

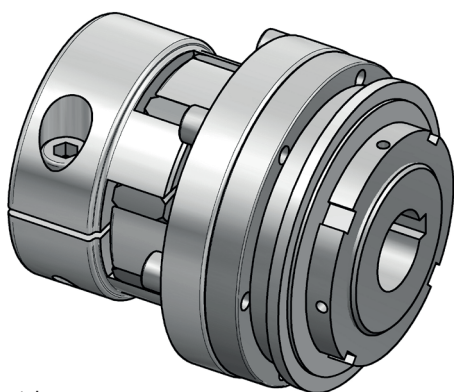
# Safety coupling I Series SKW - EK for direct drives

- /// with elastomer attachment for direct drives // easy keyway connection
- /// elastomer coupling with radial clamping hub // plug in, backlash free, flexible, robust, oscilation dampening

Technical data:

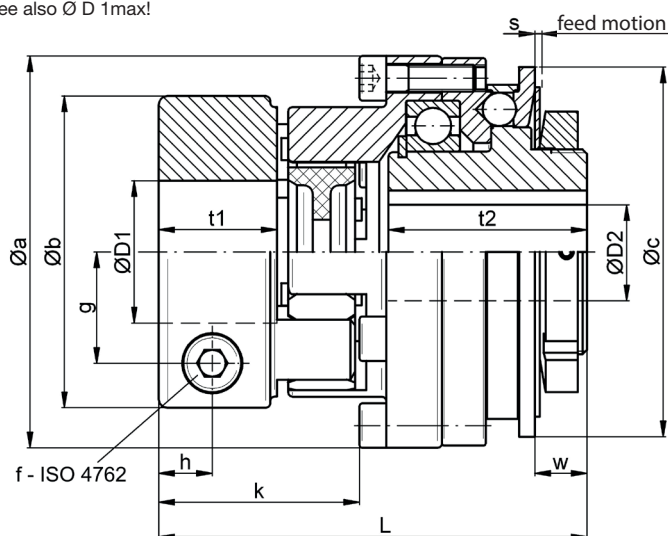
| SKW - EK size | setting range disengagement torque $T_{KA}$ [Nm] | moment of inertia $[10^{-3} \text{kgm}^2]$ | mass approx. [kg] | torsional stiffness [Nm/arcmin] | max. shaft displacement [mm] |         | tightening torque of screws „f“ [Nm] * | $\varnothing D1$ |        | $\varnothing D2$ |     |
|---------------|--|--|-------------------|---------------------------------|------------------------------|---------|--|------------------|--------|------------------|-----|
|               |  |  |                   |                                 | axial $\pm$                  | lateral |  | min              | max    | min              | max |
| 6             | 2 - 6  | 0,11                                       | 0,4               | 0,25                            | 0,5                          | 0,1     | M5 - 8                                 | 8                | 20     | 6                | 12  |
| 12            | 6 - 12   |  |                   |                                 |                              |         |  | 8                | 20     | 6                | 12  |
| 15            | 8 - 15   | 0,44                                       | 0,9               | 1,0                             | 0,5                          | 0,1     | M6 - 14                                | 12               | 32     | 8                | 22  |
| 30            | 13 - 30  |  |                   |                                 |                              |         |  | 12               | 32     | 10               | 22  |
| 45            | 22 - 45  | 1,35                                       | 1,7               | 1,2                             | 1                            | 0,1     | M8 - 35                                | 14               | 32     | 10               | 22  |
| 60            | 25 - 60  |  |                   |                                 |                              |         |  | 16               | 38     | 11               | 32  |
| 100           | 40 - 100   | 5,1  | 3,9               | 3,6                             | 1                            | 0,12    | *M12 - 115 (90)                        | 19               | 38     | 13               | 32  |
| 150           | 60 - 150   |  |                   |                                 |                              |         |  | 22               | 38     | 16               | 32  |
| 230           | 80 - 230   | 14,4                                       | 7,0               | 8,0                             | 1                            | 0,15    | *M14 - 180 (140)                       | 20               | 35(43) | 18               | 38  |
| 330           | 130 - 330  |  |                   |                                 |                              |         |  | 24               | 35(43) | 21               | 38  |
| 500           | 200 - 500  | 54   | 15,1              | 12                              | 1                            | 0,1     | *M14 - 180 (140)                       | 30               | 60(70) | 26               | 55  |
| 800           | 350 - 800  |  |                   |                                 |                              |         |  | 40               | 60(70) | 38               | 55  |
| 1000          | 500 - 1000                                       | 91   | 23,3              | 21                              | 1                            | 0,15    | M16 - 290                              | 42               | 60(70) | 39               | 90  |
| 2000          | 800 - 2000                                       |  |                   |                                 |                              |         |  | 50               | 90     | 39               | 90  |

(\*) note: reduced tightening torque for bigger hub bore diameter - see also  $\varnothing D1$  max!



Material:

safety part: heat treated steel  
 clamping hub: high tensile aluminium  
 (size 2000: tempered steel)  
 elastomer spider: polyurethane – 98 Shore-A  
 temperature range: -30°C up to +90°C



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

| SKW - EK   | $\varnothing a$ | $\varnothing b$ | $\varnothing c$ | g    | h  | k  | L $\pm 1$ | s   | t1   | t2   | w    |
|------------|-----------------|-----------------|-----------------|------|----|----|-----------|-----|------|------|------|
| 6/12       | 52,5            | 40              | 48              | 13   | 8  | 33 | 67        | 0,9 | 17   | 31   | 5,8  |
| 15/30/45   | 69              | 55              | 66              | 20   | 10 | 39 | 81,5      | 1,2 | 21   | 38   | 8,6  |
| 60/100/150 | 88              | 70              | 83              | 25   | 12 | 45 | 96        | 1,6 | 26,5 | 44,5 | 11,4 |
| 230/330    | 115             | 85              | 109             | 29   | 14 | 54 | 121       | 1,8 | 31   | 59,5 | 13,7 |
| 500/800    | 137             | 120             | 132             | 44   | 18 | 71 | 148,5     | 2,5 | 38   | 68,5 | 18,1 |
| 1000       | 181             | 120             | 185             | 44   | 18 | 72 | 170,5     | 3,7 | 38   | 90   | 40,4 |
| 2000       | 181             | 160             | 185             | 55,5 | 21 | 84 | 182,5     | 3,7 | 42   | 90   | 40,4 |

- notice:
- /// other shore-hardnesses of elastomer spider are possible on request
  - /// shaft bore of clamping hub „D1“ optionally with additional keyway
  - /// axial fixing of safety part optionally by additional snap ring

Ordering example: SKW - EK 60 - D1 =  $\varnothing 32^{G7}$  - D2 =  $\varnothing 24^{H7}$  - keyway 8P9 x 3,3 -  $T_{KA} = 55 \text{ Nm}$