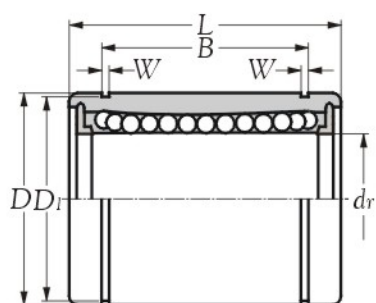
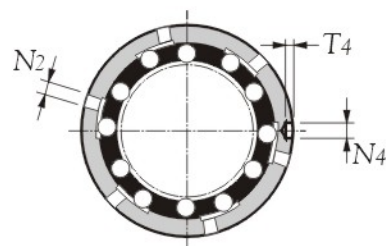
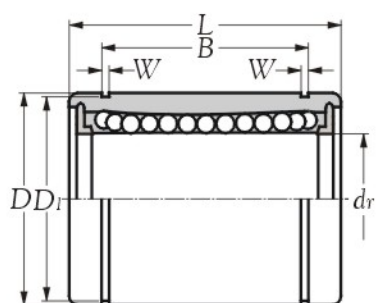


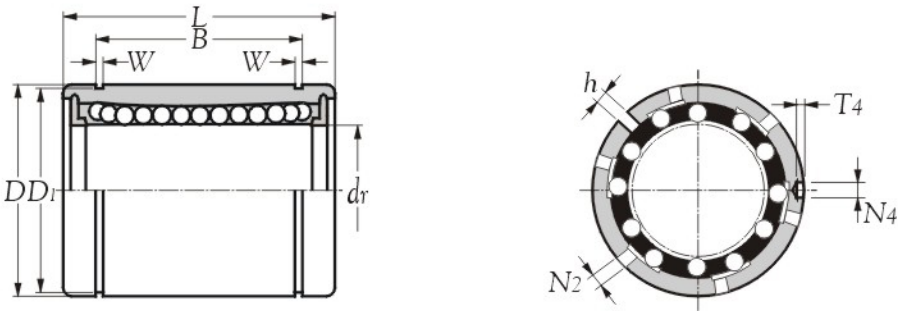
| Inner<br>bore<br>$d$<br>mm | Bearing number             |                              | Number<br>of ball<br>tracks | Principal dimensions |          |           |         |           |          |
|----------------------------|----------------------------|------------------------------|-----------------------------|----------------------|----------|-----------|---------|-----------|----------|
|                            | standard<br>resin retainer | with seals<br>resin retainer |                             | $d_r$                |          | $D$       |         | $L$       |          |
|                            |                            |                              |                             | tolerance            |          | tolerance |         | tolerance |          |
|                            |                            |                              |                             | mm                   | 0.001mm  | mm        | 0.001mm | mm        | mm       |
| 5                          | KB 5                       | KB 5 PP AS                   | 3                           | 5                    | (+8/0)   | 12        | (0/-8)  | 22        | (0/-0.2) |
| 8                          | KB 8                       | KB 8 PP AS                   | 4                           | 8                    | (+8/0)   | 16        | (0/-8)  | 25        | (0/-0.2) |
| 12                         | KB 12                      | KB 12 PP AS                  | 4                           | 12                   | (+8/0)   | 22        | (0/-9)  | 32        | (0/-0.2) |
| 16                         | KB 16                      | KB 16 PP AS                  | 5                           | 16                   | (+9/-1)  | 26        | (0/-9)  | 36        | (0/-0.2) |
| 20                         | KB 20                      | KB 20 PP AS                  | 5                           | 20                   | (+9/-1)  | 32        | (0/-11) | 45        | (0/-0.2) |
| 25                         | KB 25                      | KB 25 PP AS                  | 6                           | 25                   | (+11/-1) | 40        | (0/-11) | 58        | (0/-0.3) |
| 30                         | KB 30                      | KB 30 PP AS                  | 6                           | 30                   | (+11/-1) | 47        | (0/-11) | 68        | (0/-0.3) |
| 40                         | KB 40                      | KB 40 PP AS                  | 6                           | 40                   | (+13/-2) | 62        | (0/-13) | 80        | (0/-0.3) |
| 50                         | KB 50                      | KB 50 PP AS                  | 6                           | 50                   | (+13/-2) | 75        | (0/-13) | 100       | (0/-0.3) |
| 60                         | KB 60                      | KB 60 PP AS                  | 6                           | 60                   | (+13/-2) | 90        | (0/-15) | 125       | (0/-0.4) |

Notes: All of the ball tracks are followed THK specification.

| Technical supplement |           |              |        |
|----------------------|-----------|--------------|--------|
|                      | Cages     | Precision    | Grease |
|                      | Steel -   | X            |        |
|                      | Polymid - | ✓            |        |
|                      | Brass -   | X            |        |
|                      |           | Normal (ISO) | Nil    |



| Principal dimensions |          |                |         | Roundness | Steel retainer<br>maximum<br>radial<br>clearance | Resin retainer<br>maximum<br>radial<br>clearance | Load ratings   |          | Weight   |       |
|----------------------|----------|----------------|---------|-----------|--------------------------------------------------|--------------------------------------------------|----------------|----------|----------|-------|
| B                    | W        | D <sub>1</sub> | dynamic |           |                                                  |                                                  | static         | steel    | resin    |       |
| tolerance            |          |                | C       |           |                                                  |                                                  | C <sub>0</sub> | retainer | retainer |       |
| mm                   |          |                |         | 0.001mm   | 0.001mm                                          | 0.001mm                                          | N              |          | kg(s).   |       |
| 14.5                 | (0/-0.2) | 1.10           | 11.5    | 12        | -                                                | -5                                               | 206            | 265      | -        | 0.011 |
| 16.5                 | (0/-0.2) | 1.10           | 15.2    | 12        | -3                                               | -5                                               | 265            | 402      | 0.022    | 0.020 |
| 22.9                 | (0/-0.2) | 1.30           | 21.0    | 12        | -4                                               | -7                                               | 510            | 784      | 0.045    | 0.041 |
| 24.9                 | (0/-0.2) | 1.30           | 24.9    | 12        | -4                                               | -7                                               | 578            | 892      | 0.060    | 0.065 |
| 31.5                 | (0/-0.2) | 1.60           | 30.3    | 15        | -6                                               | -9                                               | 862            | 1370     | 0.102    | 0.091 |
| 44.1                 | (0/-0.3) | 1.85           | 37.5    | 15        | -6                                               | -9                                               | 980            | 1570     | 0.235    | 0.215 |
| 52.1                 | (0/-0.3) | 1.85           | 44.5    | 15        | -8                                               | -9                                               | 1570           | 2740     | 0.360    | 0.325 |
| 60.6                 | (0/-0.3) | 2.15           | 59.0    | 17        | -8                                               | -13                                              | 2160           | 4020     | 0.770    | 0.705 |
| 77.6                 | (0/-0.3) | 2.65           | 72.0    | 17        | -13                                              | -13                                              | 3820           | 7940     | 1.250    | 1.130 |
| 101.7                | (0/-0.4) | 3.15           | 86.5    | 20        | -13                                              | -16                                              | 4700           | 9800     | 2.220    | 2.220 |



| Inner<br>bore<br><i>d</i><br>mm | Bearing number             |                              | Number<br>of ball<br>tracks | Principal dimensions |          |           |         |           |          |
|---------------------------------|----------------------------|------------------------------|-----------------------------|----------------------|----------|-----------|---------|-----------|----------|
|                                 | standard<br>resin retainer | with seals<br>resin retainer |                             | <i>d<sub>r</sub></i> |          | <i>D</i>  |         | <i>L</i>  |          |
|                                 |                            |                              |                             | tolerance            |          | tolerance |         | tolerance |          |
|                                 |                            |                              |                             | mm                   | 0.001mm  | mm        | 0.001mm | mm        | mm       |
| 5                               | KBS 5                      | KBS 5 PP AS                  | 3                           | 5                    | (+8/0)   | 12        | (0/-8)  | 22        | (0/-0.2) |
| 8                               | KBS 8                      | KBS 8 PP AS                  | 4                           | 8                    | (+8/0)   | 16        | (0/-8)  | 25        | (0/-0.2) |
| 12                              | KBS 12                     | KBS 12 PP AS                 | 4                           | 12                   | (+8/0)   | 22        | (0/-9)  | 32        | (0/-0.2) |
| 16                              | KBS 16                     | KBS 16 PP AS                 | 5                           | 16                   | (+9/-1)  | 26        | (0/-9)  | 36        | (0/-0.2) |
| 20                              | KBS 20                     | KBS 20 PP AS                 | 5                           | 20                   | (+9/-1)  | 32        | (0/-11) | 45        | (0/-0.2) |
| 25                              | KBS 25                     | KBS 25 PP AS                 | 6                           | 25                   | (+11/-1) | 40        | (0/-11) | 58        | (0/-0.3) |
| 30                              | KBS 30                     | KBS 30 PP AS                 | 6                           | 30                   | (+11/-1) | 47        | (0/-11) | 68        | (0/-0.3) |
| 40                              | KBS 40                     | KBS 40 PP AS                 | 6                           | 40                   | (+13/-2) | 62        | (0/-13) | 80        | (0/-0.3) |
| 50                              | KBS 50                     | KBS 50 PP AS                 | 6                           | 50                   | (+13/-2) | 75        | (0/-13) | 100       | (0/-0.3) |
| 60                              | KBS 60                     | KBS 60 PP AS                 | 6                           | 60                   | (+13/-2) | 90        | (0/-15) | 125       | (0/-0.4) |

Notes: All of the ball tracks ae followed THK specification.

Technical supplement

Cages

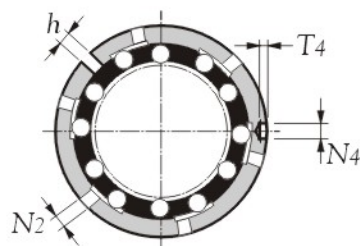
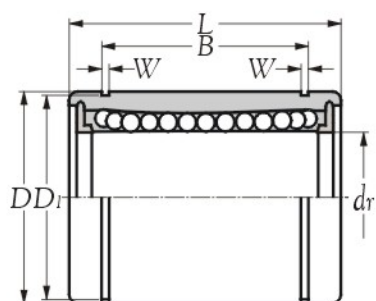
Steel - X  
Polymid - ✓  
Brass - X

Precision

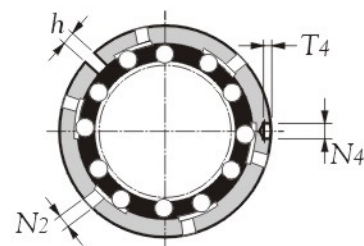
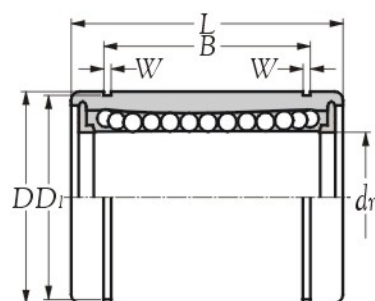
Normal (ISO)

Grease

Nil



| B<br>tolerance | Principal dimensions |                |     |    | Roundness<br>0.001 mm | Steel retainer<br>maximum<br>radial<br>clearance<br>0.001 mm | Resin retainer<br>maximum<br>radial<br>clearance<br>0.001 mm | Load ratings      |                          | Weight                      |                             |
|----------------|----------------------|----------------|-----|----|-----------------------|--------------------------------------------------------------|--------------------------------------------------------------|-------------------|--------------------------|-----------------------------|-----------------------------|
|                | W                    | D <sub>1</sub> | h   | mm |                       |                                                              |                                                              | dynamic<br>C<br>N | static<br>C <sub>0</sub> | steel<br>retainer<br>kg(s). | resin<br>retainer<br>kg(s). |
| 14.5 (0/-0.2)  | 1.10                 | 11.5           | 1.0 |    | 12                    | -                                                            | -5                                                           | 206               | 265                      | 0.011                       | -                           |
| 16.5 (0/-0.2)  | 1.10                 | 15.2           | 1.0 |    | 12                    | -3                                                           | -5                                                           | 265               | 402                      | 0.020                       | 0.022                       |
| 22.9 (0/-0.2)  | 1.30                 | 21.0           | 1.5 |    | 12                    | -4                                                           | -7                                                           | 510               | 784                      | 0.041                       | 0.045                       |
| 24.9 (0/-0.2)  | 1.30                 | 24.9           | 1.5 |    | 12                    | -4                                                           | -7                                                           | 578               | 892                      | 0.065                       | 0.060                       |
| 31.5 (0/-0.2)  | 1.60                 | 30.3           | 2.0 |    | 15                    | -6                                                           | -9                                                           | 862               | 1370                     | 0.091                       | 0.102                       |
| 44.1 (0/-0.3)  | 1.85                 | 37.5           | 2.0 |    | 15                    | -6                                                           | -9                                                           | 980               | 1570                     | 0.215                       | 0.235                       |
| 52.1 (0/-0.3)  | 1.85                 | 44.5           | 2.0 |    | 15                    | -8                                                           | -9                                                           | 1570              | 2740                     | 0.325                       | 0.360                       |
| 60.6 (0/-0.3)  | 2.15                 | 59.0           | 3.0 |    | 17                    | -8                                                           | -13                                                          | 2160              | 4020                     | 0.705                       | 0.770                       |
| 77.6 (0/-0.3)  | 2.65                 | 72.0           | 3.0 |    | 17                    | -13                                                          | -13                                                          | 3820              | 7940                     | 1.130                       | 1.250                       |
| 101.7 (0/-0.4) | 3.15                 | 86.5           | 3.0 |    | 20                    | -13                                                          | -16                                                          | 4700              | 9800                     | 2.220                       | 2.220                       |

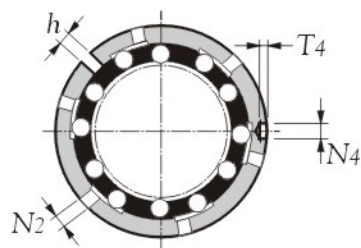
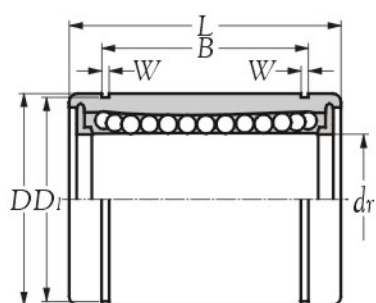


| Inner bore<br><i>d</i><br>mm | Bearing number          |                           | Number of ball tracks | Principal dimensions |          |           |         |           |          |
|------------------------------|-------------------------|---------------------------|-----------------------|----------------------|----------|-----------|---------|-----------|----------|
|                              | standard resin retainer | with seals resin retainer |                       | <i>d<sub>r</sub></i> |          | <i>D</i>  |         | <i>L</i>  |          |
|                              |                         |                           |                       | tolerance            |          | tolerance |         | tolerance |          |
|                              |                         |                           |                       | mm                   | 0.001mm  | mm        | 0.001mm | mm        | mm       |
| 12                           | KBO 12                  | KBO 12 PP AS              | 3                     | 12                   | (+8/0)   | 22        | (0/-9)  | 32        | (0/-0.2) |
| 16                           | KBO 16                  | KBO 16 PP AS              | 4                     | 16                   | (+9/-1)  | 26        | (0/-9)  | 36        | (0/-0.2) |
| 20                           | KBO 20                  | KBO 20 PP AS              | 4                     | 20                   | (+9/-1)  | 32        | (0/-11) | 45        | (0/-0.2) |
| 25                           | KBO 25                  | KBO 25 PP AS              | 5                     | 25                   | (+11/-1) | 40        | (0/-11) | 58        | (0/-0.3) |
| 30                           | KBO 30                  | KBO 30 PP AS              | 5                     | 30                   | (+11/-1) | 47        | (0/-11) | 68        | (0/-0.3) |
| 40                           | KBO 40                  | KBO 40 PP AS              | 5                     | 40                   | (+13/-2) | 62        | (0/-13) | 80        | (0/-0.3) |
| 50                           | KBO 50                  | KBO 50 PP AS              | 5                     | 50                   | (+13/-2) | 75        | (0/-13) | 100       | (0/-0.4) |
| 60                           | KBO 60                  | KBO 60 PP AS              | 5                     | 60                   | (+13/-2) | 90        | (0/-15) | 125       | (0/-0.4) |

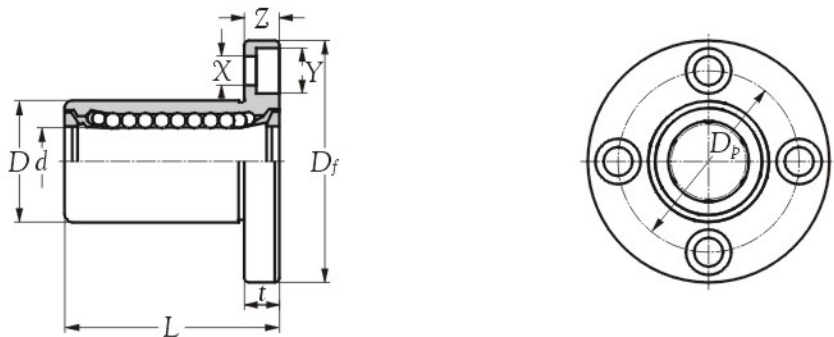
Notes: All of the ball tracks ae followed THK specification.

Technical supplement

| Cages       | Precision    | Grease |
|-------------|--------------|--------|
| Steel - X   |              |        |
| Polymid - ✓ | Normal (ISO) | Nil    |
| Brass - X   |              |        |



| Principal dimensions |          |                |                |      | Roundness | Steel retainer<br>maximum<br>radial<br>clearance | Resin retainer<br>maximum<br>radial<br>clearance | Load ratings |                          | Weight            |                   |       |
|----------------------|----------|----------------|----------------|------|-----------|--------------------------------------------------|--------------------------------------------------|--------------|--------------------------|-------------------|-------------------|-------|
| B<br>tolerance       | W        | D <sub>I</sub> | h <sub>I</sub> | θ    |           |                                                  |                                                  | dynamic<br>C | static<br>C <sub>o</sub> | steel<br>retainer | resin<br>retainer |       |
| mm                   |          |                |                |      | 0.001mm   | 0.001mm                                          | 0.001mm                                          | N            |                          | kg(s).            |                   |       |
| 22.9                 | (0/-0.2) | 1.30           | 21.0           | 7.5  | 78°       | 12                                               | -4                                               | -7           | 510                      | 784               | 0.045             | 0.041 |
| 24.9                 | (0/-0.2) | 1.30           | 24.9           | 10.0 | 78°       | 12                                               | -4                                               | -7           | 578                      | 892               | 0.060             | 0.065 |
| 31.5                 | (0/-0.2) | 1.60           | 30.3           | 10.0 | 60°       | 15                                               | -6                                               | -9           | 862                      | 1370              | 0.102             | 0.091 |
| 44.1                 | (0/-0.3) | 1.85           | 37.5           | 12.5 | 60°       | 15                                               | -6                                               | -9           | 980                      | 1570              | 0.235             | 0.215 |
| 52.1                 | (0/-0.3) | 1.85           | 44.5           | 12.5 | 50°       | 15                                               | -8                                               | -9           | 1570                     | 2740              | 0.360             | 0.325 |
| 60.6                 | (0/-0.3) | 2.15           | 59.0           | 16.8 | 50°       | 17                                               | -8                                               | -13          | 2160                     | 4020              | 0.770             | 0.705 |
| 77.6                 | (0/-0.4) | 2.65           | 72.0           | 21.0 | 50°       | 17                                               | -13                                              | -13          | 3820                     | 7940              | 1.250             | 1.130 |
| 101.7                | (0/-0.4) | 3.15           | 86.5           | 27.2 | 54°       | 20                                               | -13                                              | -16          | 4700                     | 9800              | 2.220             | 2.220 |



| Inner<br>bore<br><i>d</i><br>mm | Bearing number             |                              | Number<br>of ball<br>tracks | Principal dimensions |          |           |         |           |        |
|---------------------------------|----------------------------|------------------------------|-----------------------------|----------------------|----------|-----------|---------|-----------|--------|
|                                 | standard<br>resin retainer | with seals<br>resin retainer |                             | <i>d</i>             |          | <i>D</i>  |         | <i>L</i>  |        |
|                                 |                            |                              |                             | tolerance            |          | tolerance |         | tolerance |        |
|                                 |                            |                              |                             | mm                   | 0.001mm  | mm        | 0.001mm | mm        | mm     |
| 8                               | KBF 8                      | KBF 8 PP                     | 4                           | 8                    | (+8/0)   | 16        | (0/-13) | 25        | (±0.3) |
| 12                              | KBF 12                     | KBF 12 PP                    | 4                           | 12                   | (+8/0)   | 22        | (0/-16) | 32        | (±0.3) |
| 16                              | KBF 16                     | KBF 16 PP                    | 5                           | 16                   | (+9/-1)  | 26        | (0/-16) | 36        | (±0.3) |
| 20                              | KBF 20                     | KBF 20 PP                    | 5                           | 20                   | (+9/-1)  | 32        | (0/-19) | 45        | (±0.3) |
| 25                              | KBF 25                     | KBF 25 PP                    | 6                           | 25                   | (+11/-1) | 40        | (0/-19) | 58        | (±0.3) |
| 30                              | KBF 30                     | KBF 30 PP                    | 6                           | 30                   | (+11/-1) | 47        | (0/-19) | 68        | (±0.3) |
| 40                              | KBF 40                     | KBF 40 PP                    | 6                           | 40                   | (+13/-2) | 62        | (0/-22) | 80        | (±0.3) |
| 50                              | KBF 50                     | KBF 50 PP                    | 6                           | 50                   | (+13/-2) | 75        | (0/-22) | 100       | (±0.3) |
| 60                              | KBF 60                     | KBF 60 PP                    | 6                           | 60                   | (+13/-2) | 90        | (0/-25) | 125       | (±0.3) |

Notes: All of the ball tracks ae followed THK specification.

Technical supplement

Cages

Steel - X  
Polymid - ✓  
Brass - X

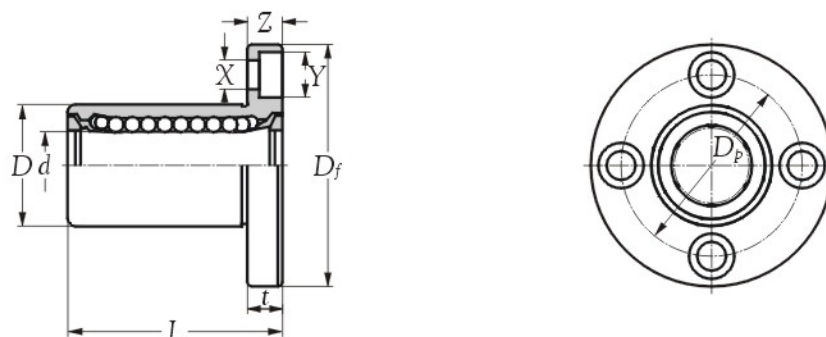
Precision

Normal (ISO)

Grease

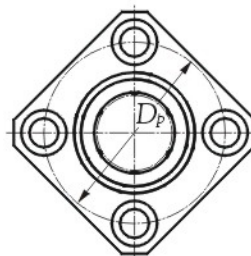
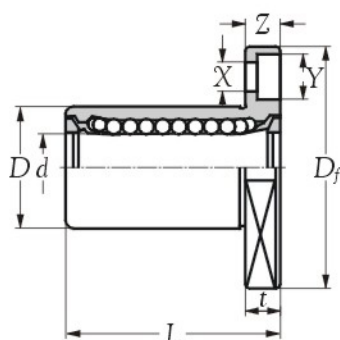
Nil





| Principa dimensions flange |     |       |                       | Roundness<br><br>0.001mm | Squareness<br><br>0.001mm | Load ratings   |                 | Weight<br><br>kg(s). |
|----------------------------|-----|-------|-----------------------|--------------------------|---------------------------|----------------|-----------------|----------------------|
| $D_f$                      | $t$ | $D_p$ | $X \times Y \times Z$ |                          |                           | dynamic<br>$C$ | static<br>$C_o$ |                      |
| mm                         |     |       |                       |                          |                           | N              |                 |                      |
| 32                         | 5   | 24    | 3.5 x 6.0 x 3.1       | 12                       | 12                        | 265            | 402             | 0.041                |
| 42                         | 6   | 32    | 4.5 x 7.5 x 4.1       | 12                       | 12                        | 510            | 784             | 0.080                |
| 46                         | 6   | 36    | 4.5 x 7.5 x 4.1       | 12                       | 12                        | 578            | 892             | 0.103                |
| 54                         | 8   | 43    | 5.5 x 9.0 x 5.1       | 15                       | 15                        | 862            | 1370            | 0.182                |
| 62                         | 8   | 51    | 5.5 x 9.0 x 5.1       | 15                       | 15                        | 980            | 1570            | 0.335                |
| 76                         | 10  | 62    | 6.6 x 11 x 6.1        | 15                       | 15                        | 1570           | 2740            | 0.560                |
| 98                         | 13  | 80    | 9.0 x 14 x 8.1        | 17                       | 17                        | 2160           | 4020            | 1.175                |
| 112                        | 13  | 94    | 9.0 x 14 x 8.1        | 17                       | 17                        | 3820           | 7940            | 1.745                |
| 134                        | 18  | 112   | 11 x 17 x 11.1        | 20                       | 20                        | 4700           | 9800            | 3.220                |

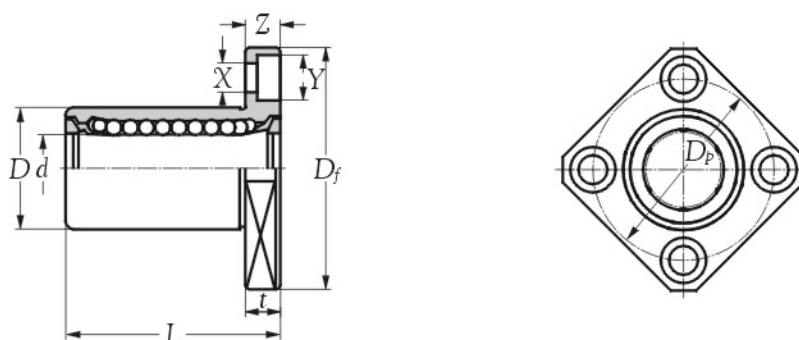




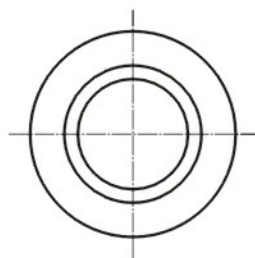
| Inner<br>bore<br>$d$<br>mm | Bearing number             |                              | Number<br>of ball<br>tracks | Principal dimensions |          |           |         |           |        |
|----------------------------|----------------------------|------------------------------|-----------------------------|----------------------|----------|-----------|---------|-----------|--------|
|                            | standard<br>resin retainer | with seals<br>resin retainer |                             | $d$                  |          | $D$       |         | $L$       |        |
|                            |                            |                              |                             | tolerance            |          | tolerance |         | tolerance |        |
|                            |                            |                              |                             | mm                   | 0.001mm  | mm        | 0.001mm | mm        | mm     |
| 8                          | KBK 8                      | KBK 8 PP                     | 4                           | 8                    | (+8/0)   | 16        | (0/-13) | 25        | (±0.3) |
| 12                         | KBK 12                     | KBK 12 PP                    | 4                           | 12                   | (+8/0)   | 22        | (0/-16) | 32        | (±0.3) |
| 16                         | KBK 16                     | KBK 16 PP                    | 5                           | 16                   | (+9/-1)  | 26        | (0/-16) | 36        | (±0.3) |
| 20                         | KBK 20                     | KBK 20 PP                    | 5                           | 20                   | (+9/-1)  | 32        | (0/-19) | 45        | (±0.3) |
| 25                         | KBK 25                     | KBK 25 PP                    | 6                           | 25                   | (+11/-1) | 40        | (0/-19) | 58        | (±0.3) |
| 30                         | KBK 30                     | KBK 30 PP                    | 6                           | 30                   | (+11/-1) | 47        | (0/-19) | 68        | (±0.3) |
| 40                         | KBK 40                     | KBK 40 PP                    | 6                           | 40                   | (+13/-2) | 62        | (0/-22) | 80        | (±0.3) |
| 50                         | KBK 50                     | KBK 50 PP                    | 6                           | 50                   | (+13/-2) | 75        | (0/-22) | 100       | (±0.3) |
| 60                         | KBK 60                     | KBK 60 PP                    | 6                           | 60                   | (+13/-2) | 90        | (0/-25) | 125       | (±0.3) |

Notes: All of the ball tracks are followed THK specification.

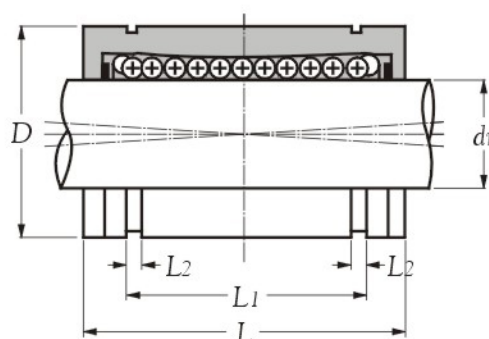
| Technical supplement |             |              |        |
|----------------------|-------------|--------------|--------|
|                      |             |              |        |
|                      | Cages       | Precision    | Grease |
|                      | Steel - X   | Normal (ISO) | Nil    |
|                      | Polymid - ✓ |              |        |
|                      | Brass - X   |              |        |



| $D_f$ | Principa dimensions flange |       |                       | Roundness | Squareness | Load ratings |        | Weight |
|-------|----------------------------|-------|-----------------------|-----------|------------|--------------|--------|--------|
|       | $t$                        | $D_p$ | $X \times Y \times Z$ |           |            | dynamic      | static |        |
|       | mm                         |       |                       |           |            | $C$          | $C_o$  |        |
|       |                            |       |                       | 0.001mm   | 0.001mm    | N            |        | kg(s). |
| 32    | 5                          | 24    | 3.5×6.0×3.1           | 12        | 12         | 265          | 402    | 0.041  |
| 42    | 6                          | 32    | 4.5×7.5×4.1           | 12        | 12         | 510          | 784    | 0.080  |
| 46    | 6                          | 36    | 4.5×7.5×4.1           | 12        | 12         | 578          | 892    | 0.103  |
| 54    | 8                          | 43    | 5.5×9.0×5.1           | 15        | 15         | 862          | 1370   | 0.182  |
| 62    | 8                          | 51    | 5.5×9.0×5.1           | 15        | 15         | 980          | 1570   | 0.335  |
| 76    | 10                         | 62    | 6.6×11×6.1            | 15        | 15         | 1570         | 2740   | 0.560  |
| 98    | 13                         | 80    | 9.0×14×8.1            | 17        | 17         | 2160         | 4020   | 1.175  |
| 112   | 13                         | 94    | 9.0×14×8.1            | 17        | 17         | 3820         | 7940   | 1.745  |
| 134   | 18                         | 112   | 11.0×17×11.1          | 20        | 20         | 4700         | 9800   | 3.220  |

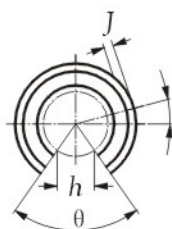


LMES..close, UU

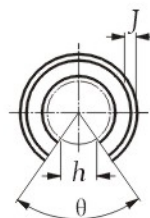
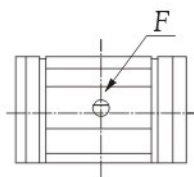


| Inner bore<br>$d_r$<br>mm | Bearing number |          | Number of ball tracks | Principal dimensions |         |                  |                  |                    |               | Basic load ratings |                 | Weight<br>kg. |
|---------------------------|----------------|----------|-----------------------|----------------------|---------|------------------|------------------|--------------------|---------------|--------------------|-----------------|---------------|
|                           |                |          |                       | $d_r$<br>tolerance   |         | $D$<br>$\pm 0.1$ | $L$<br>$\pm 0.2$ | $L_1$<br>$\pm 0.2$ | $L_2$<br>min. | dynamic<br>$C$     | static<br>$C_o$ |               |
|                           |                |          |                       | mm                   | 0.001mm | mm               |                  |                    |               | N                  |                 |               |
| 10                        | KS 10          | KS 10 PP | 5                     | 10                   | +8 ~ 0  | 19               | 29               | 21.7               | 1.35          | 750                | 550             | 0.017         |
| 12                        | KS 12          | KS 12 PP | 5                     | 12                   | +8 ~ 0  | 22               | 32               | 22.7               | 1.35          | 1230               | 1100            | 0.023         |
| 16                        | KS 16          | KS 16 PP | 5                     | 16                   | +9 ~ 1  | 26               | 36               | 24.7               | 1.35          | 1550               | 1250            | 0.028         |
| 20                        | KS 20          | KS 20 PP | 6                     | 20                   | +9 ~ 1  | 32               | 45               | 31.3               | 1.65          | 2580               | 1670            | 0.061         |
| 25                        | KS 25          | KS 25 PP | 6                     | 25                   | +11 ~ 1 | 40               | 58               | 43.8               | 1.90          | 3800               | 2750            | 0.122         |
| 30                        | KS 30          | KS 30 PP | 6                     | 30                   | +11 ~ 1 | 47               | 68               | 51.8               | 1.90          | 4710               | 2800            | 0.185         |
| 40                        | KS 40          | KS 40 PP | 6                     | 40                   | +13 ~ 2 | 62               | 80               | 60.4               | 2.20          | 6500               | 5720            | 0.360         |
| 50                        | KS 50          | KS 50 PP | 6                     | 50                   | +13 ~ 2 | 75               | 100              | 77.4               | 2.70          | 11460              | 7940            | 0.580         |

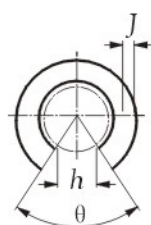
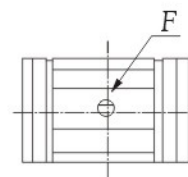
| Technical supplement |           |           |                 |
|----------------------|-----------|-----------|-----------------|
|                      | Cages     | Precision | Grease          |
|                      | Steel -   | X         | Normal<br>(ISO) |
|                      | Polymid - | ✓         |                 |
|                      | Brass -   | X         |                 |
|                      |           |           | Nil             |



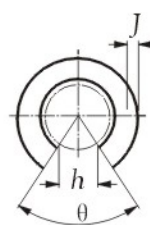
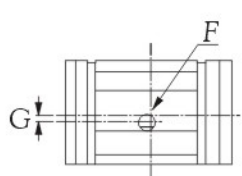
KBS 12 OP



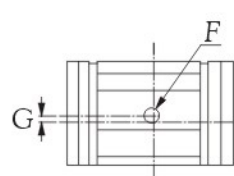
KBS 16 OP, KBS 20 OP



KBS 25 OP



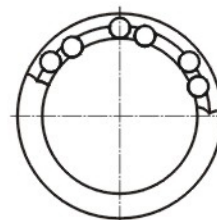
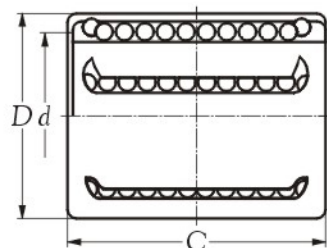
KBS 30 OP, KBS 40 OP, KBS 50 OP



| Inner<br>bore<br><i>d</i><br>mm | Bearing number |           | Number<br>of ball<br>tracks | Principal dimensions |          |                       |          |    |          |          |          | Basic load ratings |                       | Weight |
|---------------------------------|----------------|-----------|-----------------------------|----------------------|----------|-----------------------|----------|----|----------|----------|----------|--------------------|-----------------------|--------|
|                                 |                |           |                             | <i>D</i>             | <i>L</i> | <i>L</i> <sub>2</sub> | <i>h</i> | θ° | <i>F</i> | <i>G</i> | <i>J</i> | dynamic            | static                |        |
|                                 |                |           |                             | ±0.1                 | ±0.2     |                       |          |    |          |          |          | <i>C</i>           | <i>C</i> <sub>0</sub> |        |
|                                 |                |           |                             | mm                   |          |                       |          |    |          |          |          | N                  |                       |        |
| 12                              | KSO 12         | KSO 12 PP | 4                           | 22                   | 32       | 1.35                  | 6.5      | 66 | 3.0      | -        | 0.7      | 1290               | 1260                  | 0.018  |
| 16                              | KSO 16         | KSO 16 PP | 4                           | 26                   | 36       | 1.35                  | 9.0      | 68 | 3.0      | -        | 0.7      | 1640               | 1320                  | 0.022  |
| 20                              | KSO 20         | KSO 20 PP | 5                           | 32                   | 45       | 1.65                  | 9.0      | 55 | 3.0      | -        | 0.9      | 2630               | 1720                  | 0.051  |
| 25                              | KSO 25         | KSO 25 PP | 5                           | 40                   | 58       | 1.90                  | 11.5     | 57 | 3.0      | 1.5      | 1.4      | 3910               | 2850                  | 0.102  |
| 30                              | KSO 30         | KSO 30 PP | 5                           | 47                   | 68       | 1.90                  | 14.0     | 57 | 3.0      | 2.0      | 2.2      | 4850               | 2900                  | 0.155  |
| 40                              | KSO 40         | KSO 40 PP | 5                           | 62                   | 80       | 2.20                  | 19.5     | 56 | 3.0      | 1.5      | 2.7      | 6700               | 5900                  | 0.300  |
| 50                              | KSO 50         | KSO 50 PP | 5                           | 75                   | 100      | 2.70                  | 22.5     | 54 | 3.0      | 2.5      | 2.3      | 11700              | 8100                  | 0.480  |


**Technical supplement**

| Cages       | Precision    | Grease |
|-------------|--------------|--------|
| Steel - X   |              |        |
| Polymid - ✓ |              |        |
| Brass - X   | Normal (ISO) | Nil    |



| Inner bore<br>$d$<br>mm | Bearing number | Number of ball tracks | Principal dimensions |           | Basic load ratings  |                 | Max runout speed |       | Weight<br>kg. |
|-------------------------|----------------|-----------------------|----------------------|-----------|---------------------|-----------------|------------------|-------|---------------|
|                         |                |                       | $D$<br>mm            | $C$<br>mm | dynamic<br>$C$<br>N | static<br>$C_o$ | grease<br>oil    | r/min |               |
| 6                       | KH 06          | 4                     | 12                   | 22        | 400                 | 239             | 41               | 24    | 0.0070        |
| 6                       | KH 06 PP       | 4                     | 12                   | 22        | 400                 | 239             | 41               | 24    | 0.0070        |
| 8                       | KH 08          | 4                     | 15                   | 24        | 435                 | 280             | 44               | 29    | 0.0120        |
| 8                       | KH 08 PP       | 4                     | 15                   | 24        | 435                 | 280             | 44               | 29    | 0.0120        |
| 10                      | KH 10          | 4                     | 17                   | 26        | 500                 | 370             | 51               | 38    | 0.0145        |
| 10                      | KH 10 PP       | 4                     | 17                   | 26        | 500                 | 370             | 51               | 38    | 0.0145        |
| 12                      | KH 12          | 5                     | 19                   | 28        | 620                 | 510             | 63               | 52    | 0.0185        |
| 12                      | KH 12 PP       | 5                     | 19                   | 28        | 620                 | 510             | 63               | 52    | 0.0185        |
| 14                      | KH 14          | 5                     | 21                   | 28        | 620                 | 520             | 63               | 53    | 0.0205        |
| 14                      | KH 14 PP       | 5                     | 21                   | 28        | 620                 | 520             | 63               | 53    | 0.0205        |
| 16                      | KH 16          | 5                     | 24                   | 30        | 800                 | 620             | 82               | 63    | 0.0275        |
| 16                      | KH 16 PP       | 5                     | 24                   | 30        | 800                 | 620             | 82               | 63    | 0.0275        |
| 20                      | KH 20          | 6                     | 28                   | 30        | 950                 | 790             | 97               | 81    | 0.0325        |
| 20                      | KH 20 PP       | 6                     | 28                   | 30        | 950                 | 790             | 97               | 81    | 0.0325        |
| 25                      | KH 25          | 6                     | 35                   | 40        | 1990                | 1670            | 203              | 170   | 0.0660        |
| 25                      | KH 25 PP       | 6                     | 35                   | 40        | 1990                | 1670            | 203              | 170   | 0.0660        |
| 30                      | KH 30          | 7                     | 40                   | 50        | 2800                | 2700            | 285              | 275   | 0.0950        |
| 30                      | KH 30 PP       | 7                     | 40                   | 50        | 2800                | 2700            | 285              | 275   | 0.0950        |
| 40                      | KH 40          | 8                     | 52                   | 60        | 4400                | 4450            | 449              | 454   | 0.1820        |
| 40                      | KH 40 PP       | 8                     | 52                   | 60        | 4400                | 4450            | 449              | 454   | 0.1820        |
| 50                      | KH 50          | 9                     | 62                   | 70        | 5500                | 6300            | 561              | 642   | 0.2520        |
| 50                      | KH 50 PP       | 9                     | 62                   | 70        | 5500                | 6300            | 561              | 642   | 0.2520        |

**Technical supplement**

**Cages**

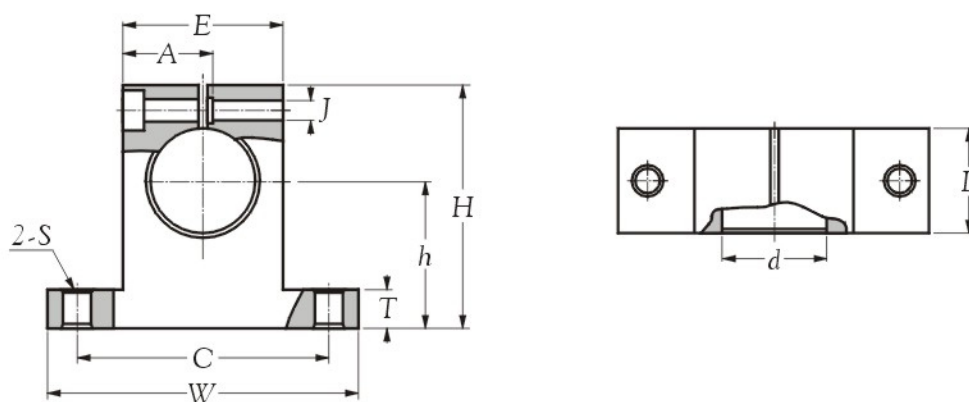
Steel - X  
Polymid - ✓  
Brass - X

**Precision**

Normal  
(ISO)

**Grease**

Nil



| Inner bore<br><i>d</i><br>mm | Bearing number | Principal dimensions       |          |            |            |            |            |            |          |          |          |          |    |      |    | Weight<br><br>kg. |       |
|------------------------------|----------------|----------------------------|----------|------------|------------|------------|------------|------------|----------|----------|----------|----------|----|------|----|-------------------|-------|
|                              |                | <i>d</i>                   | <i>W</i> | <i>C</i>   | <i>H</i>   | <i>L</i>   | <i>h</i>   | <i>T</i>   | <i>E</i> | <i>A</i> | <i>J</i> | <i>S</i> |    |      |    |                   |       |
|                              |                | tolerance                  |          | tolerance  |            | tolerance  |            | tolerance  |          |          |          |          |    |      |    |                   |       |
|                              |                | mm 0.001mm                 |          | mm 0.001mm | mm 0.001mm | mm 0.001mm | mm 0.001mm | mm 0.001mm |          | mm       |          |          |    |      |    |                   |       |
| 12                           | FGWA 12        | 12 <sup>+0.018<br/>0</sup> | 42       | 32         | ±0.15      | 35         | ±0.30      | 12         | ±0.20    | 20       | ±0.020   | 5.5      | 20 | 12.0 | M3 | 5.5               | 0.024 |
| 16                           | FGWA 16        | 16 <sup>+0.018<br/>0</sup> | 50       | 40         | ±0.15      | 42         | ±0.30      | 16         | ±0.20    | 25       | ±0.020   | 6.5      | 28 | 16.0 | M3 | 5.5               | 0.050 |
| 20                           | FGWA 20        | 20 <sup>+0.021<br/>0</sup> | 60       | 45         | ±0.15      | 50         | ±0.30      | 20         | ±0.20    | 30       | ±0.020   | 8.0      | 32 | 18.0 | M4 | 5.5               | 0.080 |
| 25                           | FGWA 25        | 25 <sup>+0.021<br/>0</sup> | 74       | 60         | ±0.15      | 58         | ±0.30      | 25         | ±0.20    | 35       | ±0.020   | 9.0      | 38 | 21.0 | M5 | 6.6               | 0.132 |
| 30                           | FGWA 30        | 30 <sup>+0.021<br/>0</sup> | 84       | 68         | ±0.15      | 68         | ±0.30      | 28         | ±0.20    | 40       | ±0.020   | 10.0     | 45 | 24.5 | M6 | 9.0               | 0.200 |
| 40                           | FGWA 40        | 40 <sup>+0.025<br/>0</sup> | 108      | 86         | ±0.15      | 86         | ±0.30      | 32         | ±0.20    | 50       | ±0.020   | 12.0     | 56 | 31.0 | M8 | 11.0              | 0.350 |

**Technical supplement**

**Cages**

Steel - Nil  
Polymid - Nil  
Brass - Nil

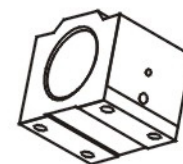
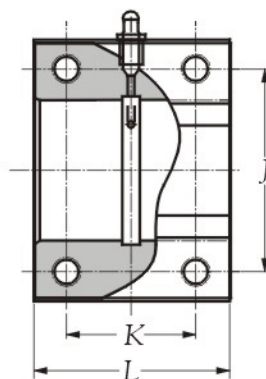
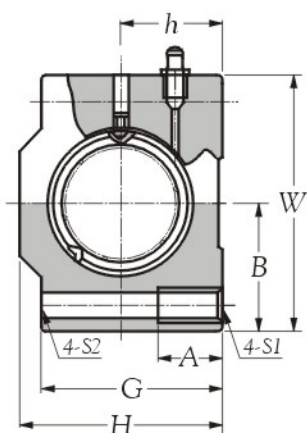
**Precision**

Class  
(JIS)

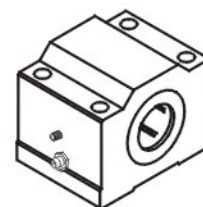
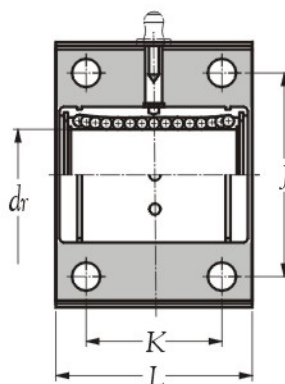
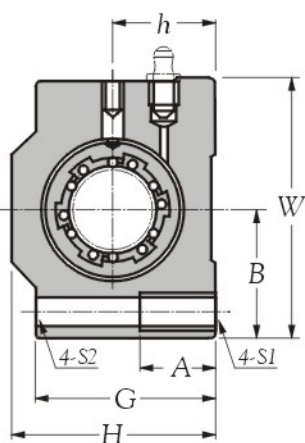
**Grease**

Shell  
Alvania S2





| Bearing number | Principal dimensions                |                                     |                                     |                                     |          |          |                                     |           |           |                                     |                                     | Weight<br>kg(s). |
|----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------|----------|-------------------------------------|-----------|-----------|-------------------------------------|-------------------------------------|------------------|
|                | <i>h</i><br>Tolerance<br>mm 0.001mm | <i>B</i><br>Tolerance<br>mm 0.001mm | <i>W</i><br>Tolerance<br>mm 0.001mm | <i>H</i><br>Tolerance<br>mm 0.001mm | <i>G</i> | <i>A</i> | <i>J</i><br>Tolerance<br>mm 0.001mm | <i>S1</i> | <i>S2</i> | <i>K</i><br>Tolerance<br>mm 0.001mm | <i>L</i><br>Tolerance<br>mm 0.001mm |                  |
| SB 16 AS       | 22 ±0.02                            | 26.5 ±0.02                          | 53 0~-0.3                           | 42 0~-0.3                           | 37.0     | 13       | 40 ±0.15                            | M6        | 5.3       | 26 ±0.15                            | 36 0~-0.2                           | 0.202            |
| SB 20 AS       | 25 ±0.02                            | 30.0 ±0.02                          | 60 0~-0.3                           | 50 0~-0.3                           | 44.0     | 18       | 45 ±0.15                            | M8        | 6.6       | 32 ±0.15                            | 45 0~-0.2                           | 0.301            |
| SB 25 AS       | 35 ±0.02                            | 39.0 ±0.02                          | 78 0~-0.3                           | 60 0~-0.3                           | 52.5     | 26       | 60 ±0.15                            | M10       | 8.4       | 40 ±0.15                            | 58 0~-0.2                           | 0.659            |
| SB 30 AS       | 35 ±0.02                            | 43.5 ±0.02                          | 87 0~-0.3                           | 70 0~-0.3                           | 62.5     | 26       | 68 ±0.15                            | M10       | 8.4       | 45 ±0.15                            | 68 0~-0.2                           | 1.000            |
| SB 40 AS       | 45 ±0.02                            | 54.0 ±0.01                          | 108 0~-0.3                          | 90 0~-0.3                           | 80.0     | 26       | 86 ±0.15                            | M12       | 10.5      | 58 ±0.15                            | 80 0~-0.2                           | 2.233            |



| Bearing number | Principal dimensions                |                                     |                                     |                                     |          |          |                                     |           |           |                                     |                                     | Weight<br>kg(s). |
|----------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------|----------|-------------------------------------|-----------|-----------|-------------------------------------|-------------------------------------|------------------|
|                | <i>h</i><br>Tolerance<br>mm 0.001mm | <i>B</i><br>Tolerance<br>mm 0.001mm | <i>W</i><br>Tolerance<br>mm 0.001mm | <i>H</i><br>Tolerance<br>mm 0.001mm | <i>G</i> | <i>A</i> | <i>J</i><br>Tolerance<br>mm 0.001mm | <i>S1</i> | <i>S2</i> | <i>K</i><br>Tolerance<br>mm 0.001mm | <i>L</i><br>Tolerance<br>mm 0.001mm |                  |
| SB KB 16 PP AS | 22 ±0.02                            | 26.5 ±0.02                          | 53 0~-0.3                           | 42 0~-0.3                           | 37.0     | 13       | 40 ±0.15                            | M6        | 5.3       | 26 ±0.15                            | 36 0~-0.2                           | 0.202            |
| SB KB 20 PP AS | 25 ±0.02                            | 30.0 ±0.02                          | 60 0~-0.3                           | 50 0~-0.3                           | 44.0     | 18       | 45 ±0.15                            | M8        | 6.6       | 32 ±0.15                            | 45 0~-0.2                           | 0.301            |
| SB KB 25 PP AS | 30 ±0.02                            | 39.0 ±0.02                          | 78 0~-0.3                           | 60 0~-0.3                           | 52.5     | 26       | 60 ±0.15                            | M10       | 8.4       | 40 ±0.15                            | 58 0~-0.2                           | 0.659            |
| SB KB 30 PP AS | 35 ±0.02                            | 43.5 ±0.02                          | 87 0~-0.3                           | 70 0~-0.3                           | 62.5     | 26       | 68 ±0.15                            | M10       | 8.4       | 45 ±0.15                            | 68 0~-0.2                           | 1.000            |
| SB KB 40 PP AS | 45 ±0.02                            | 54.0 ±0.01                          | 108 0~-0.3                          | 90 0~-0.3                           | 80.0     | 26       | 86 ±0.15                            | M12       | 10.5      | 58 ±0.15                            | 80 0~-0.2                           | 2.233            |

**Technical supplement**

**Cages**

 Steel - Nil  
 Polymid - Nil  
 Brass - Nil

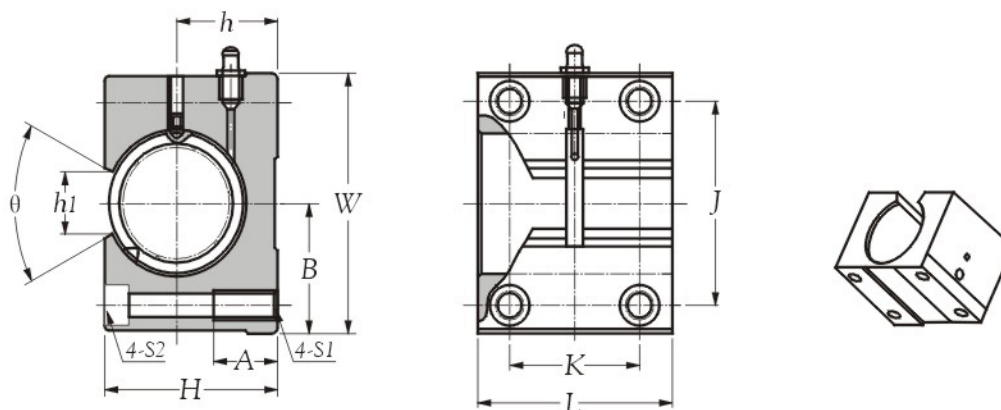
**Precision**

 Normal  
(ISO)

**Grease**

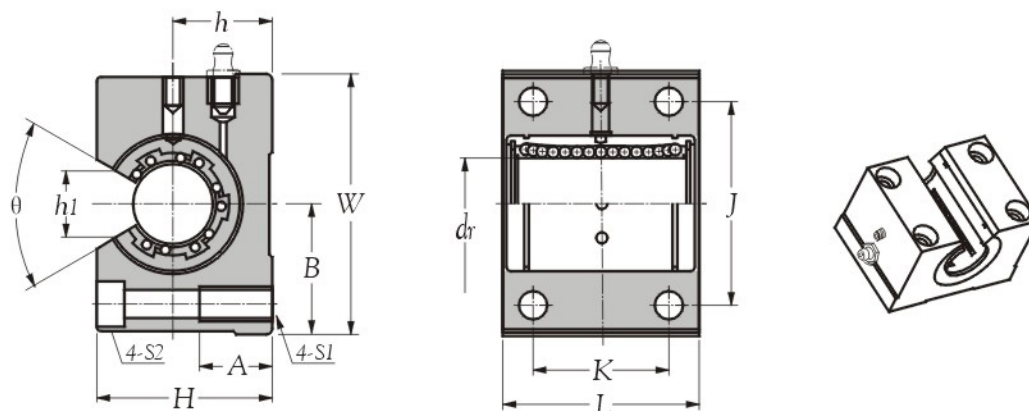
Nil





| Bearing number | Principal dimensions |            |             |            |          |            |                       |                       |            |            |                       |          |       | Weight<br><br>kg(s). |
|----------------|----------------------|------------|-------------|------------|----------|------------|-----------------------|-----------------------|------------|------------|-----------------------|----------|-------|----------------------|
|                | <i>h</i>             | <i>B</i>   | <i>W</i>    | <i>H</i>   | <i>A</i> | <i>J</i>   | <i>S</i> <sub>1</sub> | <i>S</i> <sub>2</sub> | <i>K</i>   | <i>L</i>   | <i>h</i> <sub>1</sub> | <i>θ</i> |       |                      |
|                | Tolerance            | Tolerance  | Tolerance   | Tolerance  |          | Tolerance  |                       |                       | Tolerance  | Tolerance  | Tolerance             |          |       |                      |
|                | mm 0.001mm           | mm 0.001mm | mm 0.001mm  | mm 0.001mm |          | mm 0.001mm |                       |                       | mm 0.001mm | mm 0.001mm | mm 0.001mm            |          |       |                      |
| SO 16 AS       | 22 ±0.02             | 26.5 ±0.02 | 53 0 ~-0.3  | 35 0 ~-0.3 | 13       | 40 ±0.15   | M6                    | 5.3                   | 26 ±0.15   | 36 0 ~-0.2 | 16.4 ±0.3             | 78°      | 0.159 |                      |
| SO 20 AS       | 25 ±0.02             | 30.0 ±0.02 | 60 0 ~-0.3  | 42 0 ~-0.3 | 18       | 45 ±0.15   | M8                    | 6.5                   | 32 ±0.15   | 45 0 ~-0.2 | 16.0 ±0.3             | 60°      | 0.259 |                      |
| SO 25 AS       | 30 ±0.02             | 39.0 ±0.02 | 78 0 ~-0.3  | 51 0 ~-0.3 | 22       | 60 ±0.15   | M10                   | 8.5                   | 40 ±0.15   | 58 0 ~-0.2 | 20.0 ±0.3             | 60°      | 0.574 |                      |
| SO 30 AS       | 35 ±0.02             | 43.5 ±0.02 | 87 0 ~-0.3  | 60 0 ~-0.3 | 22       | 68 ±0.15   | M10                   | 8.5                   | 45 ±0.15   | 68 0 ~-0.2 | 19.9 ±0.3             | 50°      | 1.453 |                      |
| SO 40 AS       | 45 ±0.02             | 54.0 ±0.01 | 108 0 ~-0.3 | 77 0 ~-0.3 | 26       | 86 ±0.15   | M12                   | 10.5                  | 58 ±0.15   | 80 0 ~-0.2 | 26.1 ±0.3             | 50°      | 1.996 |                      |

Note: 1) These values are the allowable minimum dimensions of the chamfer dimension  $r$ .



| Bearing number | Principal dimensions |            |            |            |          |            |                       |                       |            |            |                       |          |       | Weight<br><br>kg(s). |
|----------------|----------------------|------------|------------|------------|----------|------------|-----------------------|-----------------------|------------|------------|-----------------------|----------|-------|----------------------|
|                | <i>h</i>             | <i>B</i>   | <i>W</i>   | <i>H</i>   | <i>A</i> | <i>J</i>   | <i>S</i> <sub>1</sub> | <i>S</i> <sub>2</sub> | <i>K</i>   | <i>L</i>   | <i>h</i> <sub>1</sub> | <i>θ</i> |       |                      |
|                | Tolerance            | Tolerance  | Tolerance  | Tolerance  |          | Tolerance  |                       |                       | Tolerance  | Tolerance  | Tolerance             |          |       |                      |
|                | mm 0.001mm           | mm 0.001mm | mm 0.001mm | mm 0.001mm |          | mm 0.001mm |                       |                       | mm 0.001mm | mm 0.001mm | mm 0.001mm            |          |       |                      |
| SO KBO 16 PPAS | 22 ±0.02             | 26.5 ±0.02 | 53 0~-0.3  | 35 0~-0.3  | 13       | 40 ±0.15   | M6                    | 5.3                   | 26 ±0.15   | 36 0~-0.2  | 16.4 ±0.3             | 78°      | 0.159 |                      |
| SO KBO 20 PPAS | 25 ±0.02             | 30.0 ±0.02 | 60 0~-0.3  | 42 0~-0.3  | 18       | 45 ±0.15   | M8                    | 6.5                   | 32 ±0.15   | 45 0~-0.2  | 16.0 ±0.3             | 60°      | 0.259 |                      |
| SO KBO 25 PPAS | 30 ±0.02             | 39.0 ±0.02 | 78 0~-0.3  | 51 0~-0.3  | 22       | 60 ±0.15   | M10                   | 8.5                   | 40 ±0.15   | 58 0~-0.2  | 20.0 ±0.3             | 60°      | 0.574 |                      |
| SO KBO 30 PPAS | 35 ±0.02             | 43.5 ±0.02 | 87 0~-0.3  | 60 0~-0.3  | 22       | 68 ±0.15   | M10                   | 8.5                   | 45 ±0.15   | 68 0~-0.2  | 19.9 ±0.3             | 50°      | 1.453 |                      |
| SO KBO 40 PPAS | 45 ±0.02             | 54.0 ±0.01 | 108 0~-0.3 | 77 0~-0.3  | 26       | 86 ±0.15   | M12                   | 10.5                  | 58 ±0.15   | 80 0~-0.2  | 26.1 ±0.3             | 50°      | 1.996 |                      |

### Technical supplement



#### Cages

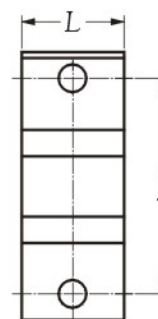
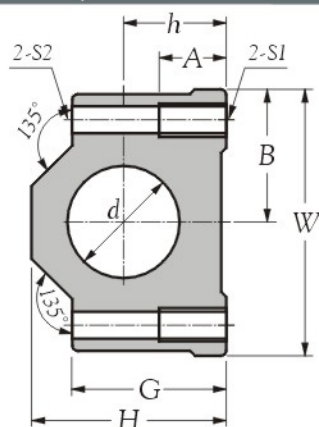
Steel - Nil  
Polymid - Nil  
Brass - Nil

#### Precision

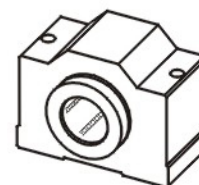
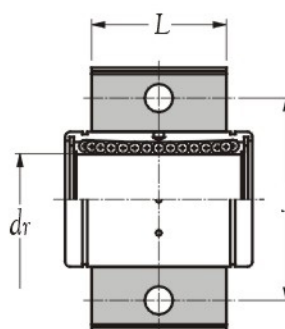
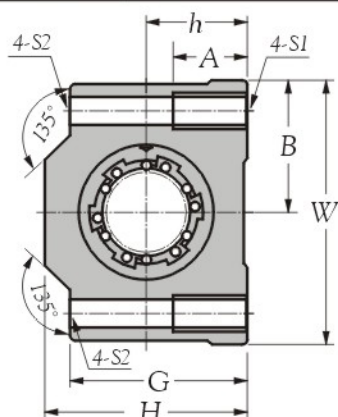
Normal  
(ISO)

#### Grease

Nil



| Inner bore<br><i>d</i><br>mm | Bearing number | Principal dimensions       |                            |          |          |          |                            |                       |                       |          |       | Weight |
|------------------------------|----------------|----------------------------|----------------------------|----------|----------|----------|----------------------------|-----------------------|-----------------------|----------|-------|--------|
|                              |                | <i>h</i>                   | <i>B</i>                   | <i>W</i> | <i>H</i> | <i>A</i> | <i>J</i>                   | <i>S</i> <sub>1</sub> | <i>S</i> <sub>2</sub> | <i>L</i> | kg.   |        |
|                              |                | Tolerance<br>mm<br>0.001mm | Tolerance<br>mm<br>0.001mm |          |          |          | Tolerance<br>mm<br>0.001mm |                       |                       |          |       |        |
| 22                           | S2B 12 N       | 20 +0.010 ~ -0.014         | 26.0 ±0.015                | 52       | 38       | 13       | 42 ±0.15                   | M6                    | 5.3                   | 20       | 0.025 |        |
| 26                           | S2B 16 N       | 20 ±0.015                  | 28.0 ±0.015                | 56       | 40       | 13       | 46 ±0.15                   | M6                    | 5.3                   | 22       | 0.060 |        |
| 32                           | S2B 20 N       | 25 ±0.015                  | 35.0 ±0.015                | 70       | 50       | 15       | 58 ±0.20                   | M8                    | 6.6                   | 28       | 0.098 |        |
| 40                           | S2B 25 N       | 30 ±0.015                  | 40.0 ±0.015                | 80       | 60       | 18       | 68 ±0.15                   | M8                    | 6.6                   | 40       | 0.125 |        |
| 47                           | S2B 30 N       | 35 ±0.015                  | 44.0 ±0.015                | 88       | 70       | 18       | 76 ±0.15                   | M8                    | 6.6                   | 48       | 0.140 |        |
| 62                           | S2B 40 N       | 45 ±0.015                  | 54.0 ±0.015                | 108      | 85       | 22       | 94 ±0.15                   | M10                   | 8.5                   | 56       | 0.080 |        |
| 75                           | S2B 50 N       | 50 ±0.015                  | 67.5 ±0.015                | 135      | 102      | 27       | 116 ±0.15                  | M12                   | 10.5                  | 72       | 0.400 |        |



| Inner<br>bore<br>$d$<br>mm | Bearing number         | Principal dimensions |               |     |     |     |               |       |       |     |       | Weight |
|----------------------------|------------------------|----------------------|---------------|-----|-----|-----|---------------|-------|-------|-----|-------|--------|
|                            |                        | $h$                  | $B$           | $W$ | $H$ | $A$ | $J$           | $S_1$ | $S_2$ | $L$ |       |        |
|                            |                        | Tolerance            | Tolerance     |     |     |     | Tolerance     |       |       |     |       |        |
|                            |                        | mm<br>0.001mm        | mm<br>0.001mm |     |     |     | mm<br>0.001mm |       |       |     | kg.   |        |
| 22                         | S2B 12 N + KB 12 PP AS | 20 +0.010 ~ -0.014   | 26.0 ±0.015   | 52  | 38  | 13  | 42 ±0.15      | M6    | 5.3   | 20  | 0.025 |        |
| 26                         | S2B 16 N + KB 16 PP AS | 20 ±0.015            | 28.0 ±0.015   | 56  | 40  | 13  | 46 ±0.15      | M6    | 5.3   | 22  | 0.060 |        |
| 32                         | S2B 20 N + KB 20 PP AS | 25 ±0.015            | 35.0 ±0.015   | 70  | 50  | 15  | 58 ±0.20      | M8    | 6.6   | 28  | 0.098 |        |
| 40                         | S2B 25 N + KB 25 PP AS | 30 ±0.015            | 40.0 ±0.015   | 80  | 60  | 18  | 68 ±0.15      | M8    | 6.6   | 40  | 0.125 |        |
| 47                         | S2B 30 N + KB 30 PP AS | 35 ±0.015            | 44.0 ±0.015   | 88  | 70  | 18  | 76 ±0.15      | M8    | 6.6   | 48  | 0.140 |        |
| 62                         | S2B 40 N + KB 40 PP AS | 45 ±0.015            | 54.0 ±0.015   | 108 | 85  | 22  | 94 ±0.15      | M10   | 8.5   | 56  | 0.080 |        |
| 75                         | S2B 50 N + KB 50 PP AS | 50 ±0.015            | 67.5 ±0.015   | 135 | 102 | 27  | 116 ±0.15     | M12   | 10.5  | 72  | 0.400 |        |

**Technical supplement**

**Cages**

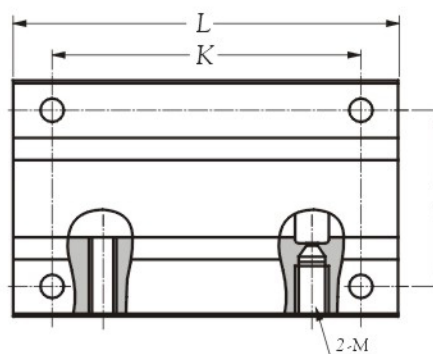
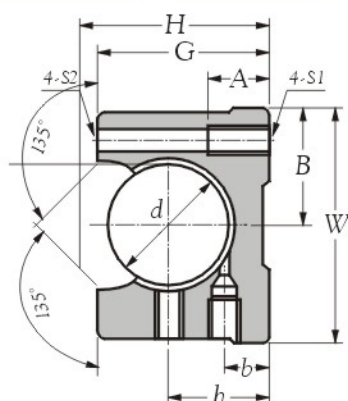
 Steel - Nil  
 Polymid - Nil  
 Brass - Nil

**Precision**

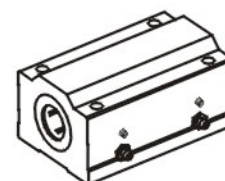
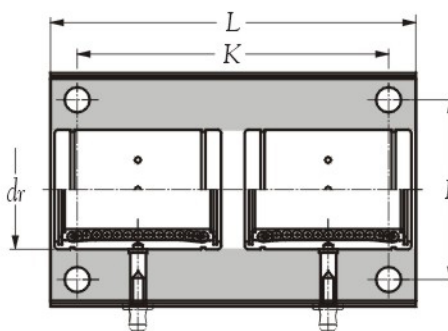
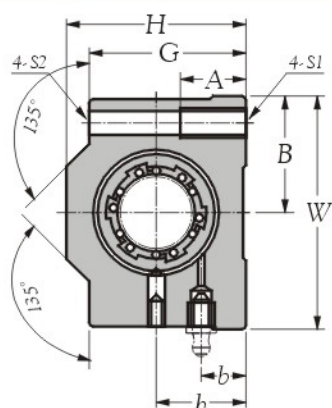
 Normal  
(ISO)

**Grease**

Nil



| Inner bore<br><i>d</i><br>mm | Bearing number | Principal dimensions    |                         |          |          |          |          |                         |           |           |                         |          |          |          | Weight<br>kg(s). |
|------------------------------|----------------|-------------------------|-------------------------|----------|----------|----------|----------|-------------------------|-----------|-----------|-------------------------|----------|----------|----------|------------------|
|                              |                | <i>h</i>                | <i>B</i>                | <i>W</i> | <i>H</i> | <i>b</i> | <i>A</i> | <i>J</i>                | <i>S1</i> | <i>S2</i> | <i>K</i>                | <i>L</i> | <i>M</i> | <i>G</i> |                  |
|                              |                | Tolerance<br>mm 0.001mm | Tolerance<br>mm 0.001mm |          |          |          |          | Tolerance<br>mm 0.001mm |           |           | Tolerance<br>mm 0.001mm |          |          |          |                  |
| 22                           | SBT 12 AS      | 18 +0.010 ~ -0.014      | 21.5 ±0.015             | 43       | 35       | 8        | 11       | 32 ±0.15                | M5        | 4.3       | 56 ±0.10                | 70       | M6X1     | 31.0     | 0.170            |
| 26                           | SBT 16 AS      | 22 +0.010 ~ -0.014      | 26.5 ±0.015             | 53       | 42       | 12       | 13       | 40 ±0.15                | M6        | 5.3       | 64 ±0.15                | 78       | M6X1     | 37.0     | 0.310            |
| 32                           | SBT 20 AS      | 25 +0.008 ~ -0.016      | 30.0 ±0.010             | 60       | 50       | 13       | 18       | 45 ±0.15                | M8        | 6.6       | 76 ±0.15                | 96       | M6X1     | 44.0     | 0.486            |
| 40                           | SBT 25 AS      | 30 +0.008 ~ -0.016      | 39.0 ±0.010             | 78       | 60       | 15       | 22       | 60 ±0.15                | M10       | 8.4       | 94 ±0.15                | 122      | M8X1     | 52.5     | 0.630            |
| 47                           | SBT 30 AS      | 35 +0.008 ~ -0.016      | 43.5 ±0.010             | 87       | 70       | 16       | 22       | 68 ±0.15                | M10       | 8.4       | 106 ±0.15               | 142      | M8X1     | 62.5     | 0.760            |
| 62                           | SBT 40 AS      | 45 +0.008 ~ -0.016      | 54.0 ±0.010             | 108      | 90       | 26       | 26       | 86 ±0.15                | M12       | 10.5      | 124 ±0.15               | 166      | M8X1     | 80.0     | 0.980            |
| 75                           | SBT 50 AS      | 50 +0.005 ~ -0.016      | 66.0 ±0.015             | 132      | 101      | 22       | 34       | 108 ±0.15               | M14       | 13.5      | 160 ±0.15               | 212      | M8X1     | 88.0     | 2.360            |



| Inner bore<br><i>d</i><br>mm | Bearing number          | Principal dimensions    |                         |          |          |          |          |                         |           |           |                         |          |          |          | Weight<br>kg(s). |
|------------------------------|-------------------------|-------------------------|-------------------------|----------|----------|----------|----------|-------------------------|-----------|-----------|-------------------------|----------|----------|----------|------------------|
|                              |                         | <i>h</i>                | <i>B</i>                | <i>W</i> | <i>H</i> | <i>b</i> | <i>A</i> | <i>J</i>                | <i>S1</i> | <i>S2</i> | <i>K</i>                | <i>L</i> | <i>M</i> | <i>G</i> |                  |
|                              |                         | Tolerance<br>mm 0.001mm | Tolerance<br>mm 0.001mm |          |          |          |          | Tolerance<br>mm 0.001mm |           |           | Tolerance<br>mm 0.001mm |          |          |          |                  |
| 22                           | SBT 12 AS + KB 12 PP AS | 18 +0.010 ~ -0.014      | 21.5 ±0.015             | 43       | 35       | 8        | 11       | 32 ±0.15                | M5        | 4.3       | 56 ±0.10                | 70       | M6X1     | 31.0     | 0.170            |
| 26                           | SBT 16 AS + KB 16 PP AS | 22 +0.010 ~ -0.014      | 26.5 ±0.015             | 53       | 42       | 12       | 13       | 40 ±0.15                | M6        | 5.3       | 64 ±0.15                | 78       | M6X1     | 37.0     | 0.310            |
| 32                           | SBT 20 AS + KB 20 PP AS | 25 +0.008 ~ -0.016      | 30.0 ±0.010             | 60       | 50       | 13       | 18       | 45 ±0.15                | M8        | 6.6       | 76 ±0.15                | 96       | M6X1     | 44.0     | 0.486            |
| 40                           | SBT 25 AS + KB 25 PP AS | 30 +0.008 ~ -0.016      | 39.0 ±0.010             | 78       | 60       | 15       | 22       | 60 ±0.15                | M10       | 8.4       | 94 ±0.15                | 122      | M8X1     | 52.5     | 0.630            |
| 47                           | SBT 30 AS + KB 30 PP AS | 35 +0.008 ~ -0.016      | 43.5 ±0.010             | 87       | 70       | 16       | 22       | 68 ±0.15                | M10       | 8.4       | 106 ±0.15               | 142      | M8X1     | 62.5     | 0.760            |
| 62                           | SBT 40 AS + KB 40 PP AS | 45 +0.008 ~ -0.016      | 54.0 ±0.010             | 108      | 90       | 26       | 26       | 86 ±0.15                | M12       | 10.5      | 124 ±0.15               | 166      | M8X1     | 80.0     | 0.980            |
| 75                           | SBT 50 AS + KB 50 PP AS | 50 +0.005 ~ -0.016      | 66.0 ±0.015             | 132      | 101      | 22       | 34       | 108 ±0.15               | M14       | 13.5      | 160 ±0.15               | 212      | M8X1     | 88.0     | 2.360            |

**Technical supplement**

**Cages**

 Steel - Nil  
 Polymid - Nil  
 Brass - Nil

**Precision**

 Normal  
(ISO)

**Grease**

Nil