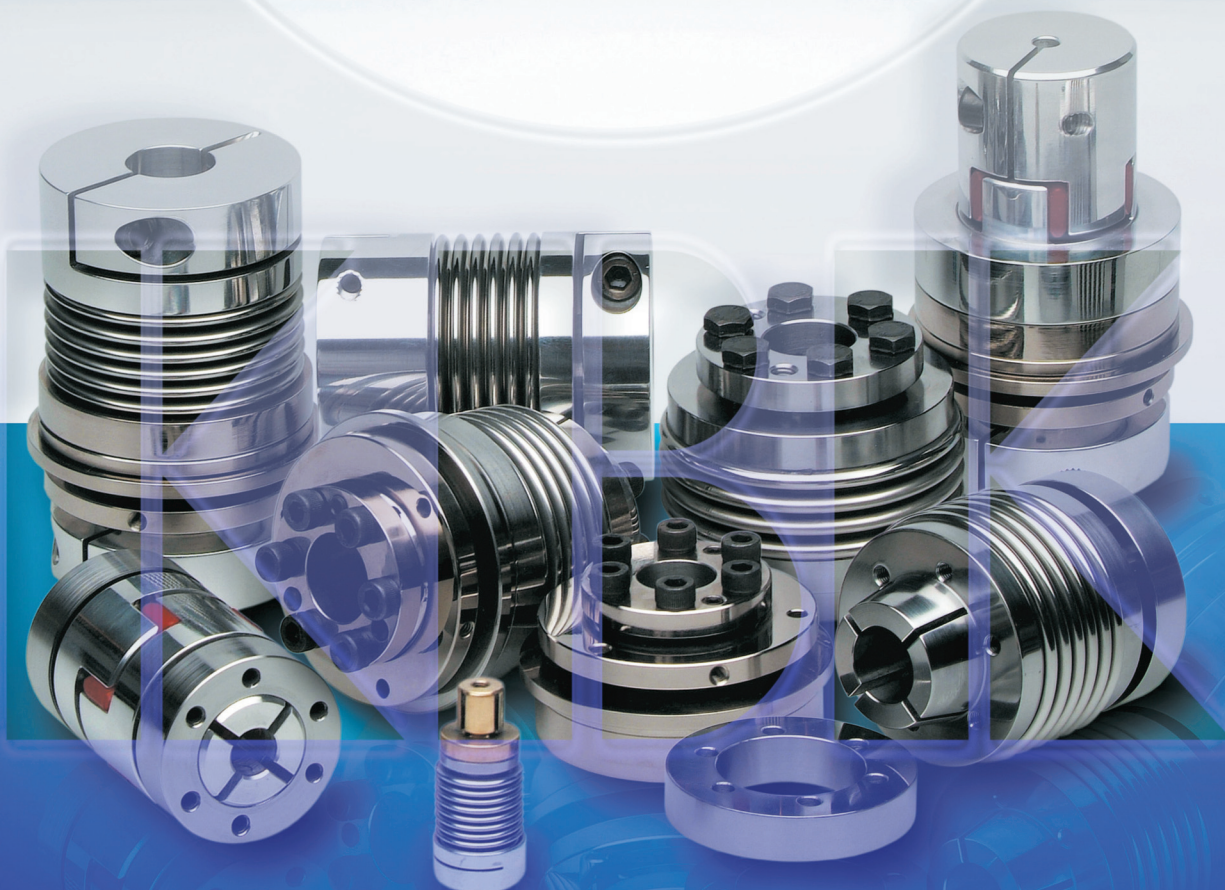
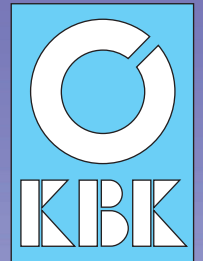


# Metal Bellows Couplings Safety Couplings Servo Insert Couplings





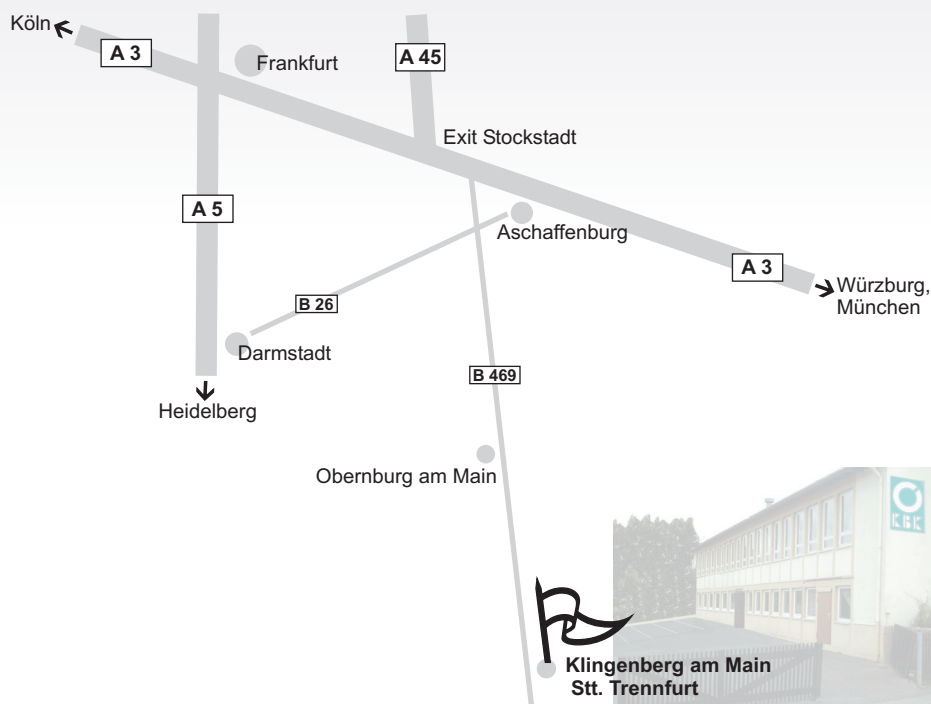
# KBK – The Company

KBK Antriebstechnik GmbH was founded in July 2003.

The vision of manufacturing high quality products “made in Germany” at competitive prices made us become the supplier of a steadily growing number of satisfied customers.

KBK products are the result of over twenty years experience in developing and manufacturing couplings and locking devices.

Our manufacturing facilities are located only 50 minutes from Frankfurt International Airport, which enables us to provide worldwide short and punctual deliveries.



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with Set Screws



## KB2/1~100

Metal Bellows Coupling  
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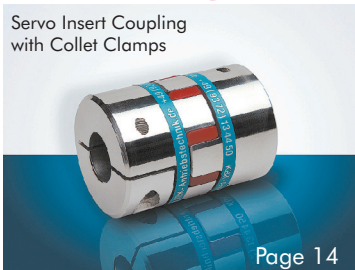
## KBE1-7~65

Servo Insert Coupling  
with Set Screw



## KBE2-7~48

Servo Insert Coupling  
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Servo Insert coupling  
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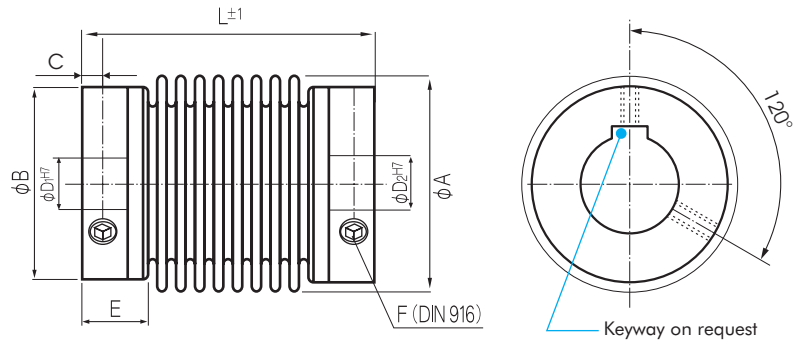


## Locking Devices

- Locking Devices
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### Metal Bellows Coupling



**Order Code: KB 1 / 45 - 40 - 10 - 18 - S**

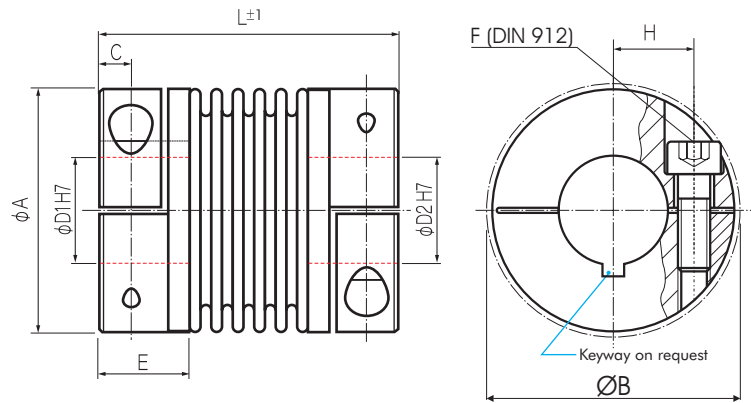
Type / Size      Length L      Ø D1 (H7)      Ø D2 (H7)      Options

|         | Torque<br>T <sub>KN</sub><br>(Nm) | Dimensions (mm) |         |                              |       |                |   |   | Technical Ratings |  |                                    |                                   |                                   |                                  |                                   |     |
|---------|-----------------------------------|-----------------|---------|------------------------------|-------|----------------|---|---|-------------------|--|------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-----|
|         |                                   | L               | Ø A     | D1/D2                        | Ø B   | C              | E   | F                                       | Mass<br>(g)       | Moment of Inertia<br>J<br>(g cm <sup>2</sup> ) | Spring Stiffness                   |                                   |                                   | Misalignment                     |                                   |     |
|         |                                   | Length (±1)     | Outer Ø | Bore Sizes (H7)<br>min ~ max | Hub Ø | Hub-<br>Length | Screw<br>(DIN 916)<br>T <sub>A</sub> (Nm) | torsional<br>C <sub>T</sub><br>(Nm/rad) |                   |  | radial<br>C <sub>R</sub><br>(N/mm) | axial<br>C <sub>A</sub><br>(N/mm) | radial<br>ΔK <sub>r</sub><br>(mm) | axial<br>ΔK <sub>a</sub><br>(mm) | angular<br>ΔK <sub>w</sub><br>(°) |     |
| KB1/1   | 0.1                               | 23              | 10      | 1-4<br>3*                    | 10    | 2              | 6   | M3<br>0.5                               | 3                 | 0.45   | 65                                 | 10                                | 14                                | 0.12                             | 0.2                               | 1.2 |
| KB1/5   | 0.5                               | 19              | 15      | 3-8<br>6*                    | 13.5  | 2              | 6   | M3                                      | 4                 | 1.3  | 260                                | 43                                | 13                                | 0.1                              | 0.2                               | 1   |
|         |                                   | 0.5             |         |                              |       |                |   | 4.5                                     | 1.5               | 200  | 18                                 | 10                                | 0.15                              | 0.3                              | 1.5                               |     |
|         |                                   | 0.5             |         |                              |       |                |   | 5                                       | 1.6               | 160  | 9                                  | 8                                 | 0.2                               | 0.4                              | 2                                 |     |
| KB1/10  | 1                                 | 21              | 15      | 3-8<br>6*                    | 13.5  | 2              | 6   | M3                                      | 5.5               | 1.8  | 510                                | 74                                | 27                                | 0.1                              | 0.2                               | 1   |
|         |                                   | 0.5             |         |                              |       |                |   | 6                                       | 2                 | 380  | 31                                 | 20                                | 0.15                              | 0.3                              | 1.5                               |     |
|         |                                   | 0.5             |         |                              |       |                |   | 7                                       | 2.3               | 310  | 16                                 | 16                                | 0.2                               | 0.4                              | 2                                 |     |
| KB1/15  | 1.5                               | 26              | 19      | 3-12<br>6*                   | 19    | 3              | 8   | M4                                      | 10                | 6  | 750                                | 59                                | 15                                | 0.1                              | 0.3                               | 1.5 |
|         |                                   | 0.5             |         |                              |       |                |   | 12                                      | 7.4               | 700  | 20                                 | 9                                 | 0.15                              | 0.4                              | 2                                 |     |
| KB1/20  | 2                                 | 22              | 24      | 3-14<br>6/10*                | 21.5  | 3              | 6   | M4                                      | 11                | 9.2  | 1500                               | 67                                | 12                                | 0.15                             | 0.3                               | 1.5 |
|         |                                   | 0.5             |         |                              |       |                |   | 13                                      | 12.6              | 1300   | 21                                 | 11                                | 0.2                               | 0.4                              | 1.5                               |     |
|         |                                   | 0.5             |         |                              |       |                |   | 15                                      | 13.5              | 1050   | 11                                 | 9                                 | 0.25                              | 0.5                              | 2                                 |     |
| KB1/45  | 4.5                               | 40              | 32      | 6-18<br>10*                  | 29    | 4              | 12  | M6                                      | 44                | 68   | 6500                               | 168                               | 32                                | 0.1                              | 0.3                               | 1.5 |
|         |                                   | 0.5             |         |                              |       |                |   | 3                                       | 50                | 79   | 4200                               | 41                                | 20                                | 0.2                              | 0.5                               | 2   |
| KB1/100 | 10                                | 45              | 40      | 6-24<br>10*                  | 36    | 4              | 12  | M6                                      | 60                | 150  | 8100                               | 120                               | 27                                | 0.15                             | 0.4                               | 1.5 |
|         |                                   | 0.5             |         |                              |       |                |   | 3                                       | 79                | 210  | 6800                               | 29                                | 17                                | 0.3                              | 0.6                               | 2   |

\*Standard Bore Sizes (H7)

- ⊙ Speed: max. 15000 min<sup>-1</sup>
- ⊙ Hub: Bore Tolerance: H7      Keyway acc. DIN 6885 optional
- ⊙ Material: Bellows - Stainless Steel  
Hub - Aluminium (also available in Stainless Steel)
- ⊙ Temperature Range: -30° ~ 120° C

### Metal Bellows Coupling



**Order Code: KB 2 / 45 - 50 - 10 - 16 - S**

Type / Size      Length L      Ø D1 (H7)      Ø D2 (H7)      Options

|         | Torque<br>TKN<br>(Nm) | Dimensions (mm)     |                   |  |      |     |                  |                     |                                    | Technical Ratings |  |                             |                        |                       |                       |                      |                       |
|---------|-----------------------|---------------------|-------------------|--|------|-----|------------------|---------------------|------------------------------------|-------------------|--|-----------------------------|------------------------|-----------------------|-----------------------|----------------------|-----------------------|
|         |                       | L<br>Length<br>(±1) | Ø A<br>Outer<br>Ø | D1/D2<br>Bore Sizes<br>(H7)<br>min ~ max | H    | C   | Ø B<br>Max.<br>Ø | E<br>Hub-<br>length | F<br>Screw<br>(DIN 912)<br>TA (Nm) | Mass<br>(g)       | Moment<br>of<br>Inertia<br>J<br>(g cm <sup>2</sup> ) | Spring Stiffness            |                        |                       | Misalignment          |                      |                       |
|         |                       |                     |                   |  |      |     |                  |                     |                                    |                   |  | torsional<br>CT<br>(Nm/rad) | radial<br>CR<br>(N/mm) | axial<br>CA<br>(N/mm) | radial<br>ΔKr<br>(mm) | axial<br>ΔKa<br>(mm) | angular<br>ΔKw<br>(°) |
| KB2/1   | 0.1                   | 25                  | 10                | 1-4<br>3*                                | 3.4  | 2   | 11               | 7                   | M1.6<br>0.1                        | 3                 | 0.5  | 65                          | 10                     | 14                    | 0.12                  | 0.2                  | 1.2                   |
| KB2/5   | 0.5                   | 21                  | 15.5              | 3-7<br>6*                                | 5.2  | 2.5 | 17.5             | 8                   | M2                                 | 7.5               | 2.7  | 260                         | 43                     | 13                    | 0.1                   | 0.2                  | 1                     |
|         |                       |                     |                   |  |      |     |                  |                     | 7.8                                | 2.8               | 200  | 18                          | 10                     | 0.15                  | 0.3                   | 1.5                  |                       |
|         |                       | 0.43                |                   |  |      |     |                  |                     | 8.2                                | 3                 | 160  | 9                           | 8                      | 0.2                   | 0.4                   | 2                    |                       |
| KB2/10  | 1                     | 23                  | 15.5              | 3-8<br>6*                                | 5.2  | 2.5 | 17.5             | 8                   | M2                                 | 9                 | 3.1  | 510                         | 74                     | 27                    | 0.1                   | 0.2                  | 1                     |
|         |                       |                     |                   |  |      |     |                  |                     | 9.3                                | 3.4               | 380  | 31                          | 20                     | 0.15                  | 0.3                   | 1.5                  |                       |
|         |                       | 0.43                |                   |  |      |     |                  |                     | 10                                 | 3.7               | 310  | 16                          | 16                     | 0.2                   | 0.4                   | 2                    |                       |
| KB2/15  | 1.5                   | 26                  | 20                | 3-10<br>6*                               | 7    | 3   | 21               | 9                   | M2.5                               | 13                | 8  | 750                         | 59                     | 15                    | 0.1                   | 0.3                  | 1.5                   |
|         |                       | 0.85                |                   |  |      |     |                  |                     | 15                                 | 9.3               | 700  | 20                          | 9                      | 0.15                  | 0.4                   | 2                    |                       |
| KB2/20  | 2                     | 32                  | 25                | 3-14<br>6/10*                            | 9    | 3.5 | 27               | 11                  | M3                                 | 29                | 24   | 1500                        | 67                     | 12                    | 0.15                  | 0.3                  | 1.5                   |
|         |                       |                     |                   |  |      |     |                  |                     | 32                                 | 27                | 1300   | 21                          | 11                     | 0.2                   | 0.4                   | 1.5                  |                       |
|         |                       | 2                   |                   |  |      |     |                  |                     | 33                                 | 29                | 1050   | 11                          | 9                      | 0.25                  | 0.5                   | 2                    |                       |
| KB2/45  | 4.5                   | 41                  | 32.5              | 6-16<br>10*                              | 12   | 5   | 34               | 14                  | M4                                 | 61                | 100  | 6500                        | 168                    | 32                    | 0.1                   | 0.3                  | 1.5                   |
|         |                       | 3.5                 |                   |  |      |     |                  |                     | 67                                 | 112               | 4200   | 41                          | 20                     | 0.2                   | 0.5                   | 2                    |                       |
| KB2/100 | 10                    | 48                  | 40.5              | 6-22<br>10*                              | 15.5 | 5   | 41.5             | 14                  | M4                                 | 86                | 233  | 8100                        | 120                    | 27                    | 0.15                  | 0.4                  | 1.5                   |
|         |                       | 4.5                 |                   |  |      |     |                  |                     | 106                                | 290               | 6800   | 29                          | 17                     | 0.3                   | 0.6                   | 2                    |                       |

\*Standard Bore Sizes (H7)

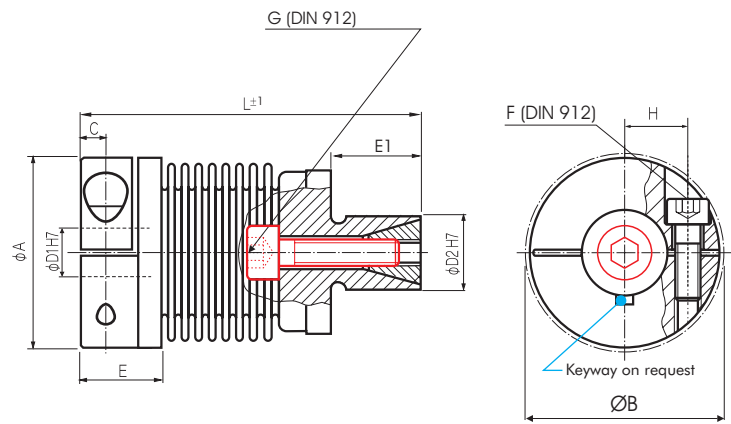
Speed: max. 15000 min<sup>-1</sup>

Hub: Bore Tolerance: H7      Keyway acc. DIN 6885 optional

Material: Bellows - Stainless Steel  
Hub - Aluminium (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C

### Metal Bellows Coupling



**Order Code: KB 3 / 45 - 52 - 10 - S**

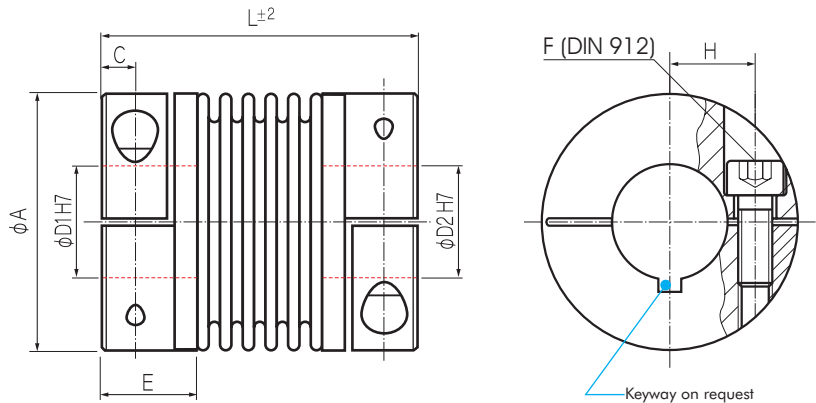
Type / Size      Length L      Ø D1      Options  
(H7)

|         | Torque<br>TKN<br>(Nm) | Dimensions (mm) |            |                                 |                   |           |      |     |    |    |                               | Technical Ratings |  |                             |                        |                       |                       |                      |                       |
|---------|-----------------------|-----------------|------------|---------------------------------|-------------------|-----------|------|-----|----|----|-------------------------------|-------------------|--|-----------------------------|------------------------|-----------------------|-----------------------|----------------------|-----------------------|
|         |                       | L               | Ø A        | D1                              | D2                | Ø B       | H    | C   | E  | E1 | F/G                           | Mass<br>(g)       | Moment of Inertia<br>J<br>(g cm <sup>2</sup> ) | Spring Stiffness            |                        |                       | Misalignment          |                      |                       |
|         |                       | Length<br>(±1)  | Outer<br>Ø | Bore Sizes<br>(H7)<br>min ~ max | Bore Size<br>(H7) | Max.<br>Ø |      |     |    |    | Screw<br>(DIN 912)<br>TA (Nm) |                   |  | torsional<br>CT<br>(Nm/rad) | radial<br>CR<br>(N/mm) | axial<br>CA<br>(N/mm) | radial<br>ΔKr<br>(mm) | axial<br>ΔKa<br>(mm) | angular<br>ΔKw<br>(°) |
| KB3/5   | 0.5                   | 28              | 15.5       | 3-7                             | 8                 | 17,5      | 5.2  | 2.5 | 8  | 8  | M2/M3                         | 12.8              | 2.9  | 260                         | 43                     | 13                    | 0.1                   | 0.2                  | 1                     |
|         |                       | 32              |            | 3*                              |                   |           |      |     |    |    | 0.3/1                         | 13.2              | 3.1  | 200                         | 18                     | 10                    | 0.15                  | 0.3                  | 1.5                   |
|         |                       | 35              |            |                                 |                   |           |      |     |    |    |                               | 13.5              | 3.2  | 160                         | 9                      | 8                     | 0.2                   | 0.4                  | 2                     |
| KB3/10  | 1                     | 30              | 15.5       | 3-7                             | 8                 | 17,5      | 5.2  | 2.5 | 8  | 8  | M2/M3                         | 14.1              | 3.3  | 510                         | 74                     | 27                    | 0.1                   | 0.2                  | 1                     |
|         |                       | 34              |            | 6*                              |                   |           |      |     |    |    | 0.3/1                         | 14.6              | 3.4  | 380                         | 31                     | 20                    | 0.15                  | 0.3                  | 1.5                   |
|         |                       | 38              |            |                                 |                   |           |      |     |    |    |                               | 15.3              | 3.6  | 310                         | 16                     | 16                    | 0.2                   | 0.4                  | 2                     |
| KB3/15  | 1.5                   | 37              | 20         | 3-10                            | 10                | 21        | 7    | 3   | 9  | 12 | M2.5/M4                       | 27.2              | 11   | 750                         | 59                     | 15                    | 0.1                   | 0.3                  | 1.5                   |
|         |                       | 41              |            | 6*                              |                   |           |      |     |    |    | 0.8/3                         | 29.3              | 12   | 700                         | 20                     | 9                     | 0.15                  | 0.4                  | 2                     |
| KB3/20  | 2                     | 40              | 25         | 3-12.7                          | 10                | 27        | 9    | 3.5 | 11 | 12 | M3/M4                         | 40.1              | 25   | 1500                        | 67                     | 12                    | 0.15                  | 0.3                  | 1.5                   |
|         |                       | 46              |            | 6/10*                           |                   |           |      |     |    |    | 1/3                           | 43.2              | 29   | 1300                        | 21                     | 11                    | 0.2                   | 0.4                  | 1.5                   |
|         |                       | 50              |            |                                 |                   |           |      |     |    |    |                               | 49.1              | 30   | 1050                        | 11                     | 9                     | 0.25                  | 0.5                  | 2                     |
| KB3/45  | 4.5                   | 52              | 32.5       | 6-16                            | 14                | 34        | 12   | 5   | 14 | 16 | M4/M5                         | 86.5              | 98   | 6500                        | 168                    | 32                    | 0.1                   | 0.3                  | 1.5                   |
|         |                       | 60              |            | 10*                             |                   |           |      |     |    |    | 3/5.9                         | 92.9              | 110  | 4200                        | 41                     | 20                    | 0.2                   | 0.5                  | 2                     |
| KB3/100 | 10                    | 61              | 40.5       | 6-22                            | 16                | 41,5      | 15.5 | 5   | 14 | 20 | M4/M6                         | 135               | 235  | 8100                        | 120                    | 27                    | 0.15                  | 0.4                  | 1.5                   |
|         |                       | 71              |            | 10*                             |                   |           |      |     |    |    | 3/10                          | 154               | 292  | 6800                        | 29                     | 17                    | 0.3                   | 0.6                  | 2                     |

\*Standard Bore Sizes (H7)

- ⊙ Speed: max. 15000 min<sup>-1</sup>
- ⊙ Hub: Bore Tolerance: H7      Keyway acc. DIN 6885 optional
- ⊙ Material: Bellows - Stainless Steel  
Hub - Aluminium (also available in Stainless Steel)
- ⊙ Temperature Range: -30° ~ 120° C

### Metal Bellows Coupling



**Order Code: KB 4 / 60 - 89 - 12 - 32 - S**

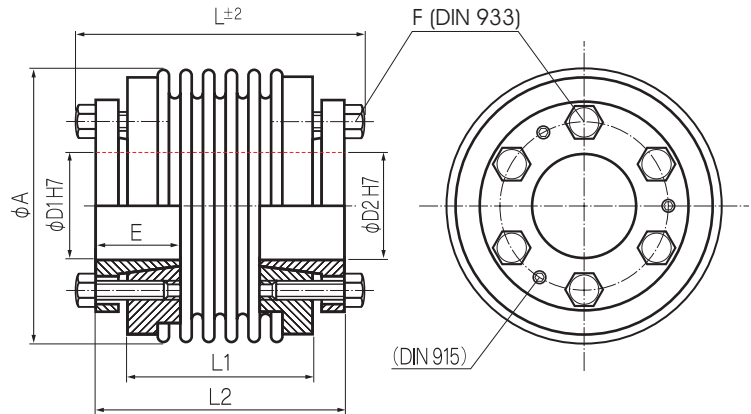
Type / Size      Length      Ø D1 (H7)      Ø D2 (H7)      Options

|         | Torque<br>T <sub>KN</sub><br>(Nm) | Dimensions (mm) |         |                 |    |     |      |  | Technical Ratings |   |                                      |                                 |                                |                                |                               |                                |                  |
|---------|-----------------------------------|-----------------|---------|-----------------|----|-----|------|--|-------------------|---|--------------------------------------|---------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|------------------|
|         |                                   | L               | Ø A     | D1/D2           | H  | C   | E    | F                                      | Mass<br>(kg)      | Moment of Inertia J<br>(kg m <sup>2</sup> ) | Spring Stiffness                     |                                 |                                | Misalignment                   |                               |                                | max Speed<br>rpm |
|         |                                   | Length (±2)     | Outer Ø | Bore Sizes (H7) |    |     |      | Screw (DIN 912)<br>T <sub>A</sub> (Nm) |                   |   | torsional C <sub>T</sub><br>(Nm/rad) | radial C <sub>R</sub><br>(N/mm) | axial C <sub>A</sub><br>(N/mm) | radial ΔK <sub>r</sub><br>(mm) | axial ΔK <sub>a</sub><br>(mm) | angular ΔK <sub>w</sub><br>(°) |                  |
| KB4/18  | 18                                | 63              | 45      | 10-25.4         | 17 | 5.5 | 19.5 | M5                                     | 0.1               | 0.04  | 20                                   | 205                             | 50                             | 0.2                            | 0.5                           | 1.5                            | 12800            |
|         |                                   | 71              |         |                 |    |     |      | 8                                      | 0.15              | 0.05  | 15                                   | 82                              | 36                             | 0.25                           | 0.5                           | 2                              | 12800            |
| KB4/30  | 30                                | 65              | 56      | 10-30           | 20 | 7.5 | 24.5 | M6                                     | 0.3               | 0.15  | 38                                   | 720                             | 50                             | 0.15                           | 0.6                           | 1.5                            | 10300            |
|         |                                   | 73              |         |                 |    |     |      | 15                                     | 0.32              | 0.16  | 28                                   | 225                             | 28                             | 0.25                           | 1                             | 2                              | 10300            |
| KB4/60  | 60                                | 79              | 66      | 12-32           | 23 | 10  | 29   | M8                                     | 0.5               | 0.33  | 75                                   | 1150                            | 90                             | 0.15                           | 0.6                           | 1.5                            | 8700             |
|         |                                   | 89              |         |                 |    |     |      | 40                                     | 0.6               | 0.36  | 50                                   | 340                             | 50                             | 0.25                           | 1                             | 2                              | 8700             |
| KB4/80  | 80                                | 91              | 82      | 14-42           | 28 | 11  | 33.5 | M10                                    | 2.3               | 2   | 128                                  | 1200                            | 80                             | 0.2                            | 0.5                           | 1.5                            | 6900             |
|         |                                   | 102             |         |                 |    |     |      | 72                                     | 2.4               | 2.1   | 75                                   | 400                             | 50                             | 0.25                           | 0.8                           | 2                              | 6900             |
| KB4/150 | 150                               | 91              | 82      | 19-42           | 28 | 11  | 33.5 | M10                                    | 2.3               | 2   | 155                                  | 2020                            | 145                            | 0.2                            | 0.5                           | 1.5                            | 6900             |
|         |                                   | 102             |         |                 |    |     |      | 84                                     | 2.4               | 2.1   | 105                                  | 595                             | 85                             | 0.25                           | 0.5                           | 2                              | 6900             |
| KB4/200 | 200                               | 101             | 90      | 22-45           | 31 | 13  | 38   | M12                                    | 2.6               | 3.3   | 175                                  | 2500                            | 145                            | 0.2                            | 0.5                           | 1.5                            | 6400             |
|         |                                   | 113             |         |                 |    |     |      | 125                                    | 2.7               | 3.5   | 120                                  | 460                             | 82                             | 0.25                           | 0.8                           | 2                              | 6400             |
| KB4/300 | 300                               | 105             | 110     | 30-60           | 39 | 13  | 38   | M12                                    | 3.6               | 7.3   | 502                                  | 6300                            | 280                            | 0.2                            | 0.5                           | 1.5                            | 6000             |
|         |                                   | 116             |         |                 |    |     |      | 145                                    | 3.7               | 7.5   | 285                                  | 1400                            | 145                            | 0.25                           | 0.8                           | 2                              | 6000             |
| KB4/500 | 500                               | 112             | 122     | 35-65           | 42 | 15  | 42   | M12                                    | 5.1               | 12.4  | 690                                  | 7790                            | 100                            | 0.2                            | 0.5                           | 1.5                            | 5000             |
|         |                                   | 123             |         |                 |    |     |      | 145                                    | 5.2               | 12.7  | 320                                  | 970                             | 85                             | 0.25                           | 1                             | 2                              | 5000             |

Material: Bellows - Stainless Steel  
 Hub (KB4/18, KB4/30, KB4/60) Aluminium (also available in Stainless Steel)  
 Hub (KB4/80, KB4/150, KB4/200, KB4/300, KB4/500) Steel (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C

### Metal Bellows Coupling



**Order Code: KB 5 / 60 - 73 - 20 - 25 - S**

Type / Size      Length      Ø D1 (H7)      Ø D2 (H7)      Options

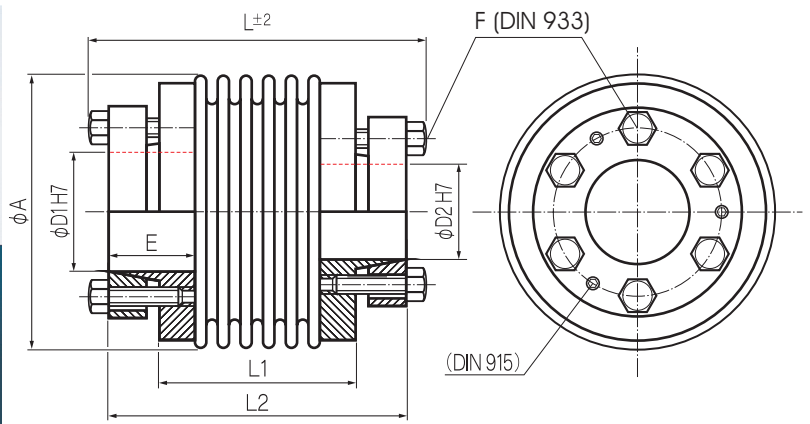
|                 | Torque<br>T <sub>KN</sub><br>(Nm) | Dimensions (mm) |         |                |            |     |     |  | Technical Ratings |   |                                      |                                 |                                |                                |                               |                                |
|-----------------|-----------------------------------|-----------------|---------|----------------|------------|-----|-----|--|-------------------|---|--------------------------------------|---------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|
|                 |                                   | L               | Ø A     | D1/D2          | E          | L1  | L2  | F                                      | Mass<br>(kg)      | Moment of Inertia J<br>(kg m <sup>2</sup> ) | Spring Stiffness                     |                                 |                                | Misalignment                   |                               |                                |
|                 |                                   | Length (±2)     | Outer Ø | Bore Size (H7) | Hub Length |     |     | Screw (DIN 933)<br>T <sub>A</sub> (Nm) |                   |   | torsional C <sub>T</sub><br>(Nm/rad) | radial C <sub>R</sub><br>(N/mm) | axial C <sub>A</sub><br>(N/mm) | radial ΔK <sub>r</sub><br>(mm) | axial ΔK <sub>a</sub><br>(mm) | angular ΔK <sub>w</sub><br>(°) |
| <b>KB5/18</b>   | 18                                | 63              | 47      | 10-18          | 20         | 38  | 56  | 4xM5                                   | 0.36              | 0.075                                       | 20                                   | 205                             | 50                             | 0.2                            | 1                             | 1.5                            |
|                 |                                   | 71              |         |                |            | 46  | 64  | 4.5                                    | 0.37              | 0.078                                       | 15                                   | 82                              | 36                             | 0.25                           | 1                             | 2                              |
| <b>KB5/30</b>   | 30                                | 53              | 56      | 12-20          | 20         | 30  | 46  | 6xM5                                   | 0.4               | 0.11  | 38                                   | 720                             | 50                             | 0.15                           | 1                             | 1.5                            |
|                 |                                   | 61              |         |                |            | 38  | 54  | 4.5                                    | 0.42              | 0.12  | 28                                   | 225                             | 25                             | 0.25                           | 1                             | 2                              |
| <b>KB5/60</b>   | 60                                | 62              | 66      | 15-25          | 25         | 36  | 54  | 6xM6                                   | 0.77              | 0.32  | 75                                   | 1150                            | 90                             | 0.15                           | 1                             | 1.5                            |
|                 |                                   | 73              |         |                |            | 47  | 65  | 8.5                                    | 0.79              | 0.34  | 50                                   | 340                             | 50                             | 0.25                           | 1                             | 2                              |
| <b>KB5/80</b>   | 80                                | 78              | 82      | 20-35          | 30         | 50  | 70  | 6xM6                                   | 1.34              | 1.05  | 128                                  | 1200                            | 80                             | 0.2                            | 1                             | 1.5                            |
|                 |                                   | 90              |         |                |            | 62  | 82  | 10                                     | 1.39              | 1.11  | 75                                   | 400                             | 50                             | 0.25                           | 1                             | 2                              |
| <b>KB5/150</b>  | 150                               | 78              | 82      | 20-35          | 30         | 50  | 70  | 6xM6                                   | 1.36              | 1.15  | 155                                  | 2020                            | 145                            | 0.2                            | 1                             | 1.5                            |
|                 |                                   | 90              |         |                |            | 62  | 82  | 15                                     | 1.41              | 1.21  | 105                                  | 595                             | 85                             | 0.25                           | 1                             | 2                              |
| <b>KB5/200</b>  | 200                               | 78              | 90      | 20-40          | 30         | 50  | 70  | 6xM6                                   | 1.59              | 1.39  | 175                                  | 2500                            | 145                            | 0.2                            | 1                             | 1.5                            |
|                 |                                   | 91              |         |                |            | 63  | 83  | 15                                     | 1.66              | 1.49  | 120                                  | 460                             | 82                             | 0.25                           | 1                             | 2                              |
| <b>KB5/300</b>  | 300                               | 90              | 110     | 25-50          | 37         | 56  | 80  | 6xM8                                   | 3.26              | 4.66  | 502                                  | 6300                            | 280                            | 0.2                            | 1                             | 1.5                            |
|                 |                                   | 102             |         |                |            | 67  | 91  | 17                                     | 3.32              | 4.81  | 285                                  | 1400                            | 145                            | 0.25                           | 1                             | 2                              |
| <b>KB5/500</b>  | 500                               | 101             | 122     | 35-55          | 40         | 66  | 90  | 6xM8                                   | 3.78              | 6.11  | 690                                  | 7790                            | 100                            | 0.2                            | 1                             | 1.5                            |
|                 |                                   | 112             |         |                |            | 77  | 101 | 25                                     | 3.87              | 6.38  | 320                                  | 970                             | 85                             | 0.25                           | 1                             | 2                              |
| <b>KB5/800</b>  | 800                               | 170             | 157     | 50-70          | 60         | 110 | 150 | 6xM16<br>45                            | 9.05              | 24.05                                       | 760                                  | 500                             | 185                            | 0.2                            | 1                             | 1.8                            |
| <b>KB5/1400</b> | 1400                              | 170             | 157     | 50-70          | 60         | 110 | 150 | 6xM16<br>80                            | 9.15              | 24.2  | 1270                                 | 700                             | 275                            | 0.2                            | 1                             | 1.8                            |
| <b>KB5/3000</b> | 3000                              | 170             | 157     | 55-75          | 60         | 110 | 150 | 6xM16<br>115                           | 9.43              | 25.7  | 2810                                 | 2945                            | 305                            | 0.2                            | 1                             | 1.5                            |
| <b>KB5/5000</b> | 5000                              | 206             | 208     | 60-90          | 65         | 146 | 186 | 6xM16<br>210                           | 19.9              | 96.7  | 4810                                 | 4915                            | 505                            | 0.2                            | 1                             | 1.5                            |

Material: Bellows - Stainless Steel      Hub - Steel (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C



### Metal Bellows Coupling



**Order Code: KB 6 / 60 - 78 - 20 - 32 - S**

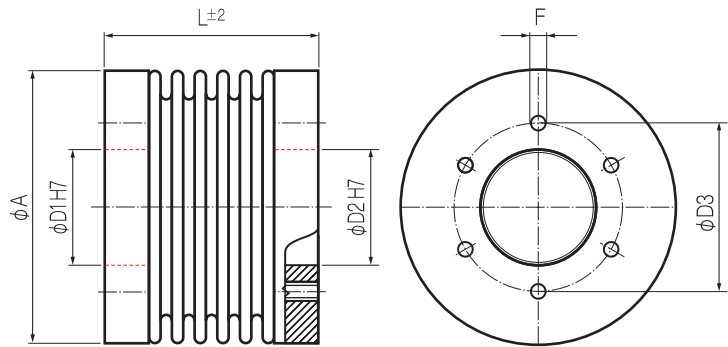
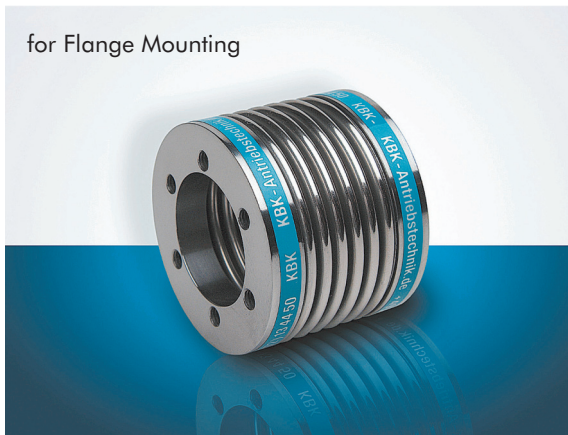
Type / Size      Length      Ø D1 (H7)      Ø D2 (H7)      Options

|          | Torque<br>$T_{KN}$<br>(Nm) | Dimensions (mm) |         |                   |            |     |     |                                  | Technical Ratings |  |                                |                           |                          |                                |                               |                                |
|----------|----------------------------|-----------------|---------|-------------------|------------|-----|-----|----------------------------------|-------------------|--|--------------------------------|---------------------------|--------------------------|--------------------------------|-------------------------------|--------------------------------|
|          |                            | L               | Ø A     | D1/D2             | E          | L1  | L2  | F                                | Mass<br>(kg)      | Moment of Inertia<br>J<br>(kg m <sup>2</sup> ) | Spring Stiffness               |                           |                          | Misalignment                   |                               |                                |
|          |                            | Length<br>(±2)  | Outer Ø | Bore Size<br>(H7) | Hub Length |     |     | Screw<br>(DIN 933)<br>$T_A$ (Nm) |                   |  | torsional<br>$C_T$<br>(Nm/rad) | radial<br>$C_R$<br>(N/mm) | axial<br>$C_A$<br>(N/mm) | radial<br>$\Delta K_r$<br>(mm) | axial<br>$\Delta K_a$<br>(mm) | angular<br>$\Delta K_w$<br>(°) |
| KB6/18   | 18                         | 65              | 47      | 8-15              | 16.5       | 37  | 58  | 4x M5                            | 0.3               | 0.081  | 20                             | 205                       | 50                       | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 73              |         |                   |            | 45  | 66  | 5.9                              | 0.31              | 0.084  | 15                             | 82                        | 36                       | 0.25                           | 0.5                           | 2                              |
| KB6/30   | 30                         | 60              | 56      | 12-20             | 18         | 31  | 53  | 6x M5                            | 0.37              | 0.13   | 38                             | 720                       | 50                       | 0.15                           | 0.6                           | 1.5                            |
|          |                            | 68              |         |                   |            | 39  | 61  | 5.9                              | 0.39              | 0.14   | 28                             | 225                       | 25                       | 0.25                           | 1                             | 2                              |
| KB6/60   | 60                         | 78              | 66      | 15-32             | 25         | 36  | 71  | 6x M5                            | 0.76              | 0.46   | 75                             | 1150                      | 90                       | 0.15                           | 0.6                           | 1.5                            |
|          |                            | 89              |         |                   |            | 47  | 82  | 8.7                              | 0.79              | 0.49   | 50                             | 340                       | 50                       | 0.25                           | 1                             | 2                              |
| KB6/80   | 80                         | 95              | 82      | 20-35             | 31         | 50  | 87  | 6x M6                            | 1.57              | 1.37   | 128                            | 1200                      | 80                       | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 107             |         |                   |            | 62  | 99  | 15                               | 1.62              | 1.43   | 75                             | 400                       | 50                       | 0.25                           | 1                             | 2                              |
| KB6/150  | 150                        | 95              | 82      | 20-35             | 31         | 50  | 87  | 6x M6                            | 1.59              | 1.39   | 155                            | 2020                      | 145                      | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 107             |         |                   |            | 62  | 99  | 15                               | 1.64              | 1.45   | 105                            | 595                       | 85                       | 0.25                           | 1                             | 2                              |
| KB6/200  | 200                        | 95              | 90      | 20-42             | 31         | 50  | 87  | 6x M6                            | 1.6               | 1.64   | 175                            | 2500                      | 145                      | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 108             |         |                   |            | 63  | 100 | 15                               | 1.67              | 1.74   | 120                            | 460                       | 82                       | 0.25                           | 1                             | 2                              |
| KB6/300  | 300                        | 108             | 110     | 25-50             | 34         | 57  | 98  | 6x M8                            | 2.83              | 4.52   | 502                            | 6300                      | 280                      | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 120             |         |                   |            | 68  | 109 | 25                               | 2.89              | 4.68   | 285                            | 1400                      | 145                      | 0.25                           | 1                             | 2                              |
| KB6/500  | 500                        | 122             | 122     | 35-55             | 41         | 59  | 112 | 6x M8                            | 3.89              | 7.04   | 690                            | 7790                      | 100                      | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 134             |         |                   |            | 70  | 123 | 36                               | 3.98              | 7.31   | 320                            | 970                       | 85                       | 0.25                           | 1                             | 2                              |
| KB6/800  | 800                        | 184             | 157     | 50-70             | 50         | 108 | 169 | 6x M12<br>85                     | 8.87              | 24.9   | 760                            | 500                       | 185                      | 0.2                            | 0.8                           | 1.8                            |
| KB6/1400 | 1400                       | 184             | 157     | 50-70             | 50         | 108 | 169 | 6x M12<br>115                    | 8.92              | 25.2   | 1270                           | 700                       | 275                      | 0.2                            | 0.8                           | 1.8                            |
| KB6/3000 | 3000                       | 220             | 157     | 55-75             | 60         | 146 | 204 | 6x M12<br>125                    | 10.9              | 30.9   | 2810                           | 2945                      | 305                      | 0.2                            | 0.8                           | 1.5                            |
| KB6/5000 | 5000                       | 245             | 208     | 60-90             | 55         | 146 | 225 | 6x M16<br>210                    | 27.7              | 144.4  | 4810                           | 4915                      | 505                      | 0.2                            | 0.8                           | 1.5                            |

Material: Bellows - Stainless Steel      Hub - Steel (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C

### Metal Bellows Coupling



**Order Code: KB 7 / 60 - 41 - 38 - S**

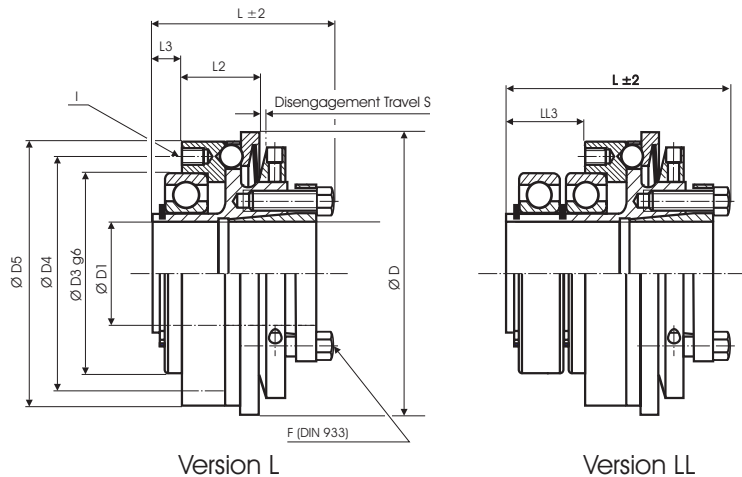
Type / Size      Length    ØD1/ØD2    Options

|          | Torque<br>$T_{KN}$<br>(Nm) | Dimensions (mm)     |                   |                              |      |             | Technical Ratings |  |                                |                           |                          |                                |                               |                                |
|----------|----------------------------|---------------------|-------------------|------------------------------|------|-------------|-------------------|--|--------------------------------|---------------------------|--------------------------|--------------------------------|-------------------------------|--------------------------------|
|          |                            | L<br>Length<br>(±2) | Ø A<br>Outer<br>Ø | Ø D1/D2<br>Bore Size<br>(H7) | Ø D3 | F<br>Thread | Mass<br>(kg)      | Moment<br>of<br>Inertia<br>J<br>(kg m <sup>2</sup> ) | Spring Stiffness               |                           |                          | Misalignment                   |                               |                                |
|          |                            |                     |                   |                              |      |             |                   |  | torsional<br>$C_T$<br>(Nm/rad) | radial<br>$C_R$<br>(N/mm) | axial<br>$C_A$<br>(N/mm) | radial<br>$\Delta K_r$<br>(mm) | axial<br>$\Delta K_a$<br>(mm) | angular<br>$\Delta K_w$<br>(°) |
| KB7/18   | 18                         | 36                  | 47                | 22                           | 31   | M5          | 0.128             | 0.042  | 20                             | 205                       | 50                       | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 44                  |                   |                              |      |             | 0.137             | 0.045  | 15                             | 82                        | 36                       | 0.25                           | 0.5                           | 2                              |
| KB7/30   | 30                         | 30                  | 56                | 28                           | 37   | M5          | 0.174             | 0.083  | 38                             | 720                       | 50                       | 0.15                           | 0.6                           | 1.5                            |
|          |                            | 38                  |                   |                              |      |             | 0.192             | 0.093  | 28                             | 225                       | 25                       | 0.25                           | 1                             | 2                              |
| KB7/60   | 60                         | 41                  | 66                | 38                           | 46   | M6          | 0.27              | 0.193  | 75                             | 1150                      | 90                       | 0.15                           | 0.6                           | 1.5                            |
|          |                            | 51                  |                   |                              |      |             | 0.29              | 0.217  | 50                             | 340                       | 50                       | 0.25                           | 1                             | 2                              |
| KB7/80   | 80                         | 50                  | 82                | 50                           | 62   | M6          | 0.65              | 0.742  | 128                            | 1200                      | 80                       | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 62                  |                   |                              |      |             | 0.69              | 0.805  | 75                             | 400                       | 50                       | 0.25                           | 1                             | 2                              |
| KB7/150  | 150                        | 50                  | 82                | 50                           | 62   | M6          | 0.66              | 0.75   | 155                            | 2020                      | 145                      | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 62                  |                   |                              |      |             | 0.71              | 0.81   | 105                            | 595                       | 85                       | 0.25                           | 1                             | 2                              |
| KB7/200  | 200                        | 50                  | 90                | 50                           | 62   | M6          | 0.72              | 0.894  | 175                            | 2500                      | 145                      | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 63                  |                   |                              |      |             | 0.78              | 0.989  | 120                            | 460                       | 82                       | 0.25                           | 1                             | 2                              |
| KB7/300  | 300                        | 55                  | 110               | 65                           | 80   | M8          | 1.18              | 2.431  | 502                            | 6300                      | 280                      | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 66                  |                   |                              |      |             | 1.24              | 2.588  | 285                            | 1400                      | 145                      | 0.25                           | 1                             | 2                              |
| KB7/500  | 500                        | 61                  | 122               | 70                           | 94   | M8          | 1.94              | 4.808  | 690                            | 7790                      | 100                      | 0.2                            | 0.5                           | 1.5                            |
|          |                            | 72                  |                   |                              |      |             | 2.03              | 5.078  | 320                            | 970                       | 85                       | 0.25                           | 1                             | 2                              |
| KB7/800  | 800                        | 131                 | 157               | 85                           | 110  | M16         | 3.28              | 11.207   | 760                            | 500                       | 185                      | 0.2                            | 0.8                           | 1.75                           |
| KB7/1400 | 1400                       | 131                 | 157               | 85                           | 110  | M16         | 3.33              | 11.421   | 1270                           | 700                       | 275                      | 0.2                            | 0.8                           | 1.75                           |
| KB7/3000 | 3000                       | 131                 | 157               | 85                           | 110  | M16         | 3.37              | 11.651   | 2810                           | 2945                      | 305                      | 0.2                            | 0.8                           | 1.5                            |
| KB7/5000 | 5000                       | 146                 | 208               | 100                          | 130  | M16         | 11.46             | 65.517   | 4810                           | 4915                      | 505                      | 0.2                            | 0.8                           | 1.5                            |

Material: Bellows - Stainless Steel      Hub - Steel (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C

### Safety Coupling



**Order Code: KBK/L - 60 - 20H7 - 20Nm - C oder D - 2**

Type - Size

Bore D1 (H7)

Disengagement Torque

Overload Torque Range

Single Position = C

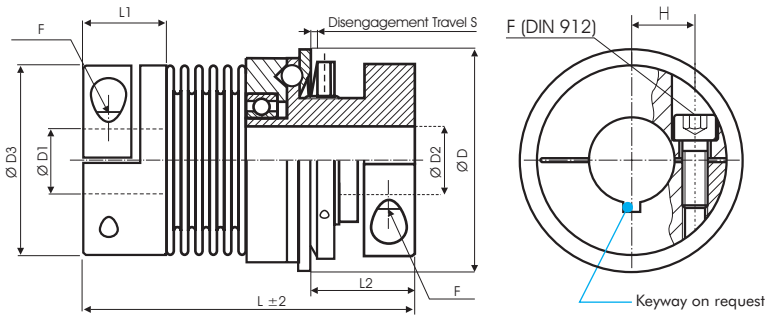
D = Multi Position Engagement

| KBK/L-x<br>KBK/LL-x | Dimensions (mm) |                                |      |      |      |                           |    |                 |     |   |                  | Technical Ratings          |          |                                  |              |   |
|---------------------|-----------------|--------------------------------|------|------|------|---------------------------|----|-----------------|-----|---|------------------|----------------------------|----------|----------------------------------|--------------|---|
|                     | Ø D             | Ø D1                           | Ø D3 | Ø D4 | Ø D5 | L · LL                    | L2 | L3 · LL3        | S   | I   | F                | Overload Torque adjustable |          | Maximum Speed<br>rpm.<br>(1/min) | Mass<br>(kg) | Moment of Inertia<br>J<br>(kg cm <sup>2</sup> ) |
|                     | Outer           | Bore Size<br>(H7)<br>min ~ max |      |      |      | Length<br>KBK/L<br>KBK/LL |    | KBK/L<br>KBK/LL | 6x  | Screw<br>(DIN 933)<br>T <sub>A</sub> (Nm) | 1<br>TKN<br>(Nm) | 2<br>TKN<br>(Nm)           |          |                                  |              |   |
| -10                 | 49              | 6-16                           | 37   | 42   | 47   | 36                        | 15 | 5               | 0.7 | M3  | M3               | 2-5                        | 5-10     | 12000                            | 0.25         | 1   |
|                     |                 |                                |      |      |      | 46                        |    | 15              |     |   | 4                |                            |          |                                  |              |   |
| -30                 | 64              | 8-20                           | 47   | 53   | 60   | 43                        | 18 | 6               | 1.2 | M4  | M5               | 5-15                       | 10-30    | 9400                             | 0.5          | 3   |
|                     |                 |                                |      |      |      | 60                        |    | 20              |     |   | 6                |                            |          |                                  |              |   |
| -60                 | 79              | 12-25                          | 62   | 69   | 75   | 58                        | 25 | 8               | 1.2 | M5  | M6               | 13-35                      | 20-65    | 7800                             | 1            | 6   |
|                     |                 |                                |      |      |      | 75                        |    | 26              |     |   | 8.5              |                            |          |                                  |              |   |
| -80                 | 94              | 15-35                          | 68   | 80   | 90   | 60                        | 26 | 10              | 2   | M6  | M6               | 15-40                      | 30-80    | 6400                             | 1.6          | 17  |
|                     |                 |                                |      |      |      | 76                        |    | 27              |     |   | 14               |                            |          |                                  |              |   |
| -150                | 94              | 15-35                          | 68   | 80   | 90   | 60                        | 26 | 10              | 2   | M6  | M6               | 50-130                     | 65-150   | 5500                             | 1.7          | 17  |
|                     |                 |                                |      |      |      | 76                        |    | 27              |     |   | 14               |                            |          |                                  |              |   |
| -200                | 109             | 20-40                          | 80   | 90   | 105  | 66                        | 30 | 10              | 2   | M6  | M6               | 30-90                      | 80-200   | 5500                             | 2.6          | 27  |
|                     |                 |                                |      |      |      | 85                        |    | 28              |     |   | 14               |                            |          |                                  |              |   |
| -300                | 119             | 30-46                          | 90   | 102  | 115  | 75                        | 32 | 10              | 2   | M8  | M8               | 60-200                     | 100-300  | 5000                             | 3.6          | 39  |
|                     |                 |                                |      |      |      | 95                        |    | 31              |     |   | 20               |                            |          |                                  |              |   |
| -500                | 129             | 35-50                          | 100  | 112  | 125  | 75                        | 32 | 10              | 2   | M8  | M8               | 80-250                     | 200-500  | 4500                             | 4.4          | 80  |
|                     |                 |                                |      |      |      | 95                        |    | 31              |     |   | 26               |                            |          |                                  |              |   |
| -800                | 169             | 40-60                          | 110  | 125  | 165  | 110                       | 50 | 15              | 2   | M12                                       | M16              | 260-600                    | 500-900  | 3500                             | 12           | 278   |
|                     |                 |                                |      |      |      | 133                       |    | 38              |     |   | 45               |                            |          |                                  |              |   |
| -1400               | 169             | 40-60                          | 110  | 125  | 165  | 110                       | 50 | 15              | 2   | M12                                       | M16              | 450-900                    | 800-1400 | 3500                             | 12           | 278   |
|                     |                 |                                |      |      |      | 113                       |    | 38              |     |   | 80               |                            |          |                                  |              |   |
| -1600               | 194             | 60-90                          | 150  | 168  | 190  | 125                       | 60 | 19              | 2   | M12                                       | M14              | 500-1000                   | 900-1600 | 3000                             | 16           | 325   |
|                     |                 |                                |      |      |      | 133                       |    | 47              |     |   | 100              |                            |          |                                  |              |   |

Keyway acc. DIN 6885 optional

Temperature Range: -30° ~ 120° C

### Safety Coupling



**Order Code: KBK/BK - 60 - 105 - 16H7 - 14H7 - 20Nm - C or D - 1 - S**

Type / Size

Length

Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

C or

Overload Torque Range

Options

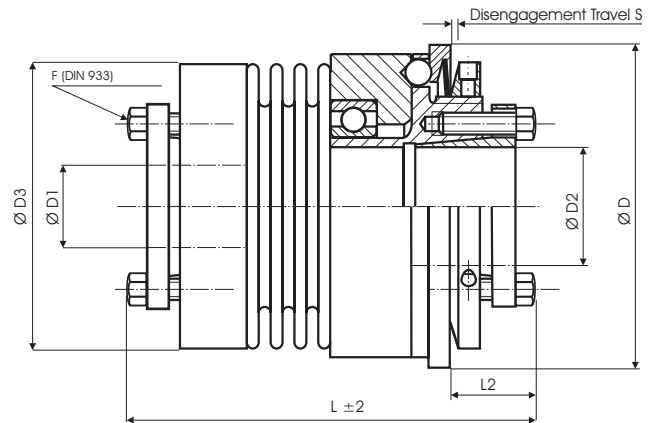
C = Single Position D = Multi Position Engagement

| KBK/BK-x    | Dimensions (mm) |        |                        |                        |              |      |                                     |    |      |     | Technical Ratings |      |                         |                            |                      |  |                              |                             |                             |                            |                             |
|-------------|-----------------|--------|------------------------|------------------------|--------------|------|-------------------------------------|----|------|-----|-------------------|------|-------------------------|----------------------------|----------------------|--|------------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------|
|             | Ø D             | L      | Ø D1                   | Ø D2                   | Ø D3         | H    | F                                   | L1 | L2   | S   | Maximum Speed     | Mass | Moment of Inertia       | Overload Torque adjustable |                      | Spring Stiffness                                   |                              |                             | Misalignment                |                            |                             |
|             | Outer Ø         | Length | Bore Size (H7) min max | Bore Size (H7) min max | Hub-diameter |      | Screw (DIN 912) T <sub>A</sub> (Nm) |    |      |     | rpm. (1/min)      | (kg) | J (kg cm <sup>2</sup> ) | T <sub>KN</sub> (Nm)       | T <sub>KN</sub> (Nm) | torsional x10 <sup>3</sup> C <sub>T</sub> (Nm/rad) | radial C <sub>R</sub> (N/mm) | axial C <sub>A</sub> (N/mm) | radial ΔK <sub>r</sub> (mm) | axial ΔK <sub>a</sub> (mm) | angular ΔK <sub>w</sub> (°) |
| <b>-7</b>   | 49              | 65     | 6                      | 6                      | 40           | 15.5 | M4                                  | 16 | 20   | 0.7 | 11690             | 0.25 | 0.7                     | 1                          | 3                    | 8.1  | 120                          | 27                          | 0.15                        | 0.4                        | 1.5                         |
|             |                 | 75     | 25                     | 19                     |              |      | 5.1                                 |    |      |     |                   |      |                         | 4                          | 7                    |  |                              |                             |                             |                            |                             |
| <b>-10</b>  | 49              | 65     | 6                      | 6                      | 40           | 15.5 | M4                                  | 16 | 20   | 0.7 | 11690             | 0.25 | 0.7                     | 3                          | 5                    | 8.1  | 120                          | 27                          | 0.15                        | 0.4                        | 1.5                         |
|             |                 | 75     | 25                     | 19                     |              |      | 5.1                                 |    |      |     |                   |      |                         | 7                          | 10                   |  |                              |                             |                             |                            |                             |
| <b>-30</b>  | 64              | 85     | 10                     | 10                     | 56           | 20   | M6                                  | 25 | 30.5 | 1.2 | 9540              | 0.7  | 3.2                     | 5                          | 10                   | 38   | 720                          | 50                          | 0.15                        | 0.6                        | 1.5                         |
|             |                 | 94     | 25                     | 20                     |              |      | 15                                  |    |      |     |                   |      |                         | 15                         | 30                   |  |                              |                             |                             |                            |                             |
| <b>-60</b>  | 79              | 105    | 14                     | 14                     | 66           | 23   | M8                                  | 30 | 28   | 1.2 | 8180              | 1.4  | 8                       | 12                         | 20                   | 75   | 1150                         | 90                          | 0.15                        | 0.6                        | 1.5                         |
|             |                 | 115    | 35                     | 25                     |              |      | 36                                  |    |      |     |                   |      |                         | 35                         | 60                   |  |                              |                             |                             |                            |                             |
| <b>-80</b>  | 94              | 113    | 20                     | 20                     | 82           | 33.5 | M10                                 | 33 | 42   | 2   | 6220              | 2.3  | 19                      | 15                         | 30                   | 128  | 1200                         | 80                          | 0.2                         | 0.5                        | 1.5                         |
|             |                 | 125    | 40                     | 35                     |              |      | 72                                  |    |      |     |                   |      |                         | 40                         | 80                   |  |                              |                             |                             |                            |                             |
| <b>-150</b> | 94              | 113    | 20                     | 20                     | 82           | 33.5 | M10                                 | 33 | 42   | 2   | 6220              | 2.4  | 30                      | 50                         | 65                   | 155  | 2020                         | 145                         | 0.2                         | 0.5                        | 1.5                         |
|             |                 | 125    | 40                     | 35                     |              |      | 72                                  |    |      |     |                   |      |                         | 130                        | 150                  |  |                              |                             |                             |                            |                             |
| <b>-200</b> | 109             | 125    | 25                     | 25                     | 90           | 38   | M12                                 | 38 | 42   | 2   | 5720              | 3    | 33                      | 30                         | 80                   | 175  | 2500                         | 147                         | 0.2                         | 0.5                        | 1.5                         |
|             |                 | 138    | 42                     | 32                     |              |      | 125                                 |    |      |     |                   |      |                         | 90                         | 200                  |  |                              |                             |                             |                            |                             |
| <b>-300</b> | 119             | 140    | 32                     | 32                     | 110          | 38   | M12                                 | 38 | 38   | 2   | 5200              | 5.3  | 65                      | 60                         | 100                  | 502  | 6300                         | 280                         | 0.2                         | 0.5                        | 1.5                         |
|             |                 | 150    | 50                     | 40                     |              |      | 125                                 |    |      |     |                   |      |                         | 200                        | 300                  |  |                              |                             |                             |                            |                             |
| <b>-500</b> | 129             | 158    | 40                     | 35                     | 122          | 42   | M12                                 | 42 | 56   | 2   | 4470              | 6.2  | 130                     | 80                         | 200                  | 690  | 7790                         | 100                         | 0.2                         | 0.5                        | 1.5                         |
|             |                 | 170    | 60                     | 50                     |              |      | 125                                 |    |      |     |                   |      |                         | 250                        | 500                  |  |                              |                             |                             |                            |                             |

Material: Bellows - Stainless Steel  
 Hub (KBK/BK7, KBK/BK10, KBK/BK30, KBK/BK60) Aluminium  
 Hub (KBK/BK80, KBK/BK150, KBK/BK200, KBK/BK300, KBK/BK500) Steel

Temperature Range: -30° ~ 120° C

## Safety Coupling



Order Code: **KBK/BI - 60 - 100 - 15H7 - 18H7 - 20Nm - C** oder **D - 2**

Type / Size

Length

Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

oder

Overload Torque Range

C = Single Position D = Multi Position Engagement

| KBK/BI-x     | Dimensions (mm) |        |                        |                        |      |                         |      |     | Technical Ratings |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
|--------------|-----------------|--------|------------------------|------------------------|------|-------------------------|------|-----|-------------------|------|-------------------------|----------------------------|------------------------|--|------------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------|
|              | ØD              | L      | ØD1                    | ØD2                    | ØD3  | F                       | L2   | S   | Maximum speed     | Mass | Moment of Inertia       | Overload Torque adjustable |                        | Spring Stiffness                                   |                              |                             | Misalignment                |                            |                             |
|              | Outer Ø         | Length | Bore Size (H7) min~max | Bore Size (H7) min~max |      | Screw (DIN 933) TA (Nm) |      |     | rpm. (1/min)      | (kg) | J (kg cm <sup>2</sup> ) | 1 T <sub>KN</sub> (Nm)     | 2 T <sub>KN</sub> (Nm) | torsional x10 <sup>3</sup> C <sub>T</sub> (Nm/rad) | radial C <sub>R</sub> (N/mm) | axial C <sub>A</sub> (N/mm) | radial ΔK <sub>r</sub> (mm) | axial ΔK <sub>a</sub> (mm) | angular ΔK <sub>w</sub> (°) |
| <b>-10</b>   | 49              | 68     | 6-14                   | 6-14                   | 40.5 | M3                      | 10   | 0.7 | 11650             | 0.25 | 0.7                     | 3-7                        | 5-10                   | 8.1  | 120                          | 27                          | 0.15                        | 0.4                        | 1.5                         |
|              |                 | 78     |                        |                        |      | 1.5                     |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
| <b>-30</b>   | 64              | 85     | 10-20                  | 10-20                  | 56   | M5                      | 12   | 1.2 | 9540              | 0.7  | 3.2                     | 5-15                       | 10-30                  | 38   | 720                          | 50                          | 0.15                        | 0.6                        | 1.5                         |
|              |                 | 94     |                        |                        |      | 6                       |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
| <b>-60</b>   | 79              | 100    | 15-25                  | 15-25                  | 66   | M6                      | 13   | 1.2 | 8180              | 1.4  | 8                       | 12-35                      | 20-60                  | 75   | 1150                         | 90                          | 0.15                        | 0.6                        | 1.5                         |
|              |                 | 110    |                        |                        |      | 8.5                     |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
| <b>-80</b>   | 94              | 115    | 20-35                  | 20-35                  | 82   | M6                      | 15   | 2   | 6220              | 2.3  | 19                      | 15-40                      | 30-80                  | 128  | 1200                         | 80                          | 0.2                         | 0.5                        | 1.5                         |
|              |                 | 128    |                        |                        |      | 14                      |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
| <b>-150</b>  | 94              | 115    | 20-35                  | 20-35                  | 82   | M6                      | 15   | 2   | 6220              | 2.4  | 20                      | 50-130                     | 65-150                 | 155  | 2020                         | 145                         | 0.2                         | 0.5                        | 1.5                         |
|              |                 | 128    |                        |                        |      | 14                      |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
| <b>-200</b>  | 109             | 125    | 20-40                  | 20-40                  | 90   | M6                      | 15   | 2   | 5720              | 3    | 33                      | 30-90                      | 80-200                 | 175  | 2500                         | 147                         | 0.2                         | 0.5                        | 1.5                         |
|              |                 | 135    |                        |                        |      | 14                      |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
| <b>-300</b>  | 119             | 135    | 30-50                  | 30-46                  | 110  | M8                      | 19   | 2   | 5200              | 5.3  | 65                      | 60-200                     | 100-300                | 502  | 6300                         | 280                         | 0.2                         | 0.5                        | 1.5                         |
|              |                 | 145    |                        |                        |      | 18                      |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
| <b>-500</b>  | 129             | 150    | 35-55                  | 35-50                  | 122  | M8                      | 18.5 | 2   | 4470              | 7    | 170                     | 80-250                     | 200-500                | 690  | 7790                         | 100                         | 0.2                         | 0.5                        | 1.5                         |
|              |                 | 162    |                        |                        |      | 26                      |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
| <b>-800</b>  | 169             | 235    | 40-70                  | 40-60                  | 157  | M16                     | 30   | 2   | 3350              | 19   | 540                     | 240-600                    | 500-800                | 700  | 500                          | 185                         | 0.2                         | 0.8                        | 1.8                         |
|              |                 |        |                        |                        |      | 45                      |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
| <b>-1400</b> | 169             | 235    | 40-70                  | 40-60                  | 157  | M16                     | 30   | 2   | 3350              | 20   | 560                     | 360-1000                   | 900-1400               | 1270   | 700                          | 275                         | 0.2                         | 0.8                        | 1.8                         |
|              |                 |        |                        |                        |      | 80                      |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |
| <b>-1600</b> | 194             | 250    | 60-90                  | 70-90                  | 157  | M12                     | 32   | 2   | 3000              | 22   | 600                     | 360-1000                   | 900-1600               | 2810   | 2945                         | 305                         | 0.2                         | 0.8                        | 1.5                         |
|              |                 |        |                        |                        |      | 90                      |      |     |                   |      |                         |                            |                        |  |                              |                             |                             |                            |                             |

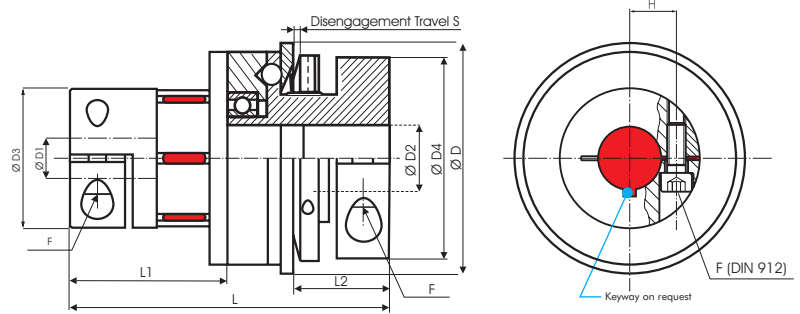
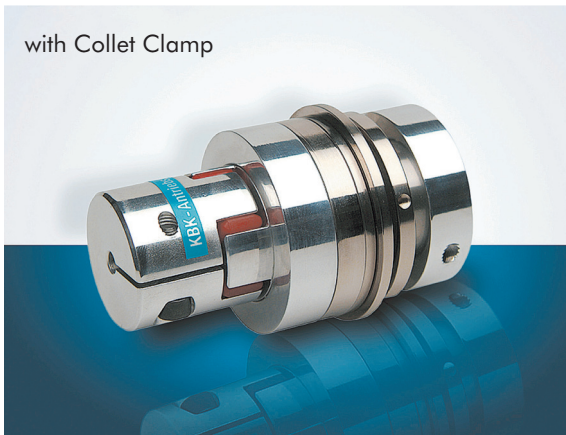
Material: Bellows: Stainless Steel

Hub: Steel (also available in Stainless Steel)

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C

### Torque Limiting



**Oder Code: KBK/EK - 24 - 16H7 - 14H7 - 20Nm - CoderD - 2**

Type - Size

Bore D1(H7)

Bore D2(H7)

Disengagement Torque

**CoderD - 2**

Overload Torque Range

C = Single Position, D = Multi Position Engagement

| KBK/EK-x | Dimensions (mm) |        |                        |                        |      |      |      |   |    |    |     | Technical Ratings                |              |   |                                   |                              |                              |                                   |                                  |                                   |
|----------|-----------------|--------|------------------------|------------------------|------|------|------|---|----|----|-----|----------------------------------|--------------|---|-----------------------------------|------------------------------|------------------------------|-----------------------------------|----------------------------------|-----------------------------------|
|          | Ø D             | L      | Ø D1                   | Ø D2                   | Ø D3 | Ø D4 | H    | F   | L1 | L2 | S   | Maximum Speed<br>rpm.<br>(1/min) | Mass<br>(kg) | Moment of Inertia<br>J<br>(kg cm <sup>2</sup> ) | Torque<br>T <sub>KN</sub><br>(Nm) | Overload Torque adjustable   |                              | Misalignment                      |                                  |                                   |
|          | Outer Ø         | Length | Bore (H7)<br>min ~ max | Bore (H7)<br>min ~ max |      |      |      | Screw<br>(DIN 912)<br>T <sub>A</sub> (Nm) |    |    |     |                                  |              |   |                                   | 1<br>T <sub>KN</sub><br>(Nm) | 2<br>T <sub>KN</sub><br>(Nm) | radial<br>ΔK <sub>r</sub><br>(mm) | axial<br>ΔK <sub>a</sub><br>(mm) | angular<br>ΔK <sub>w</sub><br>(°) |
| -14      | 49              | 65     | 4-14                   | 6-19                   | 30   | 40   | 15.5 | M4<br>5.1                                 | 16 | 20 | 0.7 | 11690                            | 0.3          | 1.4   | 12.5                              | 3-7                          | 5-10                         | 0.06                              | 1.2                              | 0.9                               |
| -19      | 64              | 100    | 10-20                  | 10-20                  | 40   | 56   | 24.5 | M6<br>15                                  | 25 | 22 | 1.2 | 8950                             | 0.5          | 3   | 17                                | 5-15                         | 10-19                        | 0.06                              | 1.2                              | 0.9                               |
| -24      | 79              | 115    | 15-28                  | 14-23                  | 55   | 66   | 29   | M8<br>36                                  | 30 | 28 | 1.2 | 7630                             | 0.7          | 5.4   | 60                                | 12-35                        | 20-60                        | 0.08                              | 1.3                              | 0.9                               |
| -28      | 94              | 142    | 19-35                  | 20-35                  | 65   | 82   | 33.5 | M10<br>72                                 | 33 | 42 | 2   | 6030                             | 1.4          | 9.7   | 160                               | 50-130                       | 65-150                       | 0.1                               | 1.4                              | 0.9                               |
| -38      | 119             | 160    | 20-45                  | 32-40                  | 80   | 110  | 38   | M12<br>125                                | 38 | 38 | 2   | 4980                             | 2.2          | 23  | 325                               | 60-200                       | 100-300                      | 0.11                              | 1.5                              | 0.9                               |
| -42      | 129             | 195    | 28-45                  | 35-50                  | 95   | 122  | 42   | M12<br>125                                | 42 | 56 | 2   | 4440                             | 4.6          | 80  | 450                               | 80-250                       | 200-500                      | 0.12                              | 1.8                              | 0.9                               |

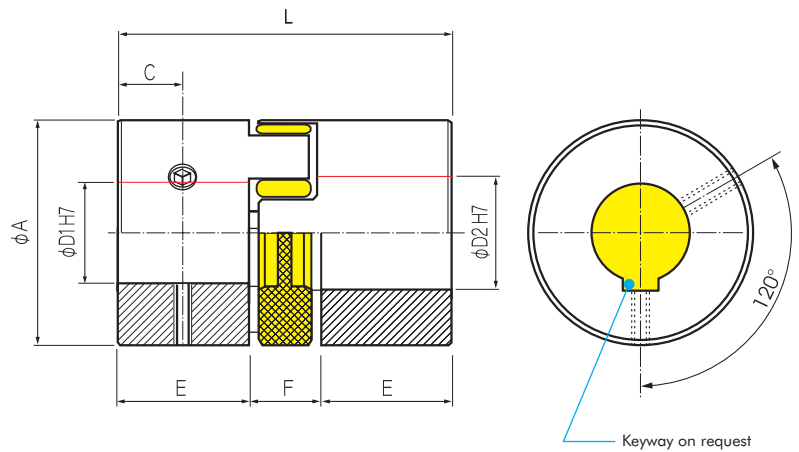
Material: Insert: Polyurethan 98 Sh A red  
 Hub (KBK/EK-14, KBK/EK-19, KBK/EK-24, KBK/EK-28): Aluminium  
 Hub (KBK/EK-38, KBK/EK-42): Steel

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 90°C

Form of Hubs (KBK/EK-14, KBK/EK-19): Single Slit  
 Form of Hubs (KBK/EK-24, KBK/EK-28, KBK/EK-38, KBK/EK-42): Double Slit

## Servo Insert Coupling



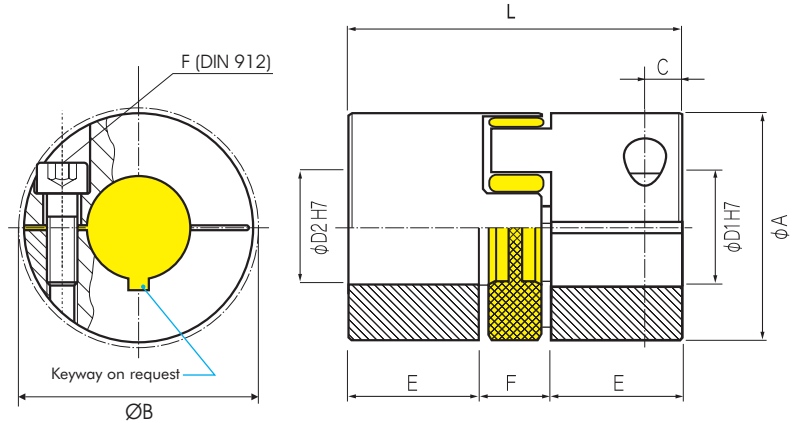
**Order Code: KBE 1 - 14 - 10H7 - 12H7 - S**

Type
Size
Bore D1(H7)
Bore D2(H7)
Options

|                   | Dimensions (mm) |        |                              |    |    |     |  | Technical Ratings |                |                       |        |
|-------------------|-----------------|--------|------------------------------|----|----|-----|--|-------------------|----------------|-----------------------|--------|
|                   | $\phi A$        | L      | $\phi D1-D2$                 | E  | F  | C   | F                                      | Maximum Speed     | Mass (per Hub) | Moment of Inertia J   | Torque |
|                   | Outer $\phi$    | Length | Bore Sizes (H7)<br>min ~ max |    |    |     | Screw (DIN 916)<br>T <sub>A</sub> (Nm) | rpm. (1/min)      | (g)            | (kg mm <sup>2</sup> ) | (Nm)   |
| <b>KBE 1 - 7</b>  | 14              | 22     | 4 - 7                        | 7  | 8  | 3.5 | M3                                     | 34000             | 3              | 0.2                   | 1.2    |
|                   |                 |        |                              |    |    |     | 1.3                                    |                   |                |                       |        |
| <b>KBE 1 - 9</b>  | 20              | 30     | 6 - 9                        | 10 | 10 | 5   | M3                                     | 24000             | 9              | 1.1                   | 3      |
|                   |                 |        |                              |    |    |     | 1.3                                    |                   |                |                       |        |
| <b>KBE 1 - 14</b> | 30              | 35     | 6 - 16                       | 11 | 13 | 5   | M4                                     | 16000             | 20             | 5.6                   | 7.5    |
|                   |                 |        |                              |    |    |     | 3                                      |                   |                |                       |        |
| <b>KBE 1 - 19</b> | 40              | 66     | 10 - 24                      | 25 | 16 | 10  | M5                                     | 12000             | 26             | 36                    | 10     |
|                   |                 |        |                              |    |    |     | 6                                      |                   |                |                       |        |
| <b>KBE 1 - 24</b> | 55              | 78     | 16 - 28                      | 30 | 18 | 10  | M5                                     | 8500              | 132            | 150                   | 35     |
|                   |                 |        |                              |    |    |     | 6                                      |                   |                |                       |        |
| <b>KBE 1 - 28</b> | 65              | 90     | 20 - 38                      | 35 | 20 | 15  | M6                                     | 7200              | 253            | 330                   | 160    |
|                   |                 |        |                              |    |    |     | 11                                     |                   |                |                       |        |
| <b>KBE 1 - 38</b> | 80              | 114    | 20 - 45                      | 45 | 24 | 15  | M8                                     | 6000              | 455            | 960                   | 325    |
|                   |                 |        |                              |    |    |     | 25                                     |                   |                |                       |        |
| <b>KBE 1 - 42</b> | 95              | 126    | 20 - 55                      | 50 | 26 | 20  | M8                                     | 4800              | 1850           | 4900                  | 450    |
|                   |                 |        |                              |    |    |     | 25                                     |                   |                |                       |        |
| <b>KBE 1 - 48</b> | 105             | 140    | 20 - 60                      | 56 | 28 | 20  | M8                                     | 4300              | 2520           | 8300                  | 525    |
|                   |                 |        |                              |    |    |     | 25                                     |                   |                |                       |        |
| <b>KBE 1 - 55</b> | 120             | 160    | 25 - 70                      | 65 | 30 | 22  | M10                                    | 3900              | 3800           | 15000                 | 685    |
|                   |                 |        |                              |    |    |     | 45                                     |                   |                |                       |        |
| <b>KBE 1 - 65</b> | 135             | 185    | 25 - 75                      | 75 | 35 | 22  | M10                                    | 3500              | 4500           | 25000                 | 940    |
|                   |                 |        |                              |    |    |     | 45                                     |                   |                |                       |        |

Material: Insert (KBE1-7; KBE1-9): Polyurethan 92 Sh A (yellow)  
 Insert (KBE1-14 bis KBE1-65): Polyurethan 98 Sh A (red)  
 Hub: Aluminium

## Servo Insert Coupling



**Oder Code: KBE 2 - 14 - 10H7 - 12H7 - S**  
 Type                      Size                      Ø D1(H7)                      Ø D2(H7)                      Options

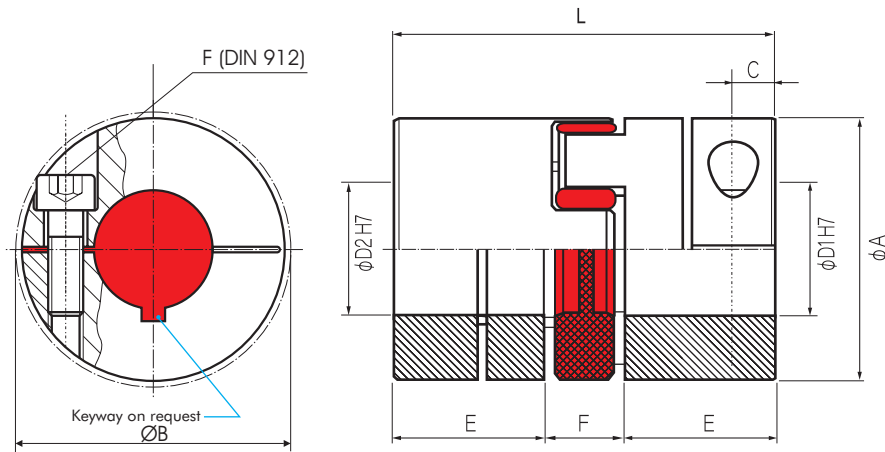
|                   | Dimensions (mm) |        |                           |    |    |     |        | Technical Ratings                   |               |                |                       |        |
|-------------------|-----------------|--------|---------------------------|----|----|-----|--------|-------------------------------------|---------------|----------------|-----------------------|--------|
|                   | ØA              | L      | Ø D1-D2                   | E  | F  | C   | B      | F                                   | Maximum Speed | Mass (per Hub) | Moment of Inertia J   | Torque |
|                   |                 | Length | Bore Sizes (H7) min ~ max |    |    |     | Max. Ø | Screw (DIN 912) T <sub>A</sub> (Nm) | rpm. (1/min)  | (g)            | (kg cm <sup>2</sup> ) | (Nm)   |
| <b>KBE 2 - 7</b>  | 14              | 22     | 4 - 7                     | 7  | 8  | 3.5 | 15     | M2<br>0.37                          | 27000         | 3              | 0.2                   | 1.2    |
| <b>KBE 2 - 9</b>  | 20              | 30     | 4 - 9                     | 10 | 10 | 5   | 23.4   | M2.5<br>0.75                        | 19000         | 9              | 1.1                   | 3      |
| <b>KBE 2 - 14</b> | 30              | 35     | 4 - 14                    | 11 | 13 | 5   | 32.2   | M3<br>1.4                           | 13000         | 20             | 5.6                   | 12.5   |
| <b>KBE 2 - 19</b> | 40              | 66     | 10 - 20                   | 25 | 16 | 12  | 45.7   | M6<br>11                            | 10000         | 26             | 36                    | 17     |

### Transmissible Torque (Nm) of the Hubs

|                   | Ø Bore (mm) |     |      |     |     |     |     |     |     |     |     |     |     |    |    |
|-------------------|-------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
|                   | 3           | 4   | 5    | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 14  | 15  | 16  | 19 | 20 |
| <b>KBE 2 - 7</b>  | 0.8         | 0.9 | 0.95 | 1   | 1.1 |     |     |     |     |     |     |     |     |    |    |
| <b>KBE 2 - 9</b>  |             | 2.1 | 2.2  | 2.3 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 |     |     |     |     |    |    |
| <b>KBE 2 - 14</b> |             | 3.4 | 3.5  | 3.6 | 3.7 | 3.9 | 4   | 4.1 | 4.2 | 4.3 | 4.6 | 4.7 | 4.8 |    |    |
| <b>KBE 2 - 19</b> |             |     |      |     |     |     |     | 27  | 27  | 29  | 30  | 31  | 32  | 32 | 34 |

- ⊗ Hub:                      Bore Tolerance: H7      Keyway acc. DIN 6885 optional
- ⊗ Material:                Insert - Polyurethan  
                                  Hub - Aluminium
- ⊗ Hardness:                up to Size 9: 92 Sh A (yellow)  
                                  from Size 14: 98 Sh A (red)





**Order Code: KBE 2 - 38 - 20H7 - 40H7 - S**  
 Type                      Size                      Ø D1(H7)                      Ø D2(H7)                      Options

|                   | Dimensions (mm) |              |                           |    |    |    |        |                                     | Technical Ratings |                |                       |        |
|-------------------|-----------------|--------------|---------------------------|----|----|----|--------|-------------------------------------|-------------------|----------------|-----------------------|--------|
|                   | ØA              | L            | Ø D1-D2                   | E  | F  | C  | B      | F                                   | Maximum Speed     | Mass (per Hub) | Moment of Inertia J   | Torque |
|                   |                 | Total Length | Bore Sizes (H7) min ~ max |    |    |    | Max. Ø | Screw (DIN 912) T <sub>A</sub> (Nm) | rpm. (1/min)      | (g)            | (kg cm <sup>2</sup> ) | (Nm)   |
| <b>KBE 2 - 24</b> | 55              | 78           | 15 - 28                   | 30 | 18 | 14 | 56.4   | M6<br>11                            | 27000             | 0.13           | 150                   | 60     |
| <b>KBE 2 - 28</b> | 65              | 90           | 19 - 35                   | 35 | 20 | 15 | 72.6   | M8<br>25                            | 19000             | 0.25           | 330                   | 160    |
| <b>KBE 2 - 38</b> | 80              | 114          | 20 - 45                   | 45 | 24 | 20 | 83.3   | M8<br>25                            | 13000             | 0.45           | 960                   | 325    |
| <b>KBE 2 - 42</b> | 95              | 126          | 28 - 45                   | 50 | 26 | 20 | 88.8   | M8<br>25                            | 10000             | 1.9            | 4900                  | 450    |
| <b>KBE 2 - 48</b> | 105             | 140          | 25 - 50                   | 56 | 28 | 22 | 90.6   | M10<br>49                           | 10000             | 2.5            | 8300                  | 525    |

Transmissible Torque (Nm) of the Hubs

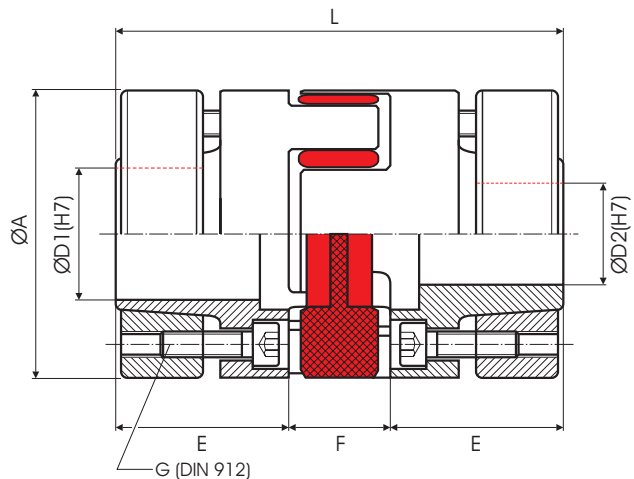
|                   | Ø Bore (mm) |    |    |      |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-------------------|-------------|----|----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | 15          | 16 | 19 | 20   | 22  | 24  | 25  | 28  | 30  | 32  | 35  | 38  | 40  | 42  | 45  | 48  | 50  |
| <b>KBE 2 - 24</b> | 39          | 43 | 44 | 46   | 47  | 49  | 50  | 52  |     |     |     |     |     |     |     |     |     |
| <b>KBE 2 - 28</b> |             |    | 91 | 93.5 | 96  | 98  | 100 | 104 | 107 | 110 | 113 |     |     |     |     |     |     |
| <b>KBE 2 - 38</b> |             |    |    | 107  | 110 | 112 | 114 | 118 | 121 | 123 | 127 | 131 | 134 | 137 | 141 |     |     |
| <b>KBE 2 - 42</b> |             |    |    |      |     |     |     | 250 | 255 | 260 | 267 | 279 | 281 | 288 | 298 |     |     |
| <b>KBE 2 - 48</b> |             |    |    |      |     |     |     |     |     | 445 | 457 | 470 | 472 | 508 | 520 | 534 | 543 |

Hub:                      Bore Tolerance: H7      Keyway acc. DIN 6885 optional

Material:                      Insert - Polyurethan  
    Hub - Aluminium

Shorehärte:                      98 Sh A (red)

## Servo Insert Coupling



**Order Code:** KBE 3 - 48 - 40H7 - 35H7 - S  
 Type                      Size                      Bore D1 (H7)                      Bore D2 (H7)                      Options

|                   | Dimensions (mm) |              |                              |    |    |                 |                                  | Technical Ratings         |   |                |   |
|-------------------|-----------------|--------------|------------------------------|----|----|-----------------|----------------------------------|---------------------------|---|----------------|---|
|                   | Ø A             | L            | Ø D1-D2                      | E  | F  | G               | Maximum Speed<br>rpm.<br>(1/min) | Mass<br>(per Hub)<br>(kg) | Moment of Inertia<br>J<br>(kg mm <sup>2</sup> ) | Torque<br>(Nm) |   |
|                   | Outer Ø         | Total Length | Bore Sizes (H7)<br>min ~ max |    |    | Screw (DIN 912) |                                  |                           |   |                | Torque to Tighten Clamps<br>T <sub>A</sub> (Nm) |
| <b>KBE 3 - 14</b> | 30              | 50           | 8 - 14                       | 19 | 13 | M3              | 1.34                             | 25000                     | 0.05  | 7              | 12.5  |
| <b>KBE 3 - 19</b> | 40              | 66           | 10 - 19                      | 25 | 16 | M4              | 2.9                              | 19000                     | 0.12  | 31             | 17  |
| <b>KBE 3 - 24</b> | 55              | 78           | 19 - 25                      | 30 | 18 | M5              | 6                                | 14000                     | 0.28  | 135            | 60  |
| <b>KBE 3 - 28</b> | 65              | 90           | 19 - 38                      | 35 | 20 | M5              | 6                                | 12000                     | 0.45  | 313            | 160   |
| <b>KBE 3 - 38</b> | 80              | 114          | 24 - 38                      | 45 | 24 | M6              | 10                               | 10000                     | 0.95  | 960            | 325   |
| <b>KBE 3 - 42</b> | 95              | 126          | 28 - 50                      | 50 | 26 | M8              | 35                               | 8000                      | 2.3   | 3200           | 450   |
| <b>KBE 3 - 48</b> | 105             | 140          | 35 - 60                      | 56 | 28 | M8              | 35                               | 7000                      | 3.08  | 5200           | 525   |
| <b>KBE 3 - 55</b> | 120             | 160          | 40 - 65                      | 65 | 30 | M10             | 69                               | 6000                      | 4.67  | 15000          | 685   |
| <b>KBE 3 - 65</b> | 135             | 185          | 45 - 70                      | 75 | 30 | M12             | 120                              | 5000                      | 6.7   | 25000          | 940   |

### Transmissible Torque (Nm) of the Hubs

|                   | Ø Bore (mm) |      |      |      |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |  |  |  |  |
|-------------------|-------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
|                   | 6           | 10   | 11   | 14   | 15  | 16  | 19  | 20  | 24  | 25  | 28  | 30  | 32  | 35  | 38   | 40   | 42   | 45   | 48   | 50   | 55   | 60   | 65   | 70   |  |  |  |  |
| <b>KBE 3 - 14</b> | 8.6         | 13.8 | 14.7 | 22.7 |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |  |  |  |  |
| <b>KBE 3 - 19</b> |             | 41   | 45   | 62   | 68  | 67  | 83  | 90  |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |  |  |  |  |
| <b>KBE 3 - 24</b> |             |      | 48   | 67   | 74  | 72  | 90  | 97  | 112 | 120 | 143 |     |     |     |      |      |      |      |      |      |      |      |      |      |  |  |  |  |
| <b>KBE 3 - 28</b> |             |      |      |      | 142 | 154 | 189 | 188 | 237 | 250 | 280 | 307 | 310 | 353 | 389  |      |      |      |      |      |      |      |      |      |  |  |  |  |
| <b>KBE 3 - 38</b> |             |      |      |      |     |     |     | 269 | 337 | 356 | 398 | 436 | 424 | 501 | 533  | 572  | 585  | 644  |      |      |      |      |      |      |  |  |  |  |
| <b>KBE 3 - 42</b> |             |      |      |      |     |     |     |     | 399 | 445 | 506 | 470 | 566 | 581 | 647  | 630  | 728  | 836  | 858  |      |      |      |      |      |  |  |  |  |
| <b>KBE 3 - 48</b> |             |      |      |      |     |     |     |     |     |     | 775 | 819 | 955 | 999 | 1092 | 1091 | 1230 | 1381 | 1334 | 1540 |      |      |      |      |  |  |  |  |
| <b>KBE 3 - 55</b> |             |      |      |      |     |     |     |     |     |     |     |     |     | 918 | 954  | 1052 | 1040 | 1185 | 1220 | 1318 | 1359 | 1646 | 1662 | 1960 |  |  |  |  |
| <b>KBE 3 - 65</b> |             |      |      |      |     |     |     |     |     |     |     |     |     |     |      | 1568 | 1569 | 1768 | 1833 | 1968 | 2049 | 2438 | 2495 | 2898 |  |  |  |  |

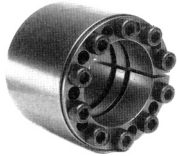
Material: Insert: Polyurethan 98 Sh A (red)  
 Hub: (KBE3-14, KBE3-19, KBE3-24, KBE3-28, KBE3-38) Aluminium  
 Hub: (KBE3-42, KBE3-48, KBE3-55, KBE3-65) Steel

# Locking Devices



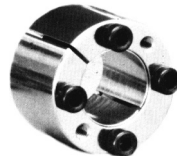
## Product Range

### Locking Devices:



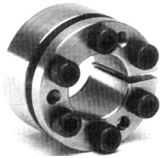
#### **KBS 11**

selfcentering,  
for high torques



#### **KBS 61**

simple construction, good centering and  
true running



#### **KBS 13**

short construction,  
selfcentering



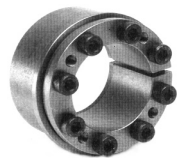
#### **KBS 70**

for high concentricity and rectangularity,  
no axial displacement



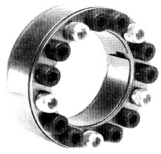
#### **KBS 16**

high concentricity, no axial displacement,  
selfcentering



#### **KBS 71**

for high concentricity and rectangularity,  
selfcentering



#### **KBS 40**

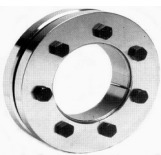
cost effective,  
not selfcentering



#### **KBS 80**

for connections of hubs with small hub thickness,  
high position accuracy

### Shrink Discs:



#### **KBS 19**

for hollow shaft connections  
also under impact of bending moments

### Locking Elements:



#### **KBS 50**

cost effective, for low and middle torques,  
fixing flange required

Ask for our catalogue "Locking Devices".





The details contained in this catalogue are product descriptions based on our knowledge and experience.  
We reserve the right to make alterations at any time and cannot be responsible for any omissions or printing errors.

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