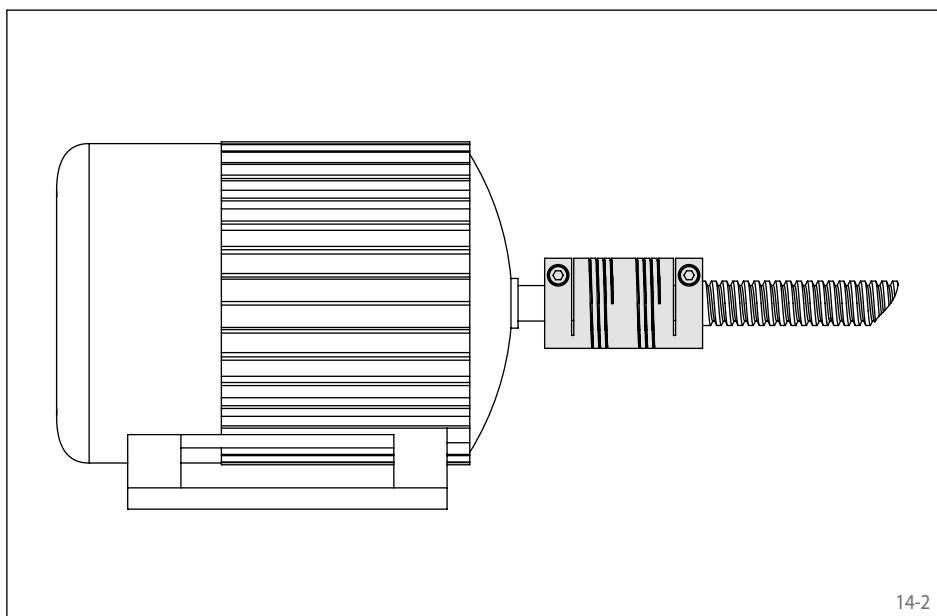
Double Beam Couplings RBC ... DWC-STE

with clamp
made of steel, stainless



Features

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



Application example

The Beam Coupling RBC ... DWC made of steel offers the possibility of transmitting higher torques thanks to its high strength. It is ideal for more power-intensive applications such as spindle drives, where stability and load capacity are the focus, while at the same time effectively compensating for misalignment.

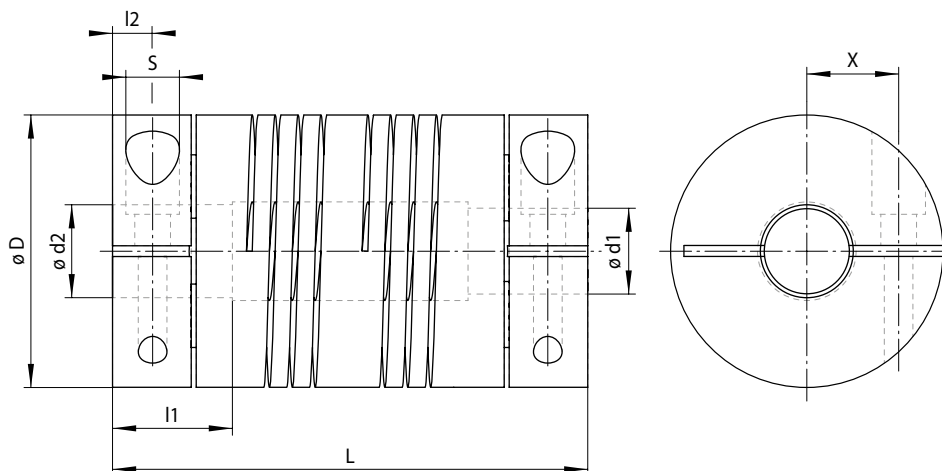
Order example

	Code
Coupling design	RBC
Coupling size	0100
Type	DWC
Material: • Steel, stainless	STE
Bore diameter d1 = 10 mm	010.00
Bore diameter d2 = 8 mm	008.00

RBC 0100 DWC-STE-010.00-008.00

Double Beam Couplings RBC ... DWC-STE

with clamp
made of steel, stainless



15-1

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	Axial spring stiffness N/mm			Axial mm	Radial mm	Angular °
0100	6/6	6,8	3,4	1,7	3 600	70	56	12,6	2,0	± 0,25	± 0,75	5
	8/6	5,9	3,0	1,5		47	36					
	8/8	5,9	3,0	1,5		47	36					
	10/6	5,0	2,5	1,3		30	22					
	10/8	5,0	2,5	1,3		30	22					
	10/10	5,0	2,5	1,3		30	22					
0125	8/8	14,2	7,1	3,6	3 600	130	64	42,3	4,7	± 0,25	± 0,75	5
	12/8	9,6	4,8	2,4		66	31					
	12/12	9,6	4,8	2,4		66	31					
	15/8	7,3	3,7	1,8		29	17					
	15/12	7,3	3,7	1,8		29	17					
0150	12/12	23,5	11,8	5,9	3 600	190	78	96,1	4,7	± 0,25	± 0,75	5
	14/12	20,7	10,4	5,2		143	60					
	14/14	20,7	10,4	5,2		143	60					
	16/12	17,5	8,8	4,4		105	46					
	16/14	17,5	8,8	4,4		105	46					
0200	16/16	17,5	8,8	4,4	3 600	105	46	349,8	16,0	± 0,25	± 0,75	5
	10/10	54,2	27,1	13,6		637	106					
	12/12	52,4	26,2	13,1		530	81					
	14/14	48,8	24,4	12,2		434	62					
	16/16	44,2	22,1	11,1		356	48					
0225	18/18	40,5	20,3	10,2	3 600	286	40	646,6	16,0	± 0,25	± 0,75	5
	19/19	38,6	19,3	9,7		258	36					
	10/10	83,3	41,7	20,9		1 180	227					
	12/12	83,3	41,7	20,9		1 000	171					
	14/14	81,4	40,7	20,4		848	132					
	15/15	78,2	39,1	19,6		758	118					
	16/16	78,2	39,1	19,6		708	104					
	18/18	69,0	34,5	17,3		595	84					
	19/19	64,2	32,1	16,1		547	76					
	20/20	62,1	31,1	15,6		494	70					
22/22	59,2	29,6	14,8	328	59							
25/25	51,5	25,8	12,9	295	45							

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	150
0125	31,8	60,2	13,0	5,6	M4	9,7	315
0150	38,1	66,5	16,8	5,6	M4	13,0	507
0200	50,8	76,2	18,9	6,6	M6	16,7	1 044
0225	57,2	88,9	21,8	10,2	M6	20,0	1 534

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