

Elastomer Coupling I Series EKH

with split-hub design / plug-in / backlash-free / stainless

technical data:

| EKH | T _N | hard-ness | moment of inertia | torsional stiffness (stat. 0,5 x T _N) | max. shaft misalignment (mm) | | lateral spring rate | tightening torque screw | n _{max} |
|------|----------------|-----------|--------------------------------------|---|------------------------------|---------|---------------------|-------------------------|------------------|
| size | [Nm] | [shore] | [10 ⁻³ kgm ²] | [Nm/arcmin] | axial ± | lateral | [N/mm] | "f" [Nm] | [upm] |
| 15 | 15 | 98 Sh-A | 0,03 | 0,24 | 0,5 | 0,10 | 2100 | 8 | 19000 |
| 20 | 20 | 72 Sh-D | 0,03 | 0,46 | 0,5 | 0,07 | 2900 | 8 | 19000 |
| 30 | 30 | 98 Sh-A | 0,09 | 0,7 | 0,5 | 0,10 | 2500 | 14 | 15000 |
| 45 | 45 | 72 Sh-D | 0,09 | 1,1 | 0,5 | 0,07 | 3600 | 14 | 15000 |
| 60 | 60 | 98 Sh-A | 0,2 | 1,0 | 0,5 | 0,10 | 2600 | 35 | 14000 |
| 90 | 90 | 72 Sh-D | 0,2 | 2,0 | 0,5 | 0,07 | 3700 | 35 | 14000 |
| 150 | 150 | 98 Sh-A | 0,4 | 1,2 | 1 | 0,10 | 3300 | 65 | 12000 |
| 200 | 200 | 72 Sh-D | 0,4 | 2,3 | 1 | 0,07 | 4600 | 65 | 12000 |
| 300 | 300 | 98 Sh-A | 1,0 | 3,6 | 1 | 0,12 | 4500 | 115 | 10000 |
| 400 | 400 | 72 Sh-D | 1,0 | 7,0 | 1 | 0,10 | 6500 | 115 | 10000 |
| 700 | 700 | 98 Sh-A | 6,0 | 8,0 | 1 | 0,15 | 7000 | 180 | 6500 |
| 1000 | 1000 | 72 Sh-D | 6,0 | 12 | 1 | 0,10 | 9600 | 180 | 6500 |
| 2000 | 2000 | 98 Sh-A | 62 | 21 | 1 | 0,15 | 9000 | 290 | 5000 |

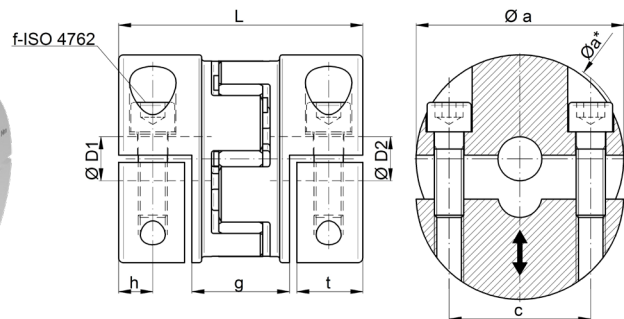
material:

elastomer spider: polyurethane

split-hubs: high tensile aluminum

(size 2000 heat treated steel)

screws: ISO 4762 / 12.9 - coated



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

| EKH | Ø a | Ø a* | c | g | h | t | L | f | mass ~ [kg] | Ø D 1/2 min | Ø D 1/2 max | Ø D 1/2 prebored |
|------|-----|------|-----|----|------|----|-----|-----|-------------|-------------|-------------|------------------|
| 15 | 40 | 42 | 27 | 26 | 8,5 | 16 | 62 | M5 | 0,17 | 8 | 20 | 8 |
| 20 | 40 | 42 | 27 | 26 | 8,5 | 16 | 62 | M5 | 0,17 | 10 | 20 | 8 |
| 30 | 50 | 52 | 34 | 30 | 10 | 18 | 72 | M6 | 0,3 | 10 | 26 | 10 |
| 45 | 50 | 52 | 34 | 30 | 10 | 18 | 72 | M6 | 0,3 | 15 | 26 | 10 |
| 60 | 60 | 63 | 41 | 30 | 11,5 | 22 | 78 | M8 | 0,5 | 13 | 30 | 12 |
| 90 | 60 | 63 | 41 | 30 | 11,5 | 22 | 78 | M8 | 0,5 | 16 | 30 | 12 |
| 150 | 70 | 76 | 48 | 32 | 14 | 26 | 89 | M10 | 0,75 | 18 | 35 | 16 |
| 200 | 70 | 76 | 48 | 32 | 14 | 26 | 89 | M10 | 0,75 | 20 | 35 | 16 |
| 300 | 85 | 91 | 58 | 40 | 15 | 28 | 102 | M12 | 1,3 | 20 | 42 | 19 |
| 400 | 85 | 91 | 58 | 40 | 15 | 28 | 102 | M12 | 1,3 | 24 | 42 | 19 |
| 700 | 120 | 125 | 90 | 53 | 18 | 34 | 127 | M14 | 3,2 | 32 | 70 | 24 |
| 1000 | 120 | 125 | 90 | 53 | 18 | 34 | 127 | M14 | 3,2 | 42 | 70 | 24 |
| 2000 | 160 | 165 | 122 | 64 | 24 | 43 | 156 | M16 | 18,5 | 48 | 100 | 32 |

Installation Instructions:

The split-hub design allows a backlash-free, force-fitted clamping connection with simple operation. Misalignment errors between the input and output shafts can thus be easily controlled and corrected. For easy assembly, the fixed hub halves can be placed on the shaft pegs and the loose hub pieces can be screwed on. In the case of service, the complicated disassembly of the drive and output units isn't necessary. The distance between the drive shaft and the output shaft must be greater than the dimension „g“.

order example: EKH 200 - D1 = 26^{G6} D2 = 32^{H6}