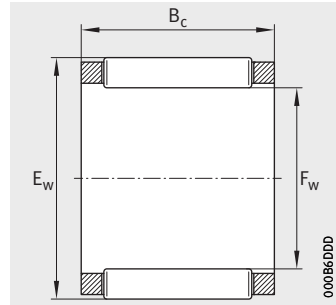
# Needle roller and cage assemblies for piston pins




KBK

**Dimension table** · Dimensions in mm

| Dimensions | | | Basic load ratings | | Fatigue limit load | Mass | Designation[1)2)] |
|---|---|---|---|---|---|---|---|
| $F_w$ | $E_w$ | $B_C$ | dyn. $C_r$ | stat. $C_{0r}$ | $C_{ur}$ | m | |
| | | | N | N | N | ≈ g | |
| **8** | 11 | 10 | 3 450 | 3 450 | 435 | 3 | **KBK8×11×10** |
| **9** | 12 | 10 | 3 700 | 3 900 | 495 | 4 | **KBK9×12×10** |
| **9** | 12 | 11,7 | 4 200 | 4 600 | 620 | 4 | **KBK9×12×11,7** |
| **9** | 13 | 12,5 | 6 000 | 6 100 | 780 | 4,3 | **KBK9×13×12,5** |
| **10** | 13 | 12,5 | 5 000 | 5 900 | 700 | 4 | **KBK10×13×12,5** |
| **10** | 13 | 14,5 | 5 400 | 6 600 | 900 | 4 | **KBK10×13×14,5** |
| **10** | 14 | 10 | 4 800 | 4 700 | 590 | 4,6 | **KBK10×14×10** |
| **10** | 14 | 12,7 | 6 500 | 6 900 | 850 | 5 | **KBK10×14×12,7** |
| **10** | 14 | 13 | 6 000 | 6 200 | 760 | 5,8 | **KBK10×14×13** |
| **11** | 14 | 15 | 6 600 | 8 600 | 1 798 | 3 | **KBK11×14×15** |
| **12** | 15 | 15 | 6 000 | 7 900 | 1 090 | 5 | **KBK12×15×15** |
| **12** | 15 | 17,5 | 7 800 | 11 000 | 1 580 | 6 | **KBK12×15×17,5** |
| **12** | 16 | 13 | 6 900 | 7 800 | 1 010 | 7 | **KBK12×16×13** |
| **12** | 16 | 16 | 8 000 | 9 500 | 1 180 | 8 | **KBK12×16×16** |
| **12** | 17 | 13 | 7 600 | 7 700 | 950 | 8 | **KBK12×17×13** |
| **12** | 17 | 14,4 | 9 600 | 10 400 | 1 280 | 8,5 | **KBK12×17×14,4** |
| **13** | 16 | 14 | 6 200 | 8 300 | 990 | 5,5 | **KBK13×16×14** |
| **13** | 17 | 14,5 | 8 500 | 10 400 | 1 280 | 8 | **KBK13×17×14,5** |
| **13** | 17 | 17,5 | 9 100 | 11 300 | 1 430 | 10 | **KBK13×17×17,5** |
| **14** | 17 | 20 | 9 400 | 14 700 | 1 910 | 8 | **KBK14×17×20** |
| **14** | 18 | 17 | 9 100 | 11 600 | 1 400 | 9 | **KBK14×18×17** |
| **15** | 19 | 17 | 8 900 | 11 500 | 1 440 | 9 | **KBK15×19×17** |
| **15** | 19 | 19,5 | 10 600 | 14 600 | 1 860 | 12,6 | **KBK15×19×19,5** |
| **15** | 19 | 20 | 11 300 | 15 500 | 2 100 | 12,8 | **KBK15×19×20** |
| **15** | 19 | 24 | 12 400 | 17 600 | 2 300 | 11 | **KBK15×19×24** |
| **16** | 20 | 20 | 11 800 | 16 900 | 2 280 | 13 | **KBK16×20×20** |
| **18** | 22 | 22 | 13 500 | 20 700 | 2 800 | 16,9 | **KBK18×22×22** |
| **18** | 22 | 24 | 14 100 | 22 000 | 3 050 | 18 | **KBK18×22×24** |
| **18** | 23 | 23,15 | 16 700 | 23 500 | 2 900 | 22 | **KBK18×23×23,15** |
| **20** | 25 | 22 | 16 200 | 23 300 | 3 050 | 20 | **KBK20×25×22** |
| **20** | 25 | 23,15 | 17 400 | 25 500 | 3 150 | 28 | **KBK20×25×23,15** |
| **22** | 27 | 25 | 20 500 | 32 500 | 4 100 | 30 | **KBK22×27×25** |

**Other dimensions available by agreement.**

1) The needle roller and cage assemblies are available by agreement only (subject to availability). Production is dependent on economically viable quantities.

2) The designation describes the dimensions only. For a precise ordering designation, please contact Schaeffler.