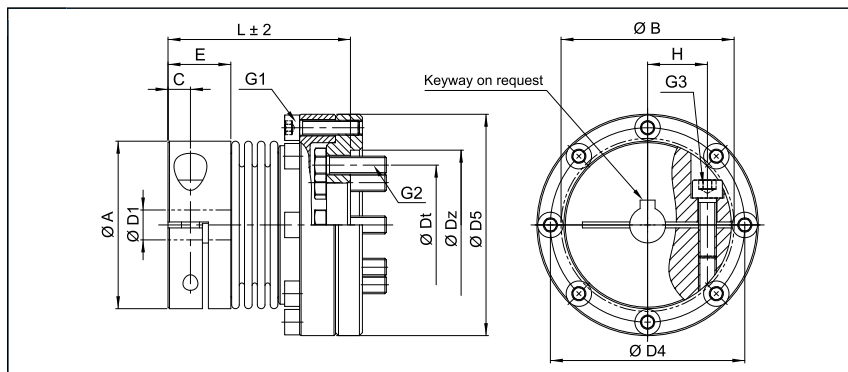


Metal Bellows Coupling  
mit Adapterflansch

# KB4FA



optional  
laserwelded  
optional full stainless  
steel version



Order Code

**KB4FA / 150 - 79 - 30 - 63**

Type / Size

Length  
L

ØD  
(H7)

Dt

| Size | Torque<br>TKN<br>(Nm) | Dimensions (mm) |       |                              |    |      |      |       |      |                               | Technical Data |                                     |                                 |                        |                       |                       |                      |                       |                          |
|------|-----------------------|-----------------|-------|------------------------------|----|------|------|-------|------|-------------------------------|----------------|-------------------------------------|---------------------------------|------------------------|-----------------------|-----------------------|----------------------|-----------------------|--------------------------|
|      |                       | L               | Ø A   | Ø D1                         | H  | C    | E    | Ø B   | Ø D4 | G3                            | Mass<br>(kg)   | Moment<br>of Inertia<br>J<br>(g m²) | Spring Stiffness                |                        |                       | Misalignment          |                      |                       | max.<br>speed<br>(min-1) |
|      |                       | Länge           | Outer | Bore Size<br>(H7)<br>min-max |    |      |      |       |      | Screw<br>(ISO4762)<br>TA (Nm) |                |                                     | torsional<br>CT 10³<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>(°) |                          |
| 18   | 18                    | 63              | 45    | 10-25.4                      | 17 | 5.5  | 17.5 | 47.4  | 56.5 | M5                            | 0.50           | 0.15                                | 20                              | 205                    | 50                    | 0.2                   | 0.5                  | 1.5                   | 12800                    |
|      |                       | 71              |       |                              |    |      |      |       |      | 8                             | 0.52           | 0.16                                | 15                              | 82                     | 36                    | 0.25                  | 0.5                  | 2                     |                          |
| 30   | 30                    | 61              | 56    | 10-32                        | 20 | 7.3  | 21   | 56.4  | 65   | M6                            | 0.70           | 0.20                                | 38                              | 720                    | 50                    | 0.15                  | 0.6                  | 1.5                   | 10300                    |
|      |                       | 69              |       |                              |    |      |      |       |      | 15                            | 0.72           | 0.21                                | 28                              | 225                    | 28                    | 0.25                  | 1.0                  | 2                     |                          |
| 60   | 60                    | 68              | 66    | 12-35                        | 23 | 8.6  | 24   | 66    | 76   | M8                            | 1.00           | 0.65                                | 75                              | 1150                   | 90                    | 0.15                  | 0.6                  | 1.5                   | 8700                     |
|      |                       | 78              |       |                              |    |      |      |       |      | 40                            | 1.05           | 0.68                                | 50                              | 340                    | 50                    | 0.25                  | 1.0                  | 2                     |                          |
| 150  | 150                   | 79              | 82    | 14-44                        | 28 | 9.8  | 27   | 82.9  | 94   | M10                           | 1.65           | 1.30                                | 155                             | 2020                   | 145                   | 0.2                   | 0.5                  | 1.5                   | 6900                     |
|      |                       | 90              |       |                              |    |      |      |       |      | 84                            | 1.75           | 1.37                                | 105                             | 595                    | 85                    | 0.25                  | 0.8                  | 2                     |                          |
| 300  | 300                   | 90              | 110   | 30-60                        | 40 | 11.8 | 32.5 | 110   | 120  | M12                           | 2.90           | 5.50                                | 502                             | 6300                   | 280                   | 0.2                   | 0.5                  | 1.5                   | 6000                     |
|      |                       | 101             |       |                              |    |      |      |       |      | 145                           | 3.00           | 5.62                                | 285                             | 1400                   | 145                   | 0.25                  | 0.8                  | 2                     |                          |
| 500  | 500                   | 100             | 122   | 35-70                        | 42 | 13.3 | 36   | 122   | 142  | M12                           | 4.55           | 9.00                                | 690                             | 7790                   | 100                   | 0.2                   | 0.5                  | 1.5                   | 5000                     |
|      |                       | 111             |       |                              |    |      |      |       |      | 145                           | 4.70           | 9.15                                | 320                             | 970                    | 85                    | 0.25                  | 1                    | 2                     |                          |
| 1400 | 1400                  | 140             | 157   | 50-80                        | 55 | 22.5 | 55   | 170.3 | 171  | 2xM20                         | 10.50          | 45                                  | 1270                            | 700                    | 275                   | 0.2                   | 0.8                  | 1.8                   | 5000                     |
|      |                       |                 |       |                              |    |      |      |       |      | 470                           |                |                                     |                                 |                        |                       |                       |                      |                       |                          |

## Material

bellows - stainless steel  
collet clamps - to Size 500: high-tensile aluminium  
collet clamps - Size 1400: Steel  
flanges - steel

## Hub

bore tolerance: H7

## Temperature Range

-30 °C ~ 120 °C  
-30 °C ~ 250 °C (Size 1400)

## Keyway

optional acc. DIN 6885  
biggest bore marked with a #

| Size | Dimensions (mm)              |      |      |      |                              |
|------|------------------------------|------|------|------|------------------------------|
|      | G1                           | Ø D5 | Ø Dt | Ø Dz | G2                           |
|      | Screw<br>(ISO4762) / TA (Nm) |      | PCD  | H7   | Screw<br>(ISO4017) / TA (Nm) |
| 18   | 8 x M4 / 4.5Nm               | 63.5 | 31.5 | 40   | 8 x M5 / 7.6Nm               |
| 30   | 8 x M5 / 8Nm                 | 74   | 40   | 50   | 8 x M6 / 13.2Nm              |
| 60   | 8 x M5 / 8Nm                 | 86   | 50   | 63   | 8 x M6 / 13.2Nm              |
| 150  | 8 x M6 / 15Nm                | 104  | 63   | 80   | 12 x M6 / 13.2Nm             |
| 300  | 12 x M6 / 15Nm               | 132  | 80   | 100  | 12 x M8 / 31.8Nm             |
| 500  | 12 x M8 / 40Nm               | 155  | 100  | 130  | 12 x M10 / 63Nm              |
| 1400 | 16 x M8 / 40Nm               | 184  | 125  | 160  | 12 x M10 / 63Nm              |

\*Note:  
Screw arrangement  
from size 800 onwards

