

# Cross-Slotted Couplings RBC ... FKC-ALU

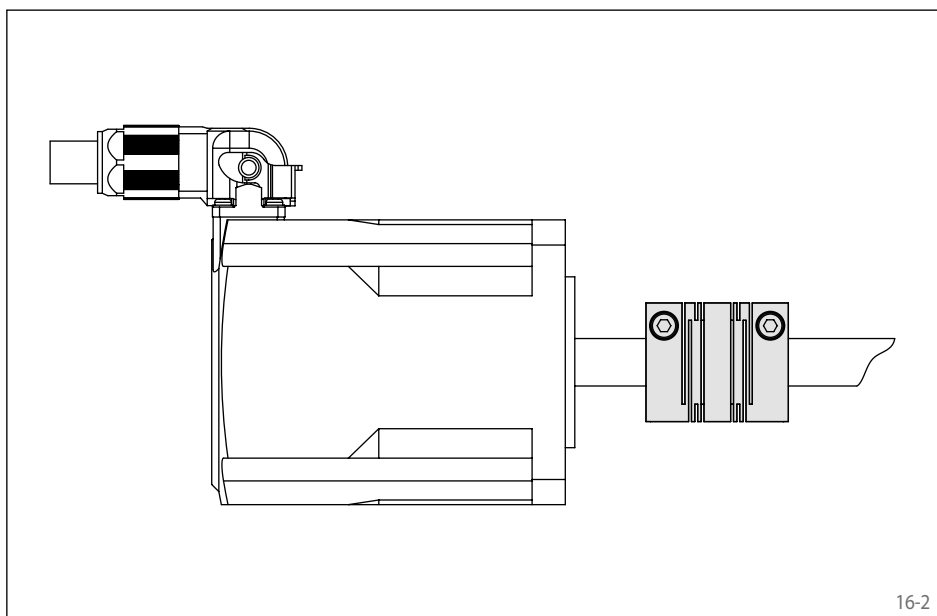
with clamp  
made of aluminium



16-1

## Features

- Backlash-free, torsionally rigid Cross-Slotted Coupling
- For backlash-free drives with fast start/stop cycles
- For medium torques
- Made of aluminium 7075-T6, material no. 3.4365
- Typical applications: Servomotors, positioning systems, step motors



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## Application example

The RBC ... FKC is the ideal solution for compensating all types of misalignment. The unique slotted structure is the optimum solution for non-aligned shafts or highly resonant installation situations. The one-piece production enables high speeds and adaptation to customised lengths.

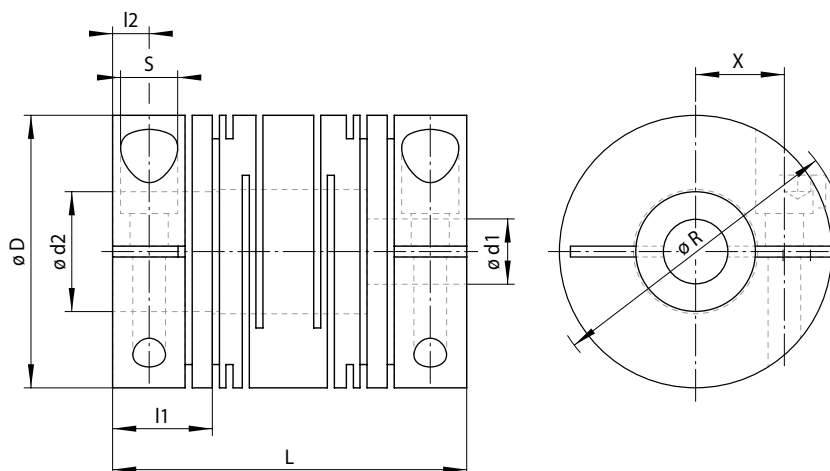
## Order example

	Code
Coupling design	RBC
Coupling size	0025
Type	FKC
Material: • Aluminium	ALU
Bore diameter d1 = 10 mm	010.00
Bore diameter d2 = 8 mm	008.00

RBC 0025 FKC-ALU-010.00-008.00

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Coupling size	Standard bore combinations d1 / d2 mm	Torque constantly reversing Nm	Max. speed min <sup>-1</sup>	Stiffness Torsional stiffness Ct Nm/rad	Moment of inertia <sup>1)</sup> x10 <sup>-6</sup> kgm <sup>2</sup>	Screw tightening torque Nm	Permissible shaft misalignment		
							Axial mm	Radial mm	Angular °
0015	3/3	0,3	10 000	51	0,27	1,1	± 0,25	± 0,1	3
	5/3								
0020	4/4	0,5	10 000	125	1,04	2,0	± 0,25	± 0,1	3
	6/4								
0025	6/6	1,0	10 000	261	2,73	2,0	± 0,25	± 0,15	3
	8/6								
	8/8								
	10/6								
	10/8								
0030	10/10	2,0	10 000	441	7,36	4,7	± 0,25	± 0,15	3
	12/10								
0040	12/12	5,0	10 000	868	37,6	9,5	± 0,25	± 0,20	3
	14/14								
	16/16								
0050	12/12	10,0	10 000	1 976	101,0	16,0	± 0,25	± 0,20	3
	14/14								
	15/15								
	16/16								
	18/18								
	19/19								
	20/20								
	22/22								

<sup>1)</sup> 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	R mm	X mm	Weight <sup>1)</sup> g
0015	15	24	6,3	3,0	M2,5	17,5	5,0	9
0020	20	28	7,9	3,8	M3	-	5,4	20
0025	25	30	8,0	3,8	M3	-	7,7	33
0030	30	38	10,3	5,0	M4	-	9,1	60
0040	40	60	15,7	5,8	M5	-	12,5	177
0050	50	65	17,0	6,7	M6	-	16,3	306

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