

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

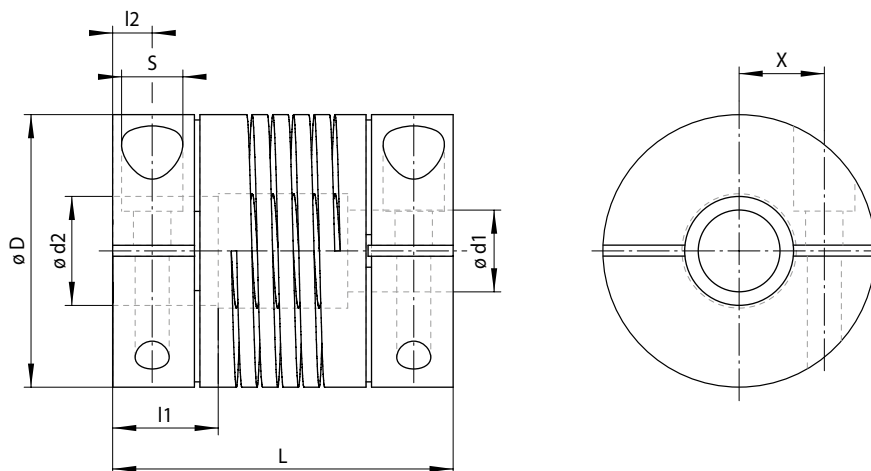
Order example

| | 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

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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 ° |
| 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 | | | | | |
| | 6 / 6 | 2,3 | 1,2 | 0,6 | | 35,8 | 346 | 42 | | | | | |
| 0025 | 6 / 6 | 5,7 | 2,9 | 1,5 | 10 000 | 101,0 | 662 | 95 | 8,02 | 2,0 | ± 0,25 | ± 0,25 | 5 |
| | 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 | | | | | |
| 0030 | 10 / 10 | 4,3 | 2,2 | 1,1 | 10 000 | 44,1 | 354 | 38 | 20,5 | 4,7 | ± 0,25 | ± 0,25 | 5 |
| | 10 / 10 | 8,9 | 4,5 | 2,3 | | 119,4 | 538 | 71 | | | | | |
| | 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 | | | | | | |

Bore tolerance: 0/+ 0.05 mm; Shaft tolerance (recommended): - 0.005/- 0.013 mm

¹⁾ Values based on the smallest bore diameter

| Coupling size | D | L | l1 | l2 | S | X | Weight ¹⁾ |
|---------------|----|----|------|-----|----|-----|----------------------|
| | mm | mm | mm | mm | mm | mm | g |
| 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 |

¹⁾ Values based on the smallest bore diameter

Other sizes and designs with special bores (including inch dimensions) on request