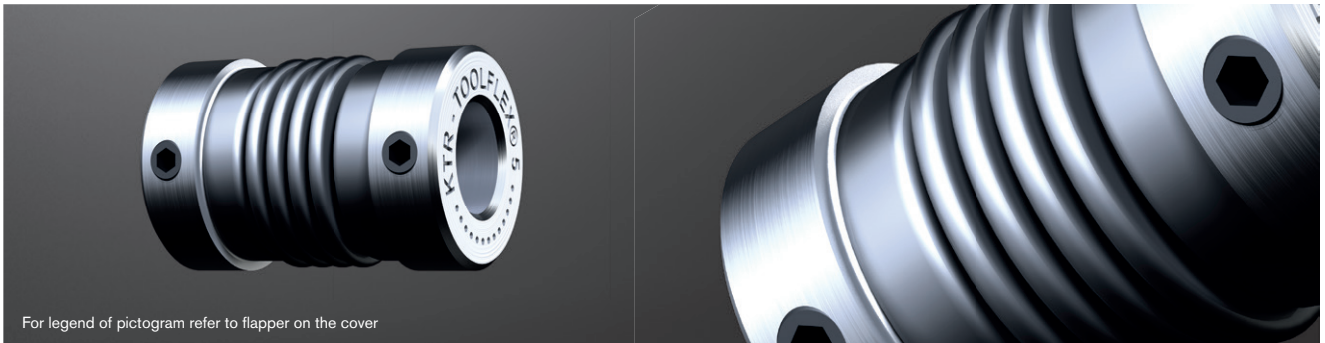


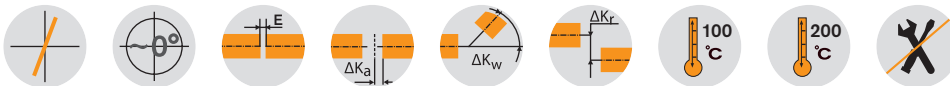
# TOOLFLEX® S

## Metal bellow-type couplings

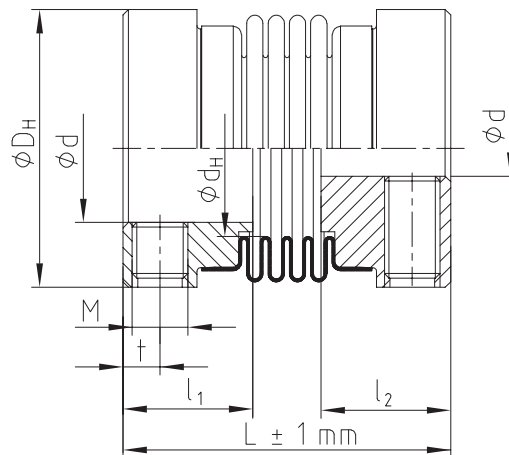
### Type S: Hubs with setscrews



For legend of pictogram refer to flapper on the cover



TOOLFLEX® S type 1.1



TOOLFLEX® S with setscrew (type 1.1) - Hub material aluminium/bellow material stainless steel

| Size | Bellow-hub-connection | Torque of bellow $T_{KN}$ <sup>1)</sup> [Nm] | Max. speed [rpm] | Dimensions [mm] |      |                |                |      |                                 |          |     |                          | Perm. displacements |             |                  | Torsion spring stiffness $C_T$ [Nm/rad] | Weight <sup>3)</sup> [kg] |
|------|-----------------------|----------------------------------------------|------------------|-----------------|------|----------------|----------------|------|---------------------------------|----------|-----|--------------------------|---------------------|-------------|------------------|-----------------------------------------|---------------------------|
|      |                       |                                              |                  | Finish bore d   |      | General        |                |      |                                 | Setscrew |     |                          |                     |             |                  |                                         |                           |
|      |                       |                                              |                  | Min.            | Max. | D <sub>H</sub> | d <sub>H</sub> | L    | l <sub>1</sub> , l <sub>2</sub> | M        | t   | z = number <sup>2)</sup> | Axial [mm]          | Radial [mm] | Angular [degree] |                                         |                           |
| 5    | 4)                    | 0.1                                          | 47700            | 2               | 5    | 10             | 6              | 15   | 6                               | M2       | 1.8 | 1                        | ±0.30               | 0.10        | 0.7              | 97                                      | 0.0027                    |
| 7    |                       | 1.0                                          | 31800            | 3               | 8    | 15             | 9              | 18   | 7                               | M3       | 2.0 | 1                        | ±0.30               | 0.10        | 0.7              | 390                                     | 0.005                     |
| 9    |                       | 1.5                                          | 23800            | 3               | 10   | 20             | 12             | 21   | 8                               | M3       | 2.2 | 2                        | ±0.35               | 0.15        | 1.0              | 750                                     | 0.010                     |
| 12   |                       | 2.0                                          | 19000            | 4               | 14   | 25             | 16             | 27.5 | 11                              | M4       | 2.8 | 2                        | ±0.40               | 0.15        | 1.0              | 1270                                    | 0.017                     |
| 16   | 5)                    | 5.0                                          | 14900            | 5               | 18   | 32             | 20             | 37   | 13                              | M5       | 4   | 2                        | ±0.30               | 0.15        | 1.0              | 4500                                    | 0.046                     |
| 20   |                       | 15                                           | 11900            | 6               | 25   | 40             | 27             | 42   | 15                              | M5       | 5   | 2                        | ±0.40               | 0.15        | 1.0              | 9600                                    | 0.076                     |

<sup>1)</sup> For selection see page 22 et seqq.

<sup>2)</sup> Number per hub; from size 9: 2 x 120° offset.

<sup>3)</sup> Figures refer to the complete coupling with max. bore.

<sup>4)</sup> Bonded

<sup>5)</sup> Flanged

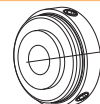
### Types of hubs

Type 1.0



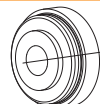
Hub with feather keyway and setscrew

Type 1.1



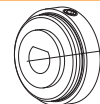
Hub without feather keyway, with setscrew

Type 1.2



Hub without feather keyway, without setscrew

Type 1.3



Hub with spline bore

Ordering example:

| TOOLFLEX® 7 S             | 1.1 - Ø4 |             | 1.1 - Ø6 |             |
|---------------------------|----------|-------------|----------|-------------|
| Size and type of coupling | Hub type | Finish bore | Hub type | Finish bore |