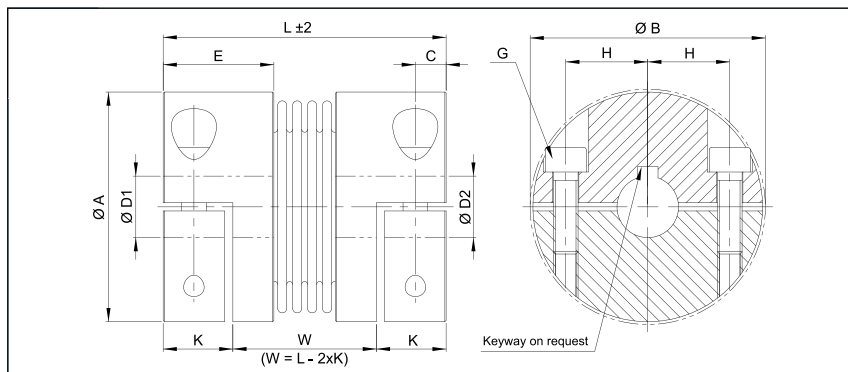


Metal Bellows Coupling  
with split hubs

# KB4H



optional  
laserwelded  
optional full stainless  
steel version



Order Code

**KB4H / 60 - 83 - 20 - 20 - (S)**

Type / Size

Length  
L

ØD1  
(H7)

ØD2  
(H7)

Options

| Size | Torque<br>TKN<br>(Nm) | Dimensions (mm) |            |                               |    |      |      |    |      |      |                               | Technical Data |                                                  |                                             |                        |                       |                       |                      |                       |                                       |
|------|-----------------------|-----------------|------------|-------------------------------|----|------|------|----|------|------|-------------------------------|----------------|--------------------------------------------------|---------------------------------------------|------------------------|-----------------------|-----------------------|----------------------|-----------------------|---------------------------------------|
|      |                       | L               | Ø A        | Ø D1/D2                       | H  | C    | E    | W  | K    | Ø B  | G                             | Mass<br>(kg)   | Moment<br>of Inertia<br>J<br>(g m <sup>2</sup> ) | Spring Stiffness                            |                        |                       | Misalignment          |                      |                       | max.<br>speed<br>(min <sup>-1</sup> ) |
|      |                       | Length<br>(±2)  | Outer<br>Ø | Bore Sizes<br>(H7)<br>min-max |    |      |      |    |      |      | Screw<br>(ISO4762)<br>TA (Nm) |                |                                                  | torsional<br>CT 10 <sup>3</sup><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  | 19.5 | 37 | 13   | 47.4 | M5                            | 0.1            | 0.04                                             | 20                                          | 205                    | 50                    | 0.2                   | 0.5                  | 1.5                   | 12800                                 |
|      |                       | 71              |            |                               |    |      |      | 45 |      |      | 8                             | 0.15           | 0.05                                             | 15                                          | 82                     | 36                    | 0.25                  | 0.5                  | 2                     | 12800                                 |
| 30   | 30                    | 69              | 56         | 10-32                         | 20 | 7.5  | 27   | 35 | 17   | 56.4 | M6                            | 0.3            | 0.14                                             | 38                                          | 720                    | 50                    | 0.15                  | 0.6                  | 1.5                   | 10300                                 |
|      |                       | 77              |            |                               |    |      |      | 43 |      |      | 15                            | 0.32           | 0.15                                             | 28                                          | 225                    | 28                    | 0.25                  | 1                    | 2                     | 10300                                 |
| 60   | 60                    | 83              | 66         | 12-35                         | 23 | 9.5  | 31   | 41 | 21   | 66.2 | M8                            | 0.5            | 0.28                                             | 75                                          | 1150                   | 90                    | 0.15                  | 0.6                  | 1.5                   | 8700                                  |
|      |                       | 93              |            |                               |    |      |      | 51 |      |      | 40                            | 0.6            | 0.29                                             | 50                                          | 340                    | 50                    | 0.25                  | 1                    | 2                     | 8700                                  |
| 80   | 80                    | 94              | 82         | 12-44                         | 28 | 11   | 36   | 47 | 23.5 | 82.9 | M10                           | 0.9            | 0.65                                             | 128                                         | 1200                   | 80                    | 0.2                   | 0.5                  | 1.5                   | 6900                                  |
|      |                       | 106             |            |                               |    |      |      | 59 |      |      | 84                            | 0.95           | 0.67                                             | 75                                          | 400                    | 50                    | 0.25                  | 0.8                  | 2                     | 6900                                  |
| 150  | 150                   | 95              | 82         | 14-44                         | 28 | 11   | 36   | 48 | 23.5 | 82.9 | M10                           | 0.9            | 0.82                                             | 155                                         | 2020                   | 145                   | 0.2                   | 0.5                  | 1.5                   | 6900                                  |
|      |                       | 107             |            |                               |    |      |      | 60 |      |      | 84                            | 0.95           | 0.86                                             | 105                                         | 595                    | 85                    | 0.25                  | 0.8                  | 2                     | 6900                                  |
| 200  | 200                   | 105             | 90         | 16-47                         | 31 | 12.5 | 41   | 51 | 27   | 90.8 | M12                           | 1.3            | 2.2                                              | 175                                         | 2500                   | 145                   | 0.2                   | 0.5                  | 1.5                   | 6400                                  |
|      |                       | 117             |            |                               |    |      |      | 63 |      |      | 125                           | 1.35           | 2.7                                              | 120                                         | 460                    | 82                    | 0.25                  | 0.8                  | 2                     | 6400                                  |
| 300  | 300                   | 111             | 110        | 20-60                         | 40 | 13   | 41   | 55 | 28   | 110  | M12                           | 1.8            | 4.2                                              | 502                                         | 6300                   | 280                   | 0.2                   | 0.5                  | 1.5                   | 6000                                  |
|      |                       | 125             |            |                               |    |      |      | 69 |      |      | 145                           | 1.85           | 5.2                                              | 285                                         | 1400                   | 145                   | 0.25                  | 0.8                  | 2                     | 6000                                  |
| 500  | 500                   | 133             | 122        | 25-70                         | 42 | 15   | 51   | 62 | 35.5 | 122  | M12                           | 2.50           | 8.6                                              | 690                                         | 7790                   | 100                   | 0.2                   | 0.5                  | 1.5                   | 5000                                  |
|      |                       | 146             |            |                               |    |      |      | 75 |      |      | 145                           | 2.51           | 9.3                                              | 320                                         | 970                    | 85                    | 0.25                  | 1                    | 2                     | 5000                                  |
| 800  | 800                   | 168             | 157        | 40-80                         | 55 | 22.5 | 66.5 | 77 | 45.5 | 168  | M20<br>400                    | 14.8           | 57.65                                            | 1270                                        | 700                    | 275                   | 0.2                   | 0.8                  | 1.8                   | 5000                                  |
| 1400 | 1400                  | 168             | 157        | 50-80                         | 55 | 22.5 | 66.5 | 77 | 45.5 | 168  | M20<br>400                    | 15.3           | 58.70                                            | 1270                                        | 700                    | 275                   | 0.2                   | 0.8                  | 1.8                   | 5000                                  |

## Material

bellows - stainless steel  
hub - to size 500: aluminium  
hub - from size 800: steel

## Hub

bore tolerance: H7

## Temperature Range

-30 °C ~ 120 °C  
size 800/1400: -30 °C ~ 250 °C

## Keyway

optional acc. DIN 6885  
biggest bore marked with a #