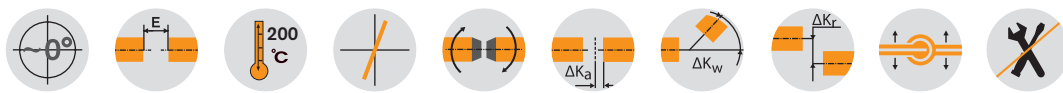


Shell clamping hubs



TOOLFLEX® type S-H / shell clamping hubs Hub material aluminium/bellow material stainless steel

| Size | Finish bore | | Dimensions [mm] | | | | | | | | | | | | |
|------|-------------------|-------------------|-----------------|---------------------------------|------|----------------|----------------|----------------|----------------|--------------------------------|--------------------|--------|---------------------|--|--|
| | d _{min.} | d _{max.} | General | | | | | | | | Cap screws DIN 912 | | | | |
| | | | L | l ₁ , l ₂ | E | D _H | D _K | E _f | t ₁ | x ₁ /x ₂ | e | Mxl | T _A [Nm] | | |
| 20 | 8 | 20 | 51 | 19,5 | 12,0 | 40 | 41,2 | 26,0 | 5,5 | 12,5 | 14,5 | M4x16 | 5,0 | | |
| 30 | 10 | 28 | 68 | 25,5 | 17,0 | 55 | 57,7 | 34,0 | 7,5 | 17,0 | 19,0 | M6x25 | 15,0 | | |
| 38 | 12 | 38 | 78 | 30,0 | 18,0 | 65 | 72,6 | 36,0 | 9,5 | 21,0 | 25,0 | M8x30 | 40,0 | | |
| 45 | 14 | 45 | 94,5 | 36,0 | 22,5 | 83 | 88,8 | 46,5 | 11,0 | 24,0 | 30,0 | M10x35 | 70,0 | | |

Technical data of TOOLFLEX® S-H

| Size | Bel-low-hub-con-nection | Torque of bellow T _{KN} [Nm] ¹⁾ | Max. speed n [rpm] | Moment of inertia ²⁾ [x10 ⁻⁶ kgm ²] | Torsion spring stiffness C _T [Nm/rad] | Axial spring stiffness [N/mm] | Radial spring stiffness [N/mm] | Perm. displacements | | | Weight ⁴⁾ [kg] |
|------|-------------------------|---|--------------------|---|--|-------------------------------|--------------------------------|---------------------|-------------|-------------------|---------------------------|
| | | | | | | | | Axial [mm] | Radial [mm] | Angular [degrees] | |
| 20 | Flanged | 15 | 9550 | 28 | 9600 | 63 | 189 | ±0,4 | 0,15 | 1,0 | 0,110 |
| 30 | | 35 | 6950 | 20 | 17800 | 97 | 233 | ±0,5 | 0,20 | 1,5 | 0,285 |
| 38 | | 65 | 5850 | 42 | 37400 | 108 | 318 | ±0,6 | 0,20 | 1,5 | 0,422 |
| 45 | | 170 | 4750 | 1003 | 95800 | 132 | 738 | ±0,9 | 0,20 | 1,5 | 0,897 |

TOOLFLEX® type M-H / shell clamping hubs Hub material aluminium/bellow material stainless steel

| Size | Finish bore | | Dimensions [mm] | | | | | | | | | | | | |
|------|-------------------|-------------------|-----------------|---------------------------------|------|----------------|----------------|----------------|----------------|--------------------------------|--------------------|--------|---------------------|--|--|
| | d _{min.} | d _{max.} | General | | | | | | | | Cap screws DIN 912 | | | | |
| | | | L | l ₁ , l ₂ | E | D _H | D _K | E _f | t ₁ | x ₁ /x ₂ | e | Mxl | T _A [Nm] | | |
| 20 | 8 | 20 | 58 | 19,5 | 19,0 | 40 | 41,2 | 33,0 | 5,5 | 12,5 | 14,5 | M4x16 | 5,0 | | |
| 30 | 10 | 28 | 77 | 25,5 | 26,0 | 55 | 57,7 | 43,0 | 7,5 | 17,0 | 19,0 | M6x25 | 15,0 | | |
| 38 | 12 | 38 | 90 | 30,0 | 30,0 | 65 | 72,6 | 48,0 | 9,5 | 21,0 | 25,0 | M8x30 | 40,0 | | |
| 45 | 14 | 45 | 111 | 36,0 | 39,0 | 83 | 88,8 | 63,0 | 11,0 | 24,0 | 30,0 | M10x35 | 70,0 | | |

Technical data of TOOLFLEX® M-H

| Size | Bel-low-hub-con-nection | Torque of bellow T _{KN} [Nm] ¹⁾ | Max. speed n [rpm] | Moment of inertia ²⁾ [x10 ⁻⁶ kgm ²] | Torsion spring stiffness C _T [Nm/rad] | Axial spring stiffness [N/mm] | Radial spring stiffness [N/mm] | Perm. displacements | | | Weight ⁴⁾ [kg] |
|------|-------------------------|---|--------------------|---|--|-------------------------------|--------------------------------|---------------------|-------------|-------------------|---------------------------|
| | | | | | | | | Axial [mm] | Radial [mm] | Angular [degrees] | |
| 20 | Flanged | 15 | 9550 | 29 | 9600 | 63 | 189 | ±0,4 | 0,15 | 1,0 | 0,115 |
| 30 | | 35 | 6950 | 138 | 17800 | 97 | 233 | ±0,5 | 0,20 | 1,5 | 0,304 |
| 38 | | 65 | 5850 | 310 | 37400 | 108 | 318 | ±0,6 | 0,20 | 1,5 | 0,445 |
| 45 | | 170 | 4750 | 1069 | 95800 | 132 | 738 | ±0,9 | 0,25 | 1,5 | 0,947 |

¹⁾ For selection see page 18 et seqq.

²⁾ Details referring to the overall coupling with max. bore

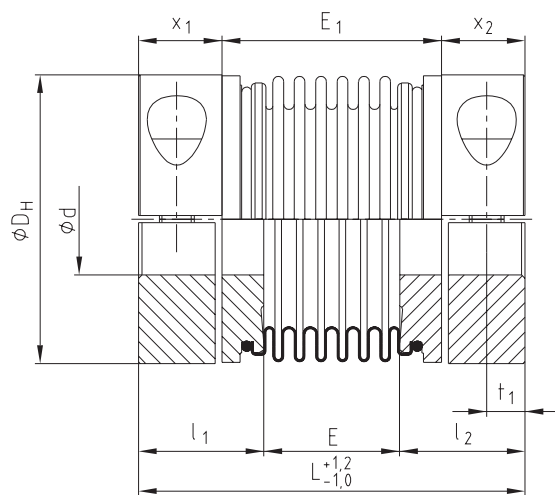
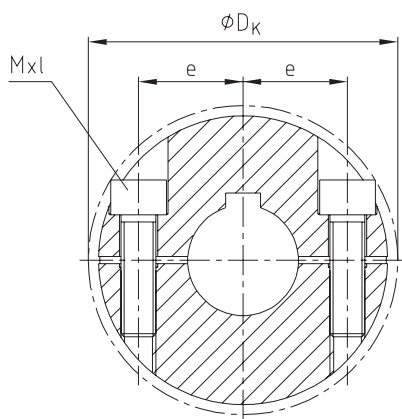
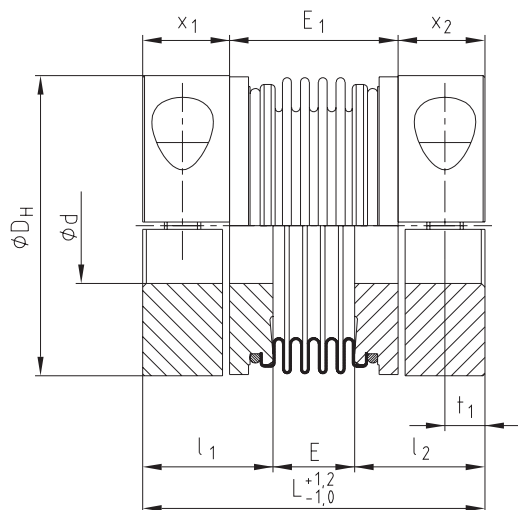
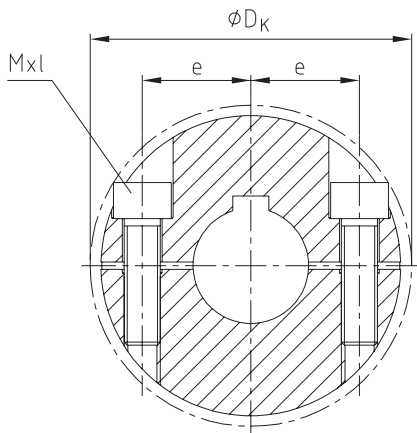
To make sure that the coupling can be assembled/disassembled radially, please observe the insertion dimension x1/x2 of the shafts.

Review of shaft-hub-connection: Friction torques for hub type 2.5 for Ød1/Ød2

| Size | Ø8 | Ø9 | Ø10 | Ø11 | Ø12 | Ø14 | Ø15 | Ø16 | Ø18 | Ø19 | Ø20 | Ø24 | Ø25 | Ø28 | Ø30 | Ø32 | Ø35 | Ø38 | Ø40 | Ø42 | Ø45 | |
|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| 20 | 12,5 | 14,1 | 15,7 | 17,2 | 18,8 | 21,9 | 23,5 | 25,1 | 28,2 | 29,8 | 31,3 | | | | | | | | | | | |
| 30 | | | 31,8 | 35,0 | 38,2 | 44,5 | 47,7 | 50,9 | 57,3 | 60,4 | 63,6 | 76,3 | 79,5 | 89,1 | | | | | | | | |
| 38 | | | | | 74,9 | 87,4 | 93,7 | 99,9 | 112,4 | 118,6 | 124,9 | 149,9 | 156,1 | 174,8 | 187,3 | 199,8 | 218,5 | 237,3 | | | | |
| 45 | | | | | | 123,4 | 132,2 | 141,0 | 158,6 | 167,4 | 176,2 | 211,5 | 220,3 | 246,7 | 264,4 | 282,0 | 308,4 | 334,9 | 352,5 | 370,1 | 396,5 | |

Ordering example:

| TOOLFLEX® 30 S-H | 7.8 | d ₁ - Ø25 | 7.9 | d ₂ - Ø30 |
|---------------------------|----------|----------------------|----------|----------------------|
| Size and type of coupling | Hub type | Finish bore | Hub type | Finish bore |



Hub types

Type 7.8



Clamping hub type H without feather keyway for single-cardanic connection

Type 7.9



Clamping hub type H with feather keyway for single-cardanic connection (on request)