

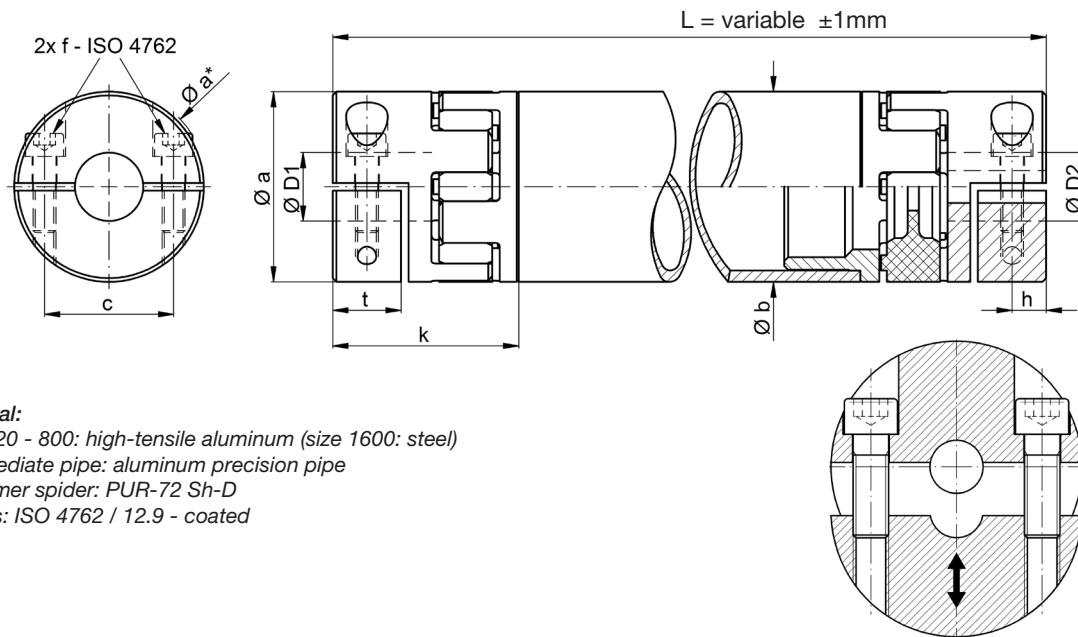
Elastomer Coupling with Intermediate Pipe I EKHZ

/// variable length of up to 3 m // plug-in // backlash-free // oscillation dampening
/// rust-proof version // split-hub design - simple installation

technical data:

| EKHZ | T _N [Nm] | torsional stiffness (stat. at 0,5xT _N) [Nm/arcmin] | | | | moment of inertia [10 ⁻³ kgm ²] | | | | max. speed approx. [min ⁻¹] | | | | mass approx. [kg] | | | |
|------|------------------------|---|------|------|------|---|------|------|------|--|-------|-------|------|----------------------|-----|------|-----|
| | | 0,5m | 1m | 2m | 3m | 0,5m | 1m | 2m | 3m | 0,5m | 1m | 2m | 3m | 0,5m | 1m | 2m | 3m |
| 20 | 20 | 0,19 | 0,16 | 0,13 | 0,1 | 0,14 | 0,23 | 0,42 | 0,61 | 3.500 | 2.700 | 680 | 300 | 0,5 | 0,9 | 1,6 | 2,3 |
| 45 | 45 | 0,49 | 0,44 | 0,35 | 0,3 | 0,48 | 0,82 | 1,53 | 2,2 | 3.500 | 3.500 | 990 | 440 | 0,9 | 1,5 | 2,8 | 4,0 |
| 90 | 90 | 0,9 | 0,8 | 0,64 | 0,54 | 0,8 | 1,4 | 2,6 | 3,8 | 3.500 | 3.500 | 1200 | 530 | 1,3 | 2,0 | 3,5 | 5,0 |
| 200 | 200 | 1,05 | 0,95 | 0,79 | 0,68 | 1,4 | 2,4 | 4,3 | 6,2 | 3.500 | 3.500 | 1.400 | 600 | 1,7 | 2,5 | 4,3 | 6,0 |
| 400 | 400 | 2,9 | 2,5 | 1,9 | 1,57 | 3,2 | 5,1 | 8,9 | 12,7 | 3.500 | 3.500 | 1.600 | 700 | 2,5 | 3,5 | 5,5 | 7,5 |
| 800 | 800 | 5,7 | 5,3 | 4,7 | 4,2 | 14,7 | 22,9 | 39,3 | 55,7 | 3.500 | 3.500 | 2.400 | 1070 | 5,8 | 8,2 | 13,1 | 18 |
| 1600 | 1600 | 10,2 | 9,7 | 8,8 | 8,1 | 87 | 107 | 147 | 187 | 3.500 | 3.500 | 2.000 | 1650 | 22 | 25 | 32 | 39 |

maximum axial shaft misalignment ± 1 mm maximum lateral shaft misalignment 5 mm per meter overall length
maximum temperature range: -30°C up to +90°C



material:
hubs: 20 - 800: high-tensile aluminum (size 1600: steel)
intermediate pipe: aluminum precision pipe
elastomer spider: PUR-72 Sh-D
screws: ISO 4762 / 12.9 - coated

dimensions [mm]: length dimensions according to DIN ISO 2768 cH

| EKHZ size | Øa | Øa* | Øb | c | f-tightening- torque | h | k | L _{min} | t | ØD1/2 min | ØD1/2 max |
|--------------|-----|-----|-----|-----|-------------------------|------|-----|------------------|----|--------------|--------------|
| 20 | 40 | 42 | 35 | 27 | M5 - 8 Nm | 8,5 | 43 | 130 | 16 | 8 | 20 |
| 45 | 50 | 52 | 50 | 34 | M6 - 14 Nm | 10 | 50 | 140 | 19 | 12 | 26 |
| 90 | 60 | 63 | 60 | 41 | M8 - 35 Nm | 11,5 | 53 | 155 | 22 | 14 | 30 |
| 200 | 70 | 76 | 70 | 48 | M10 - 65 Nm | 14 | 59 | 170 | 26 | 17 | 35 |
| 400 | 85 | 91 | 80 | 58 | M12 - 115 Nm | 15 | 71 | 215 | 28 | 22 | 42 |
| 800 | 120 | 126 | 120 | 90 | M14 - 180 Nm | 18 | 85 | 250 | 34 | 28 | 70 |
| 1600 | 160 | 165 | 160 | 122 | M16 - 290 Nm | 24 | 105 | 320 | 43 | 40 | 100 |

note: Øa* = interfering edge screw head

order example: EKHZ 90 - D1 = 28^{F6} D2 = 24^{F6} L = 1250