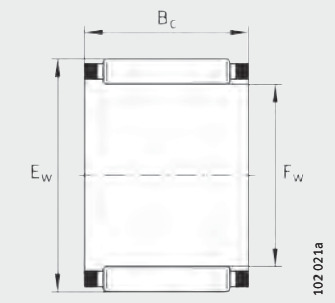
# Needle roller and cage assemblies

Single row




K..-TV

**Dimension table** · Dimensions in mm

| Designation | Mass | Dimensions | | | Basic load ratings | | Fatigue limit load | Limiting speed | Reference speed |
|---|---|---|---|---|---|---|---|---|---|
| | m | $F_w$ | $E_w$ | $B_c$ | dyn. $C_r$ | stat. $C_{0r}$ | $C_{ur}$ | $n_G$ | $n_B$ |
| | ≈g | | | | N | N | N | $min^{-1}$ | $min^{-1}$ |
| **K3X5X7-TV** | 0,3 | **3** | 5 | 7 | 1 540 | 1 290 | 152 | 50 000 | 78 000 |
| **K3X5X9-TV** | 0,4 | **3** | 5 | 9 | 1 710 | 1 480 | 188 | 50 000 | 80 000 |
| **K3X6X7-TV** | 0,4 | **3** | 6 | 7 | 1 430 | 970 | 109 | 47 000 | 75 000 |
| **K4X7X7-TV** | 0,5 | **4** | 7 | 7 | 1 740 | 1 270 | 145 | 42 500 | 59 000 |
| **K4X7X10-TV** | 0,7 | **4** | 7 | 10 | 2 330 | 1 840 | 236 | 42 500 | 59 000 |
| **K5X8X8-TV** | 0,7 | **5** | 8 | 8 | 2 350 | 1 920 | 237 | 39 000 | 48 000 |
| **K5X8X10-TV** | 0,9 | **5** | 8 | 10 | 3 000 | 2 650 | 350 | 39 000 | 47 000 |
| **K6X9X8-TV** | 0,8 | **6** | 9 | 8 | 2 600 | 2 280 | 285 | 36 500 | 41 000 |
| **K6X9X10-TV** | 1 | **6** | 9 | 10 | 3 350 | 3 150 | 420 | 36 500 | 40 000 |
| **K6X10X13-TV** | 1 | **6** | 10 | 13 | 3 800 | 3 100 | 395 | 35 500 | 40 000 |
| **K7X9X7-TV** | 0,6 | **7** | 9 | 7 | 1 730 | 1 770 | 215 | 35 500 | 40 000 |
| **K7X10X8-TV** | 0,9 | **7** | 10 | 8 | 2 850 | 2 650 | 330 | 34 500 | 36 000 |
| **K7X10X10-TV** | 1 | **7** | 10 | 10 | 3 650 | 3 600 | 485 | 34 500 | 35 000 |
| **K8X11X8-TV** | 1,1 | **8** | 11 | 8 | 3 100 | 3 000 | 375 | 32 500 | 32 000 |
| **K8X11X10-TV** | 1,2 | **8** | 11 | 10 | 3 950 | 4 100 | 560 | 32 500 | 31 000 |
| **K8X11X13-TV** | 1,7 | **8** | 11 | 13 | 5 100 | 5 800 | 790 | 32 500 | 30 500 |
| **K8X12X10-TV** | 2 | **8** | 12 | 10 | 5 000 | 4 700 | 560 | 31 500 | 29 000 |
| **K9X12X10-TV** | 2 | **9** | 12 | 10 | 4 500 | 5 000 | 680 | 31 000 | 27 500 |
| **K9X12X13-TV** | 2,1 | **9** | 12 | 13 | 5 900 | 7 100 | 970 | 31 000 | 27 000 |
| **K10X13X10-TV** | 2 | **10** | 13 | 10 | 4 750 | 5 500 | 750 | 29 500 | 24 900 |
| **K10X13X13-TV** | 2 | **10** | 13 | 13 | 6 200 | 7 800 | 1 060 | 29 500 | 24 400 |
| **K10X13X16-TV** | 2,9 | **10** | 13 | 16 | 7 100 | 9 300 | 1 310 | 29 500 | 24 600 |
| **K10X14X10-TV** | 2,5 | **10** | 14 | 10 | 5 800 | 6 000 | 720 | 29 000 | 23 500 |
| **K10X14X13-TV** | 4,6 | **10** | 14 | 13 | 7 500 | 8 400 | 1 020 | 29 000 | 23 000 |
| **K10X16X12-TV** | 5 | **10** | 16 | 12 | 8 100 | 7 200 | 1 000 | 27 500 | 21 800 |
| **K12X15X10-TV** | 2,9 | **12** | 15 | 10 | 4 900 | 6 100 | 830 | 27 000 | 21 500 |
| **K12X15X13-TV** | 2,3 | **12** | 15 | 13 | 6 400 | 8 500 | 1 170 | 27 000 | 21 100 |
| **K12X16X13-TV** | 3,6 | **12** | 16 | 13 | 8 000 | 9 400 | 1 150 | 26 500 | 19 900 |
| **K12X17X13-TV** | 4,9 | **12** | 17 | 13 | 9 600 | 10 400 | 1 330 | 26 500 | 18 800 |
| **K12X18X12-TV** | 6 | **12** | 18 | 12 | 10 000 | 9 900 | 1 400 | 26 000 | 18 100 |