

## BKN

All dimensions in mm.

Using standard shaft nut type RN.

\* The Maximal tightening torque of the nut should not be exceeded. It is not required, neither recommended to tighten the nut to its limits. What is mandatory is to always tighten the set screws to prescribed values, after the nut have been tighten to a distinct stop.



## General Data

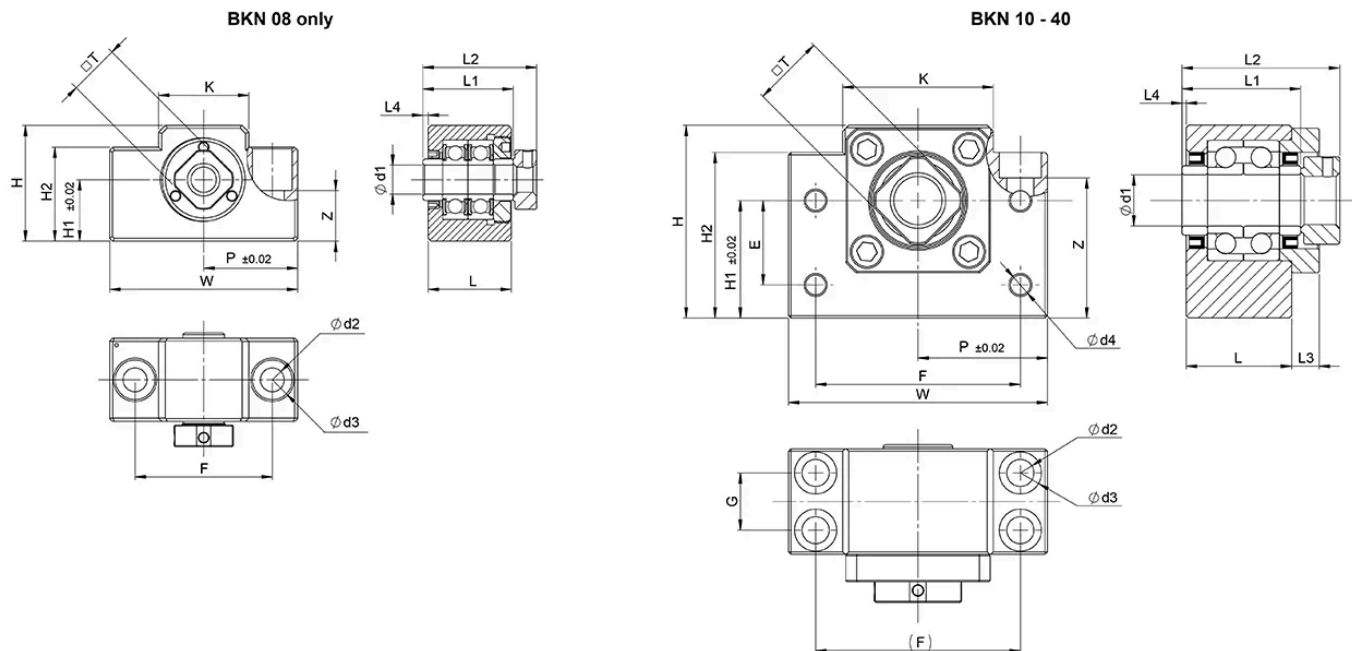
\* Dynamic limits are the loads where a reliable life time calculation isn't possible to do. Noise level and heat generation will also increase rapidly above this limit. Static limit is calculated with a static safety factor  $s_0 = 2,5$  to  $C_{0a}$ . See more in section "Life Calculation" or contact Rollco for advise.

\*Axial dynamic rating  $C_a$  is used to calculate the nominal life of the bearings. Axial static rating  $C_{0a}$  is a theoretical value where the bearings get permanent damaged. See more in section "Life Calculation" or contact Rollco for advise.

| Designation  | Compatible with                      | Bearing | Dynamic Permissible Axial Load (N) | Static Permissible Axial Load (N) | Max. Tightening Torque Nut (Nm)* |
|--------------|--------------------------------------|---------|------------------------------------|-----------------------------------|----------------------------------|
| <b>BKN08</b> | Screw dim. 1202 / 1204               | 708 A   | 1020                               | 1760                              | 3                                |
| <b>BKN10</b> | Screw dim. 1402                      | 7000 A  | 2000                               | 3150                              | 3                                |
| <b>BKN12</b> | Screw dim. 1605 / 1610 / 1616 / 1632 | 7001 A  | 2400                               | 3600                              | 7                                |
| <b>BKN15</b> | Screw dim. 2005 / 2020 / 2040        | 7002 A  | 2900                               | 4200                              | 8                                |
| <b>BKN17</b> | Screw dim. 2510                      | 7203 A  | 4100                               | 7300                              | 10                               |
| <b>BKN20</b> | Screw dim. 2505 / 2525 / 2550        | 7004 A  | 5800                               | 8000                              | 17                               |
| <b>BKN25</b> | Screw dim. 3205 / 3210 / 3220 / 3232 | 7205 B  | 9700                               | 14500                             | 21                               |
| <b>BKN30</b> | Screw dim. 4005 / 4010 / 4020 / 4040 | 7206 B  | 14200                              | 20800                             | 32                               |
| <b>BKN40</b> | Screw dim. 5010 / 5050               | 7208 B  | 18000                              | 35400                             | 72                               |

| Designation  | Tightening Torque Set Screws (Nm) | Axial Dynamic Load Capacity $C_a$ (N) | Axial Static Load Capacity $C_{0a}$ (N) |
|--------------|-----------------------------------|---------------------------------------|-----------------------------------------|
| <b>BKN08</b> | 0.6                               | 4410                                  | 4390                                    |
| <b>BKN10</b> | 0.6                               | 7040                                  | 7880                                    |
| <b>BKN12</b> | 1.5                               | 7600                                  | 9000                                    |
| <b>BKN15</b> | 1.5                               | 8000                                  | 10500                                   |
| <b>BKN17</b> | 1.5                               | 14200                                 | 18200                                   |
| <b>BKN20</b> | 1.5                               | 14200                                 | 20000                                   |
| <b>BKN25</b> | 5.0                               | 26000                                 | 36200                                   |
| <b>BKN30</b> | 5.0                               | 36000                                 | 51900                                   |
| <b>BKN40</b> | 5.0                               | 56100                                 | 88500                                   |

## Dimensions



| Designation | E  | F   | G  | H   | K   | L  | P  | T  | Z    |
|-------------|----|-----|----|-----|-----|----|----|----|------|
| BKN08       | -  | 38  | -  | 32  | 25  | 23 | 26 | 14 | 14   |
| BKN10       | 15 | 46  | 13 | 39  | 34  | 25 | 30 | 16 | 27.5 |
| BKN12       | 18 | 46  | 13 | 43  | 34  | 25 | 30 | 19 | 31   |
| BKN15       | 18 | 54  | 15 | 48  | 40  | 27 | 35 | 22 | 31.5 |
| BKN17       | 28 | 68  | 19 | 64  | 50  | 35 | 43 | 24 | 46.5 |
| BKN20       | 22 | 70  | 19 | 60  | 52  | 35 | 44 | 30 | 41.5 |
| BKN25       | 33 | 85  | 22 | 80  | 64  | 42 | 53 | 35 | 59   |
| BKN30       | 33 | 102 | 23 | 89  | 76  | 45 | 64 | 40 | 65   |
| BKN40       | 37 | 130 | 33 | 110 | 100 | 61 | 80 | 50 | 72.5 |

| Designation | d1 | d2  | D3   | D4  | H1 | H2   | L1 | L2   | L3 | L4  |
|-------------|----|-----|------|-----|----|------|----|------|----|-----|
| BKN08       | 8  | 6.6 | 11   | -   | 17 | 26   | 25 | 31.5 | -  | 1.5 |
| BKN10       | 10 | 6.6 | 10.8 | 5.5 | 22 | 32.5 | 27 | 35   | 5  | 0.5 |
| BKN12       | 12 | 6.6 | 10.8 | 5.5 | 25 | 32.5 | 27 | 35   | 5  | 0.5 |
| BKN15       | 15 | 6.6 | 11   | 5.5 | 28 | 38   | 30 | 38   | 6  | 0   |
| BKN17       | 17 | 9   | 14   | 6.6 | 39 | 55   | 38 | 51   | 9  | 0   |
| BKN20       | 20 | 9   | 14   | 6.6 | 34 | 50   | 40 | 51   | 8  | 0   |
| BKN25       | 25 | 11  | 17   | 9   | 48 | 70   | 48 | 63   | 12 | 0   |
| BKN30       | 30 | 14  | 20   | 11  | 51 | 78   | 50 | 70   | 14 | 0   |
| BKN40       | 40 | 18  | 26   | 14  | 60 | 90   | 66 | 91   | 18 | 0   |

| Designation | W  |
|-------------|----|
| BKN08       | 52 |
| BKN10       | 60 |
| BKN12       | 60 |
| BKN15       | 70 |
| BKN17       | 86 |

| Designation | W   |
|-------------|-----|
| BKN20       | 88  |
| BKN25       | 106 |
| BKN30       | 128 |
| BKN40       | 160 |