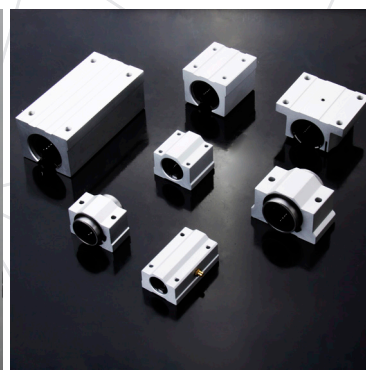
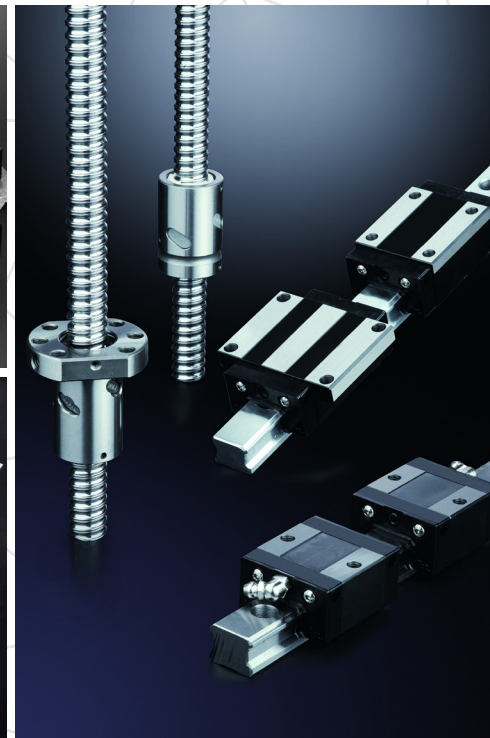
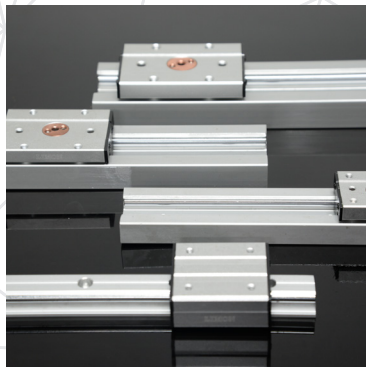


# LIMON<sup>®</sup>

PRECISION & SPEED

LIMON AUTO TECH CO.,LTD.  
SPECIALIST OF LINEAR MOTION SYSTEMS



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Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

Rectangle Wheel Linear Rail

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Ball screw Support Unit

Cross Roller Guide

# 01

## Linear Bush Series



Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

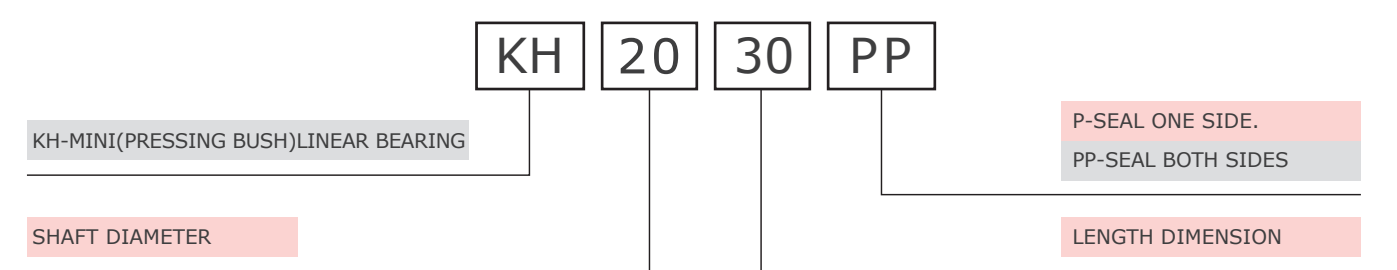
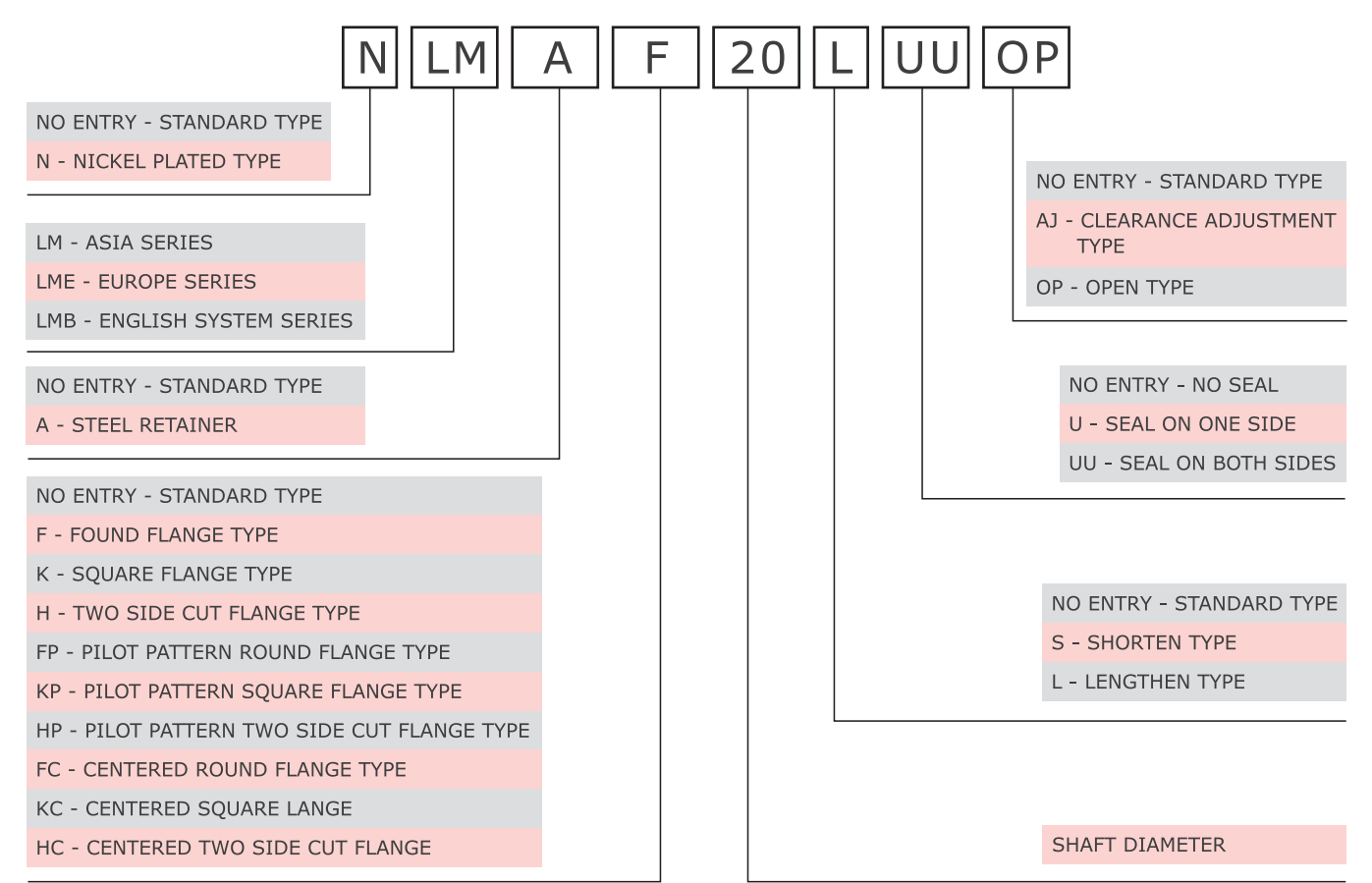
Rectangle Wheel Linear Rail

Ball Screw

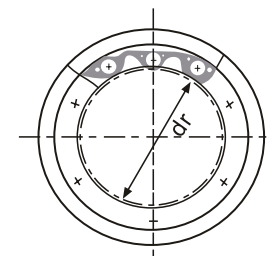
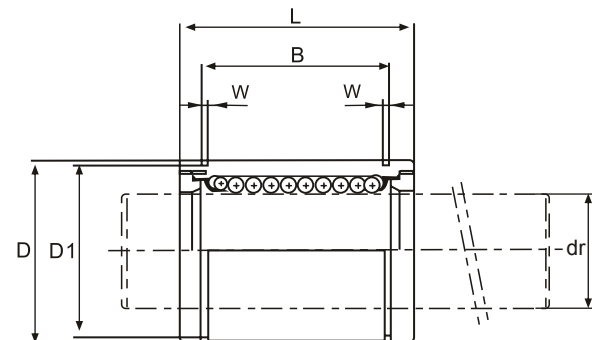
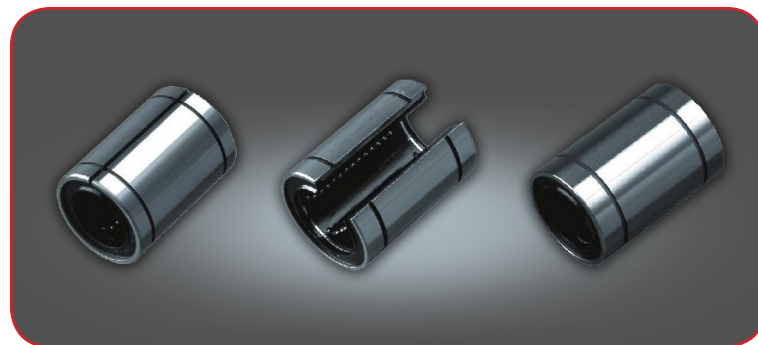
Ball screw Support Unit

Cross Roller Guide

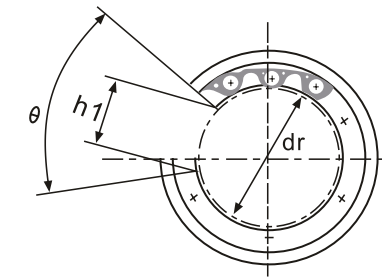
### Type number format



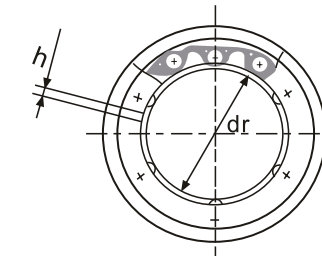
Series **LM**



LM



LM -OP



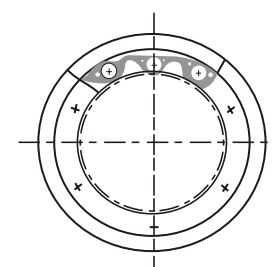
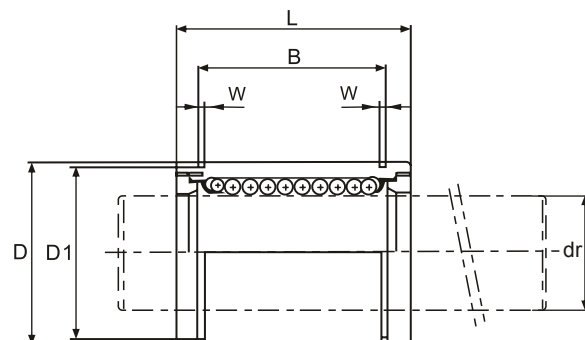
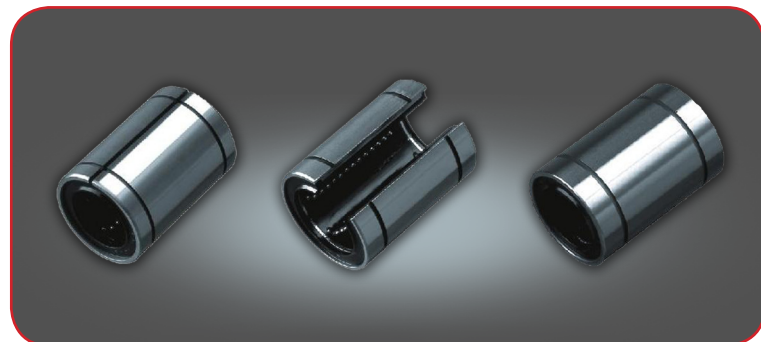
LM -AJ

| Nominal shaft diameter (mm) | Part No.  |              |            |              |                 |              | dr (mm) | Tolerance (μm) | D (mm) | Tolerance (μm) |
|-----------------------------|-----------|--------------|------------|--------------|-----------------|--------------|---------|----------------|--------|----------------|
|                             | Seal Type | Ball Circuit | Open Type  | Ball Circuit | Adjustable Type | Ball Circuit |         |                |        |                |
| 3                           | LM3       | 4            | -          | -            | -               | -            | 3       |                | 7      |                |
| 4                           | LM4       | 4            | -          | -            | -               | -            | 4       | 0 -8           | 8      | 0 -9           |
| 5                           | LM5UU     | 4            | -          | -            | -               | -            | 5       |                | 10     |                |
| 6                           | LM6UU     | 4            | -          | -            | LM6UUAJ         | 4            | 6       |                | 12     |                |
| 8                           | LM8SUU    | 4            | -          | -            | LM8SUUAJ        | 4            | 8       |                | 15     | 0 -11          |
| 8                           | LM8UU     | 4            | -          | -            | LM8UUAJ         | 4            | 8       |                | 15     |                |
| 10                          | LM10UU    | 4            | -          | -            | LM10UUAJ        | 4            | 10      | 0 -9           | 19     |                |
| 12                          | LM12UU    | 4            | LM12UU-OP  | 3            | LM12UUAJ        | 4            | 12      |                | 21     | 0 -13          |
| 13                          | LM13UU    | 4            | LM13UU-OP  | 3            | LM13UUAJ        | 4            | 13      |                | 23     |                |
| 16                          | LM16UU    | 5            | LM16UU-OP  | 4            | LM16UUAJ        | 5            | 16      |                | 28     |                |
| 20                          | LM20UU    | 5            | LM20UU-OP  | 4            | LM20UUAJ        | 5            | 20      |                | 32     |                |
| 25                          | LM25UU    | 6            | LM25UU-OP  | 5            | LM25UUAJ        | 6            | 25      | 0 -10          | 40     | 0 -16          |
| 30                          | LM30UU    | 6            | LM30UU-OP  | 5            | LM30UUAJ        | 6            | 30      |                | 45     |                |
| 35                          | LM35UU    | 6            | LM35UU-OP  | 5            | LM35UUAJ        | 6            | 35      |                | 52     |                |
| 40                          | LM40UU    | 6            | LM40UU-OP  | 5            | LM40UUAJ        | 6            | 40      | 0 -12          | 60     | 0 -19          |
| 50                          | LM50UU    | 6            | LM50UU-OP  | 5            | LM50UUAJ        | 6            | 50      |                | 80     |                |
| 60                          | LM60UU    | 6            | LM60UU-OP  | 5            | LM60UUAJ        | 6            | 60      | 0 -15          | 90     | 0 -22          |
| 80                          | LM80UU    | 6            | LM80UU-OP  | 5            | LM80UUAJ        | 6            | 80      | 0 -20          | 120    | 0 -25          |
| 100                         | LM100UU   | 6            | LM100UU-OP | 5            | LM100UUAJ       | 6            | 100     |                | 150    |                |
| 120                         | LM120UU   | 8            | LM120UU-OP | 6            | LM120UUAJ       | 8            | 120     | 0 -25          | 180    | 0 -29          |
| 150                         | LM150UU   | 8            | LM150UU-OP | 6            | LM150UUAJ       | 8            | 150     |                | 210    |                |

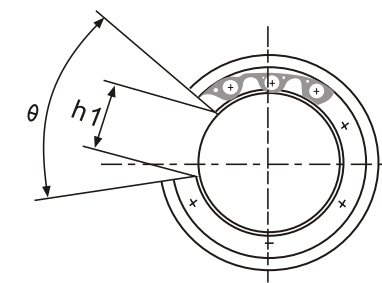
| Main dimensions and tolerance |                |        |                |        |         |        |         |     | Eccentricity (Max) μm | Radial clearance (Max) μm | Basic load rating |       | Weight (g) | Part No. |
|-------------------------------|----------------|--------|----------------|--------|---------|--------|---------|-----|-----------------------|---------------------------|-------------------|-------|------------|----------|
| L (mm)                        | Tolerance (μm) | B (mm) | Tolerance (μm) | W (mm) | D1 (mm) | h (mm) | h1 (mm) | θ   |                       |                           | C N               | Co N  |            |          |
| 10                            |                | -      |                | -      | -       | -      | -       | -   |                       |                           | 69                | 105   | 1.35       | LM3      |
| 12                            | 0 -120         | -      |                | -      | -       | -      | -       | -   | 8                     |                           | 88                | 127   | 2          | LM4      |
| 15                            |                | 10.2   |                | 1.1    | 9.6     | -      | -       | -   |                       |                           | 167               | 206   | 4          | LM5UU    |
| 19                            |                | 13.5   |                | 1.1    | 11.5    | 1.0    | -       | -   |                       |                           | 206               | 265   | 8.5        | LM6UU    |
| 17                            |                | 11.5   |                | 1.1    | 14.3    | 1.0    | -       | -   |                       |                           | 176               | 216   | 11         | LM8SUU   |
| 24                            |                | 17.5   | 0 -200         | 1.1    | 14.3    | 1.0    | -       | -   |                       |                           | 274               | 392   | 17         | LM8UU    |
| 29                            | 0 -200         | 22     |                | 1.3    | 18      | 1.0    | 6.8     | 80° | 12                    |                           | 372               | 549   | 36         | LM10UU   |
| 30                            |                | 23     |                | 1.3    | 20      | 1.5    | 8       | 80° |                       | -4                        | 510               | 784   | 42         | LM12UU   |
| 32                            |                | 23     |                | 1.3    | 22      | 1.5    | 9       | 80° |                       |                           | 510               | 784   | 49         | LM13UU   |
| 37                            |                | 26.5   |                | 1.6    | 27      | 1.5    | 11      | 80° |                       |                           | 774               | 1180  | 76         | LM16UU   |
| 42                            |                | 30.5   |                | 1.6    | 30.5    | 1.5    | 11      | 60° |                       | -6                        | 882               | 1370  | 100        | LM20UU   |
| 59                            |                | 41     |                | 1.85   | 38      | 2      | 12      | 50° | 15                    |                           | 980               | 1570  | 240        | LM25UU   |
| 64                            |                | 44.5   |                | 1.85   | 43      | 2.5    | 15      | 50° |                       | -8                        | 1570              | 2740  | 270        | LM30UU   |
| 70                            | 0 -300         | 49.5   | 0 -400         | 2.1    | 49      | 2.5    | 17      | 50° |                       |                           | 1670              | 3140  | 425        | LM35UU   |
| 80                            |                | 60.5   |                | 2.1    | 57      | 3      | 20      | 50° | 20                    | -10                       | 2160              | 4020  | 654        | LM40UU   |
| 100                           |                | 74     |                | 2.6    | 76.5    | 3      | 25      | 50° |                       | -13                       | 3820              | 7940  | 1700       | LM50UU   |
| 110                           |                | 85     |                | 3.15   | 86.5    | 3      | 30      | 50° | 25                    |                           | 4700              | 10000 | 2000       | LM60UU   |
| 140                           |                | 105.5  |                | 4.15   | 116     | 3      | 40      | 50° |                       | -20                       | 7350              | 16000 | 4420       | LM80UU   |
| 175                           | 0 -400         | 125.5  | 0 -400         | 4.15   | 145     | 3      | 50      | 50° | 30                    |                           | 14100             | 34800 | 8600       | LM100UU  |
| 200                           |                | 158.6  |                | 4.15   | 175     | 3      | 85      | 80° |                       | -25                       | 16400             | 40000 | 15000      | LM120UU  |
| 240                           |                | 170.6  |                | 5.15   | 204     | 3      | 105     | 80° | 40                    |                           | 21100             | 54300 | 20250      | LM150UU  |



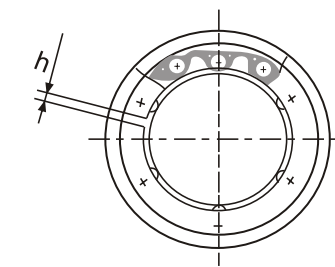
Series **LME**



LME



LME -OP

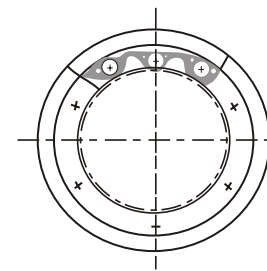
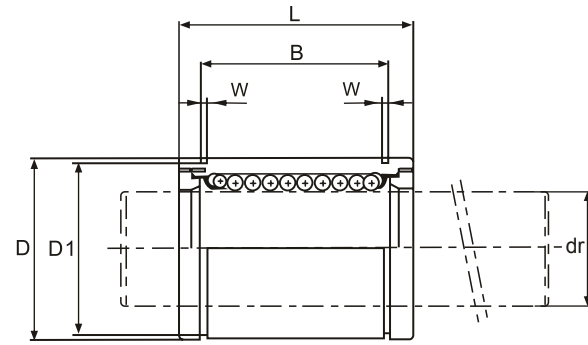
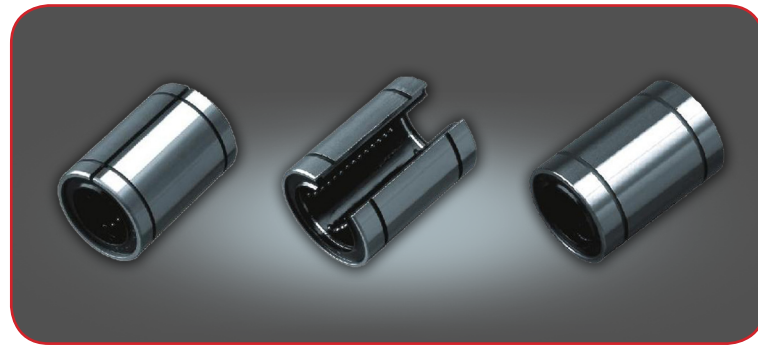


LME -AJ

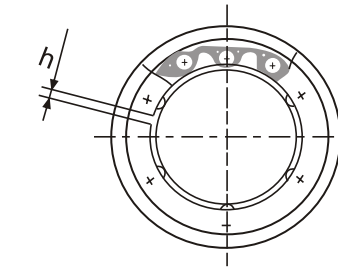
| Nominal shaft diameter (mm) | Part No.  |              |            |              |                 |              |         |                |        |                |
|-----------------------------|-----------|--------------|------------|--------------|-----------------|--------------|---------|----------------|--------|----------------|
|                             | Seal Type | Ball Circuit | Open Type  | Ball Circuit | Adjustable Type | Ball Circuit | dr (mm) | Tolerance (μm) | D (mm) | Tolerance (μm) |
| 3                           | LME3      | 4            | -          | -            | -               | -            | 3       |                | 7      |                |
| 4                           | LME4      | 4            | -          | -            | -               | -            | 4       |                | 8      | 0 -8           |
| 5                           | LME5UU    | 4            | -          | -            | LME5UUAJ        | 4            | 5       | +8 0           | 12     |                |
| 8                           | LME8UU    | 4            | -          | -            | LME8UUAJ        | 4            | 8       |                | 16     |                |
| 12                          | LME12UU   | 4            | LME12UU-OP | 3            | LME12UUAJ       | 4            | 12      |                | 22     | 0 -9           |
| 16                          | LME16UU   | 5            | LME16UU-OP | 4            | LME16UUAJ       | 5            | 16      | +9 -1          | 26     |                |
| 20                          | LME20UU   | 5            | LME20UU-OP | 4            | LME20UUAJ       | 5            | 20      |                | 32     |                |
| 25                          | LME25UU   | 6            | LME25UU-OP | 5            | LME25UUAJ       | 6            | 25      | +11 -1         | 40     | 0 -11          |
| 30                          | LME30UU   | 6            | LM30UU-OP  | 5            | LME30UUAJ       | 6            | 30      |                | 47     |                |
| 40                          | LME40UU   | 6            | LM40UU-OP  | 5            | LME40UUAJ       | 6            | 40      |                | 62     | 0 -13          |
| 50                          | LME50UU   | 6            | LM50UU-OP  | 5            | LME50UUAJ       | 6            | 50      | +13 -2         | 75     |                |
| 60                          | LME60UU   | 6            | LM60UU-OP  | 5            | LME60UUAJ       | 6            | 60      |                | 90     | 0 -15          |

| Main dimensions and tolerance |                |        |                |        |         |        |         |     | Eccentricity (Max) μm | Radial clearance (Max) μm | Basic load rating |      | Weight (g) | Part No. |
|-------------------------------|----------------|--------|----------------|--------|---------|--------|---------|-----|-----------------------|---------------------------|-------------------|------|------------|----------|
| L (mm)                        | Tolerance (μm) | B (mm) | Tolerance (μm) | W (mm) | D1 (mm) | h (mm) | h1 (mm) | θ   |                       |                           | C N               | Co N |            |          |
| 10                            |                | -      |                | -      | -       | -      | -       | -   | 10                    | -3                        | 69                | 105  | 1.35       | LME3     |
| 12                            | 0 -120         | -      |                | -      | -       | -      | -       | -   |                       |                           | 88                | 127  | 1.9        | LME4     |
| 22                            |                | 14.5   |                | 1.1    | 11.5    | -      | -       | -   | 12                    | -3                        | 206               | 265  | 11         | LME5UU   |
| 25                            |                | 16.5   |                | 1.1    | 15.2    | -      | -       | -   |                       |                           | 265               | 402  | 22         | LME8UU   |
| 32                            | 0 -200         | 22.9   | 0 -300         | 1.3    | 21      | 1.5    | 7.5     | 78° | 12                    | -4                        | 510               | 784  | 45         | LME12UU  |
| 36                            |                | 24.9   |                | 1.3    | 24.9    | 1.5    | 10      | 78° |                       |                           | 578               | 892  | 60         | LME16UU  |
| 45                            |                | 31.5   |                | 1.6    | 30.3    | 2      | 10      | 60° | 15                    | -6                        | 862               | 1370 | 102        | LME20UU  |
| 58                            |                | 44.1   |                | 1.85   | 37.5    | 2      | 12.5    | 60° |                       |                           | 980               | 1570 | 235        | LME25UU  |
| 68                            |                | 52.1   |                | 1.85   | 44.5    | 2      | 12.5    | 50° | 15                    | -8                        | 1570              | 2740 | 360        | LME30UU  |
| 80                            | 0 -300         | 60.6   | 0 -400         | 2.15   | 59      | 3      | 16.8    | 50° |                       |                           | 2160              | 4020 | 770        | LME40UU  |
| 100                           |                | 77.6   |                | 2.65   | 72      | 3      | 21      | 50° | 17                    | -13                       | 3820              | 7940 | 1250       | LME50UU  |
| 125                           | 0 -400         | 101.7  |                | 3.15   | 86.5    | 3      | 27.2    | 54° |                       |                           | 4700              | 9800 | 2220       | LME60UU  |

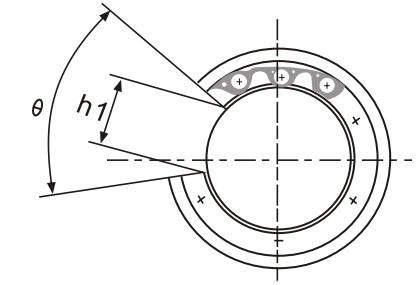
Series **LMB**



LMB



LMB -AJ



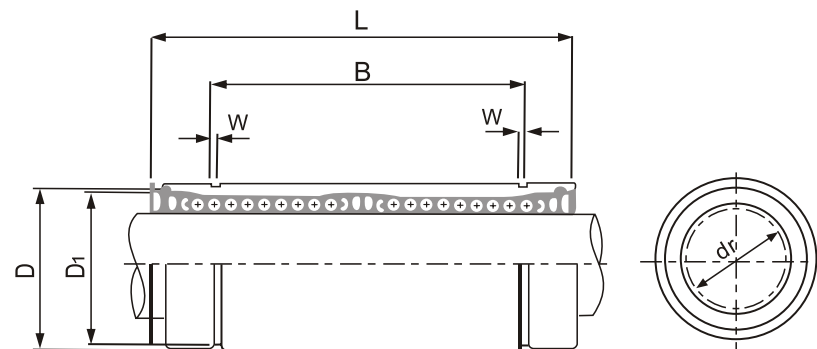
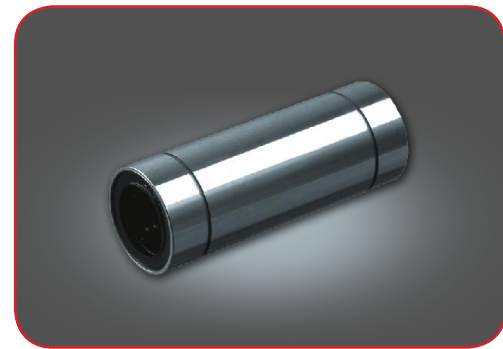
LMB -OP

| Nominal shaft diameter (mm) | Part No.  |              |           |              |                 |              |              |                |               |                |
|-----------------------------|-----------|--------------|-----------|--------------|-----------------|--------------|--------------|----------------|---------------|----------------|
|                             | Seal Type | Ball Circuit | Open Type | Ball Circuit | Adjustable Type | Ball Circuit | dr inch /mm  | Tolerance (µm) | D inch /mm    | Tolerance (µm) |
| 04                          | LMB04UU   | 3            | -         | -            | -               | 3            | 1/4" 6.35    | 0 -9           | 0.5" 12.7     | 0 -11          |
| 06                          | LMB06UU   | 4            | -         | -            | -               | 4            | 3/8" 9.525   |                | 0.625" 15.875 | 0 -13          |
| 08                          | LMB08UU   | 4            | LMB08OP   | 3            | LMB08AJ         | 4            | 1/2" 12.7    |                | 0.875" 22.225 |                |
| 10                          | LMB10UU   | 4            | LMB10OP   | 3            | LMB10AJ         | 4            | 5/8" 15.875  | 1.125" 28.575  | 0 -10         | 0 -16          |
| 12                          | LMB12UU   | 5            | LMB12OP   | 4            | LMB12AJ         | 5            | 3/4" 19.05   | 1.25" 31.75    |               |                |
| 16                          | LMB16UU   | 5            | LMB16OP   | 4            | LMB16AJ         | 5            | 1" 25.4      | 1.5625" 39.688 |               |                |
| 20                          | LMB20UU   | 6            | LMB20OP   | 5            | LMB20AJ         | 6            | 1-1/4" 31.75 | 2" 50.8        | 0 -12         | 0 -19          |
| 24                          | LMB24UU   | 6            | LMB24OP   | 5            | LMB24AJ         | 6            | 1-1/2" 38.1  | 2.375" 60.325  |               |                |
| 32                          | LMB32UU   | 6            | LMB32OP   | 5            | LMB32AJ         | 6            | 2" 50.8      | 3" 76.2        |               |                |

| Main dimensions and tolerance |                |               |                |               |                |            |                 |     | Eccentricity (Max) µm | Radial clearance (Max) µm | Basic load rating |      | Weight (g) | Part No. |
|-------------------------------|----------------|---------------|----------------|---------------|----------------|------------|-----------------|-----|-----------------------|---------------------------|-------------------|------|------------|----------|
| L inch /mm                    | Tolerance (µm) | B inch /mm    | Tolerance (µm) | W inch /mm    | D1 inch /mm    | h inch /mm | h1 inch /mm     | θ   |                       |                           | C N               | Co N |            |          |
| 0.75" 19.05                   | 0 -200         | 0.511" 12.98  | 0 -200         | 0.039" 0.992  | 0.4687" 11.906 | 0.04" 1    | -               | -   | 12                    | -3                        | 206               | 265  | 9.5        | LMB04UU  |
| 0.875" 22.225                 |                | 0.6385" 16.15 |                | 0.039" 0.992  | 0.588" 14.935  | 0.04" 1    | -               | -   |                       |                           | 225               | 314  | 15         | LMB06UU  |
| 1.25" 31.75                   |                | 0.9625" 24.46 |                | 0.0459" 1.168 | 0.8209" 20.853 | 0.06" 1.5  | 0.34" 7.9375    | 80° |                       |                           | 510               | 784  | 42         | LMB08UU  |
| 1.5" 38.1                     | 0 -300         | 1.1039" 28.04 | 0 -300         | 0.0559" 1.422 | 1.059" 26.899  | 0.06" 1.5  | 0.375" 9.525    | 80° | 15                    | -4                        | 774               | 1180 | 85         | LMB10UU  |
| 1.625" 41.275                 |                | 1.1657" 29.61 |                | 0.0559" 1.422 | 1.176" 29.87   | 0.06" 1.5  | 0.4375" 11.1125 | 60° |                       |                           | 862               | 1370 | 104        | LMB12UU  |
| 2.25" 57.15                   |                | 1.7547" 44.57 |                | 0.0679" 1.727 | 1.4687" 37.306 | 0.06" 1.5  | 0.5625" 14.2875 | 50° |                       |                           | 980               | 1570 | 220        | LMB16UU  |
| 2.625" 66.675                 | 0 -300         | 2.0047" 50.92 | 0 -300         | 0.0679" 1.727 | 1.8859" 47.904 | 0.10" 2.5  | 0.625" 15.875   | 50° | 20                    | -8                        | 1570              | 2740 | 465        | LMB20UU  |
| 3" 76.2                       |                | 2.4118" 61.26 |                | 0.0859" 2.184 | 2.2389" 56.87  | 0.12" 3    | 0.75" 19.05     | 50° |                       |                           | 2180              | 4020 | 720        | LMB24UU  |
| 4" 101.6                      |                | 3.1917" 81.07 |                | 0.1029" 2.616 | 2.8379" 72.085 | 0.12" 3    | 1" 25.4         | 50° |                       |                           | 3820              | 7940 | 1310       | LMB32UU  |

Linear Bush Series  
LM-L Series

Series **LM-L**

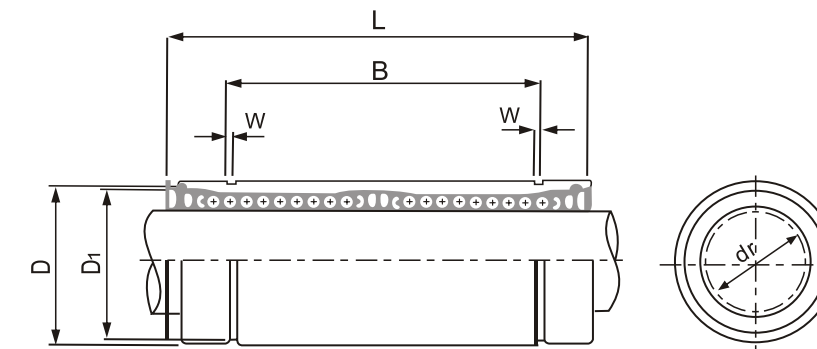
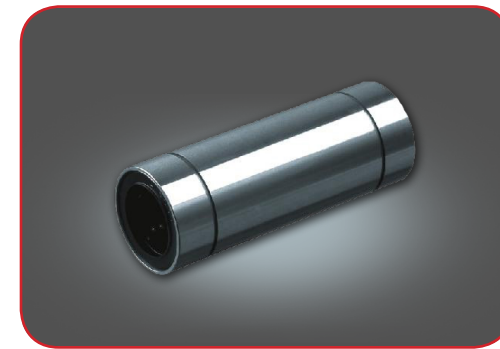


LM -L

| Nominal shaft diameter (mm) | Part No.  |              | Main dimensions and tolerance |                |        |                |        |                |        |                |        |         |      |      | Basic load rating | Eccentricity | Weight (g) |       |      |       |
|-----------------------------|-----------|--------------|-------------------------------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|---------|------|------|-------------------|--------------|------------|-------|------|-------|
|                             | Seal Type | Ball Circuit | dr (mm)                       | Tolerance (μm) | D (mm) | Tolerance (μm) | L (mm) | Tolerance (μm) | B (mm) | Tolerance (μm) | W (mm) | D1 (mm) | C N  | Co N |                   |              |            |       |      |       |
| 6                           | LM6LUU    | 4            | 6                             | 0<br>-10       | 12     | 0<br>-13       | 35     | 0<br>-300      | 27     | 0<br>-400      | 1.1    | 11.5    | 323  | 530  | 15                | 16           |            |       |      |       |
| 8                           | LM8LUU    | 4            | 8                             |                | 15     | 45             | 35     |                | 1.1    |                | 14.3   | 431     | 784  | 31   |                   |              |            |       |      |       |
| 10                          | LM10LUU   | 4            | 10                            |                | 19     | 55             | 44     |                | 1.3    |                | 18     | 588     | 1100 | 62   |                   |              |            |       |      |       |
| 12                          | LM12LUU   | 4            | 12                            |                | 21     | 57             | 46     |                | 1.3    |                | 20     | 813     | 1570 | 80   |                   |              |            |       |      |       |
| 13                          | LM13LUU   | 4            | 13                            | 0<br>-16       | 23     | 0<br>-300      | 61     | 46             | 1.3    | 22             | 813    | 1570    | 15   | 90   |                   |              |            |       |      |       |
| 16                          | LM16LUU   | 5            | 16                            |                | 28     |                | 70     |                |        |                |        |         |      |      | 53                | 1.6          | 27         | 1230  | 2350 | 145   |
| 20                          | LM20LUU   | 5            | 20                            | 0<br>-12       | 32     | 0<br>-19       | 80     | 61             | 1.6    | 30.5           | 1400   | 2740    | 20   | 180  |                   |              |            |       |      |       |
| 25                          | LM25LUU   | 6            | 25                            |                | 40     |                | 112    |                |        |                |        |         |      |      | 82                | 1.85         | 38         | 1560  | 3140 | 440   |
| 30                          | LM30LUU   | 6            | 30                            |                | 45     |                | 123    |                |        |                |        |         |      |      | 89                | 1.85         | 43         | 2490  | 5490 | 480   |
| 35                          | LM35LUU   | 6            | 35                            |                | 52     |                | 135    |                |        |                |        |         |      |      | 99                | 2.1          | 49         | 2650  | 6270 | 795   |
| 40                          | LM40LUU   | 6            | 40                            | 0<br>-15       | 60     | 0<br>-22       | 151    | 0<br>-400      | 121    | 0<br>-500      | 2.1    | 57      | 3430 | 8040 | 25                | 1170         |            |       |      |       |
| 50                          | LM50LUU   | 6            | 50                            | 80             | 192    | 148            | 2.6    |                |        |                |        |         |      |      |                   | 76.5         | 6080       | 15900 | 3100 |       |
| 60                          | LM60LUU   | 6            | 60                            | 0<br>-20       | 90     | 0<br>-25       | 209    |                |        |                |        |         |      |      |                   | 170          | 3.15       | 86.5  | 7550 | 20000 |

Linear Bush Series  
LME-L Series

Series **LME-L**



LME -L

| Nominal shaft diameter (mm) | Part No.  |              | Main dimensions and tolerance |                |        |                |        |                |        |                |        |         |       |      | Basic load rating | Eccentricity | Weight (g) |
|-----------------------------|-----------|--------------|-------------------------------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|---------|-------|------|-------------------|--------------|------------|
|                             | Seal Type | Ball Circuit | dr (mm)                       | Tolerance (μm) | D (mm) | Tolerance (μm) | L (mm) | Tolerance (μm) | B (mm) | Tolerance (μm) | W (mm) | D1 (mm) | C N   | Co N |                   |              |            |
| 8                           | LME8LUU   | 4            | 8                             | +9<br>-1       | 16     | 0<br>-9        | 46     | 0<br>-300      | 33     | 0<br>-400      | 1.1    | 15.2    | 421   | 804  | 15                | 40           |            |
| 12                          | LME12LUU  | 4            | 12                            |                | 22     | 61             | 45.8   |                | 1.3    |                | 21     | 813     | 1570  | 80   |                   |              |            |
| 16                          | LME16LUU  | 5            | 16                            | +11<br>-1      | 26     | 0<br>-11       | 68     | 0<br>-300      | 49.8   | 0<br>-400      | 1.3    | 24.9    | 921   | 1780 | 17                | 115          |            |
| 20                          | LME20LUU  | 5            | 20                            |                | 32     | 80             | 61     |                | 1.6    |                | 30.5   | 1370    | 2740  | 180  |                   |              |            |
| 25                          | LME25LUU  | 6            | 25                            | +13<br>-2      | 40     | 0<br>-13       | 112    | 0<br>-400      | 82     | 0<br>-500      | 1.85   | 38      | 1570  | 3140 | 20                | 430          |            |
| 30                          | LME30LUU  | 6            | 30                            |                | 47     | 123            | 104.2  |                | 1.85   |                | 44.5   | 2500    | 5490  | 615  |                   |              |            |
| 40                          | LME40LUU  | 6            | 40                            | +16<br>-4      | 62     | 0<br>-15       | 151    | 0<br>-400      | 121.2  | 0<br>-500      | 2.15   | 59      | 3430  | 8040 | 25                | 1400         |            |
| 50                          | LME50LUU  | 6            | 50                            |                | 75     | 192            | 155.2  |                | 2.65   |                | 72     | 6080    | 15900 | 2320 |                   |              |            |
| 60                          | LME60LUU  | 6            | 60                            |                | 90     | 209            | 170    |                | 3.15   |                | 86.5   | 7550    | 20000 | 3900 |                   |              |            |

Slide Unit Series

Shaft Support Series

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ball Screw Support Unit

Cross Roller Guide

Slide Unit Series

Shaft Support Series

Linear Guide

Rectangle Wheel Linear Rail

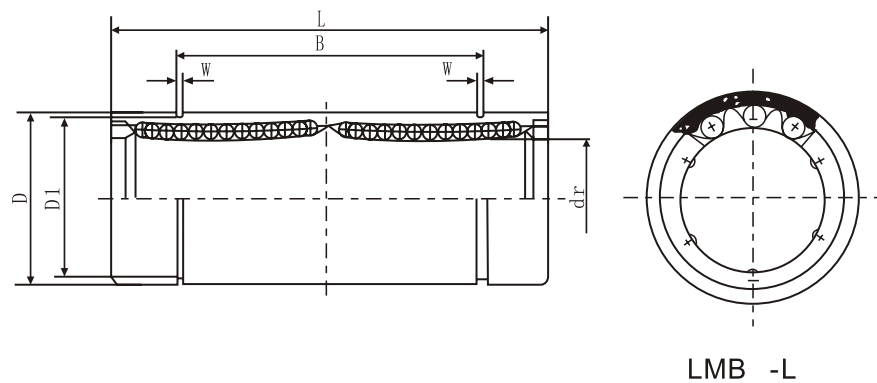
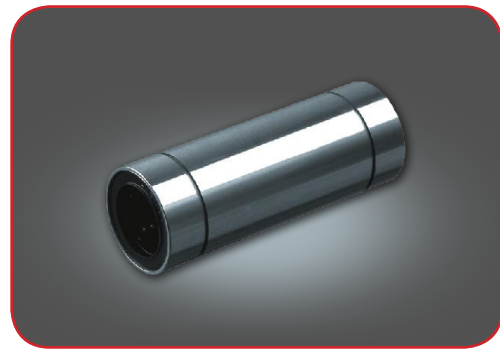
Ball Screw

Ball Screw Support Unit

Cross Roller Guide

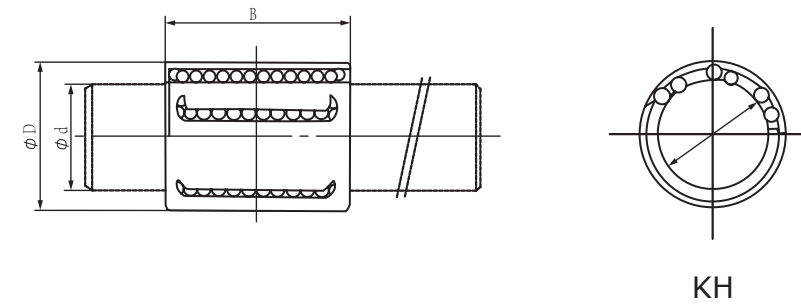
Linear Bush Series  
LMB-L Series  
Side Unit Series  
Shaft Support Series  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide

Series **LMB-L**



| Nominal shaft diameter (mm) | Part No.  |              | Main dimensions and tolerance |                |               |                 |                 |                |                |                |               | Basic load rating |     | Eccentricity | Weight (g) |      |
|-----------------------------|-----------|--------------|-------------------------------|----------------|---------------|-----------------|-----------------|----------------|----------------|----------------|---------------|-------------------|-----|--------------|------------|------|
|                             | Seal Type | Ball Circuit | dr inch/mm                    | Tolerance (μm) | D inch/mm     | Tolerance (μm)  | L inch/mm       | Tolerance (μm) | B inch/mm      | Tolerance (μm) | W inch/mm     | D1 inch/mm        | C N |              |            | Co N |
| 04                          | LMB04LUU  | 3            | 1/4" 6.35                     | 0 -10          | 0.5" 12.7     | 0 -13           | 1.375" 34.925   | 0 -300         | 1.022" 25.959  | 0 -300         | 0.039" 0.992  | 0.468" 11.906     | 323 | 530          | 15         | 17.5 |
| 06                          | LMB06LUU  | 4            | 3/8" 9.525                    |                | 0.625" 15.875 | 0 -16           | 1.5938" 40.481  |                | 1.2716" 32.298 |                | 0.039" 0.992  | 0.588" 14.935     | 353 | 630          |            | 17.5 |
| 08                          | LMB08LUU  | 4            | 1/2" 12.7                     |                | 0.875" 22.225 | 0 -16           | 2.375" 60.325   |                | 1.925" 48.895  |                | 0.0459" 1.168 | 0.8209" 20.853    | 813 | 1570         |            | 80   |
| 10                          | LMB10LUU  | 4            | 5/8" 15.875                   | 1.125" 28.575  | 0 -16         | 2.8125" 71.438  | 2.2079" 56.08   | 0.0559" 1.422  | 1.0590" 26.899 | 1230           | 2350          | 160               |     |              |            |      |
| 12                          | LMB12LUU  | 5            | 3/4" 19.05                    | 0 -12          | 1.25" 31.75   | 0 -19           | 3.0937" 78.581  | 2.3314" 59.218 | 0.0559" 1.422  | 1.176" 29.87   | 1370          | 2740              | 20  | 195          |            |      |
| 16                          | LMB16LUU  | 5            | 1" 25.4                       | 1.5625" 39.688 | 0 -19         | 4.2813" 108.744 | 3.5094" 89.139  | 0.0679" 1.727  | 1.4687" 37.306 | 1570           | 3140          | 410               |     |              |            |      |
| 20                          | LMB20LUU  | 6            | 1-1/4" 31.75                  | 2" 50.8        | 0 -15         | 5" 127          | 4.0094" 101.839 | 0.0679" 1.727  | 1.8859" 47.904 | 2500           | 5490          | 820               |     |              |            |      |
| 24                          | LMB24LUU  | 6            | 1-1/2" 38.1                   | 2.375" 60.325  | 0 -22         | 5.6875" 144.463 | 4.8236" 122.519 | 0.0859" 2.184  | 2.2389" 56.87  | 3430           | 8040          | 1250              |     |              |            |      |
| 32                          | LMB32LUU  | 6            | 2" 50.8                       | 3" 76.2        | 0 -25         | 7.75" 196.85    | 6.3834" 162.138 | 0.1029" 2.616  | 2.8379" 72.085 | 6080           | 15900         | 2350              |     |              |            |      |

Series **KH**

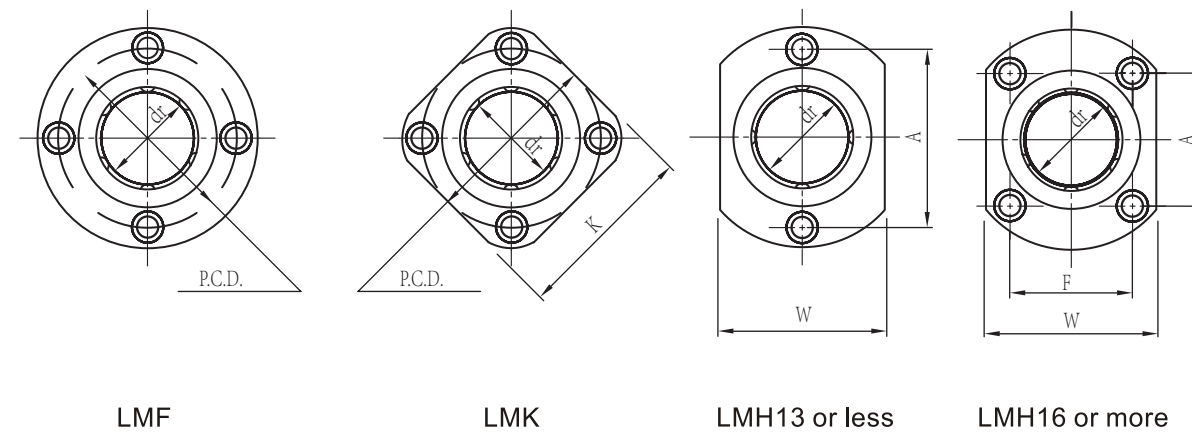
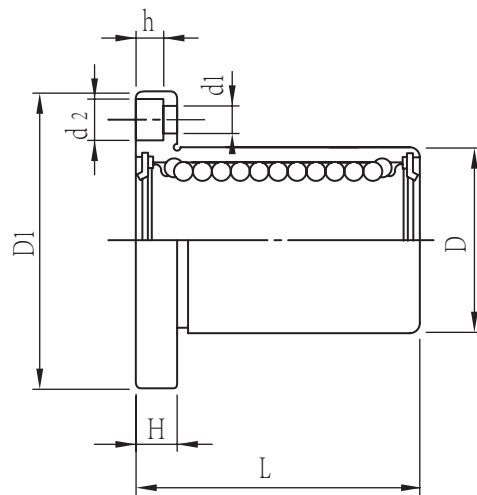
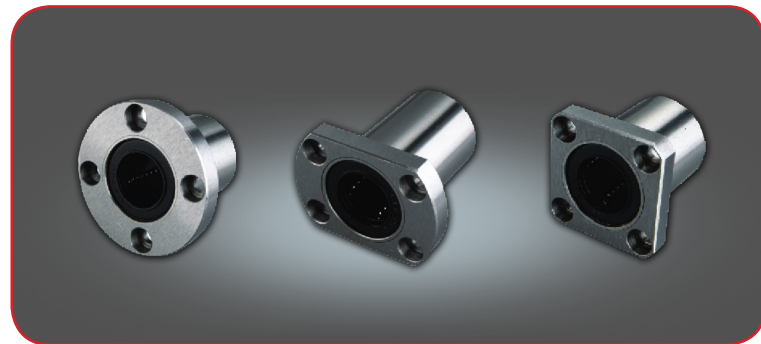


| Part No. | Main dimensions and tolerance |    |    | Basic load rating |      | Weight (g) |
|----------|-------------------------------|----|----|-------------------|------|------------|
|          | Φd                            | ΦD | B  | C N               | Co N |            |
| KH-0622  | 6                             | 12 | 22 | 400               | 239  | 7          |
| KH-0824  | 8                             | 15 | 24 | 435               | 280  | 12         |
| KH-1026  | 10                            | 17 | 26 | 500               | 370  | 14.5       |
| KH-1228  | 12                            | 19 | 28 | 620               | 510  | 18.5       |
| KH-1428  | 14                            | 21 | 28 | 620               | 520  | 20.5       |
| KH-1630  | 16                            | 24 | 30 | 800               | 620  | 27.5       |
| KH-2030  | 20                            | 28 | 30 | 950               | 790  | 32.5       |
| KH-2540  | 25                            | 35 | 40 | 1990              | 1670 | 66         |
| KH-3050  | 30                            | 40 | 50 | 2800              | 2700 | 95         |
| KH-4060  | 40                            | 52 | 60 | 4400              | 4450 | 182        |
| KH-5070  | 50                            | 62 | 70 | 5500              | 6300 | 252        |

Linear Bush Series  
KH Series  
Side Unit Series  
Shaft Support Series  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide



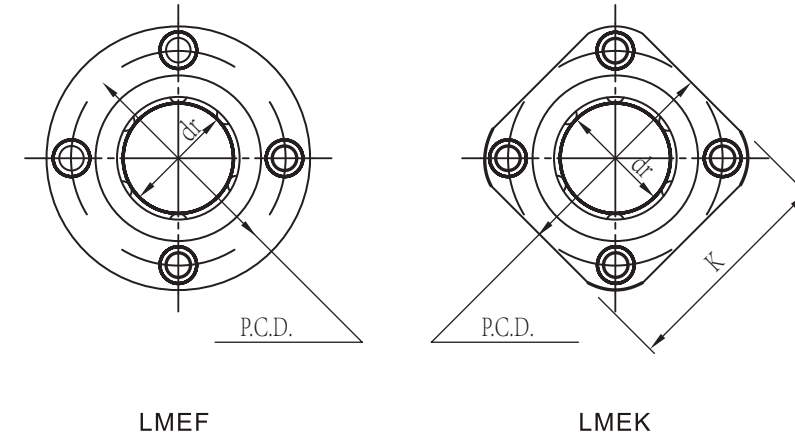
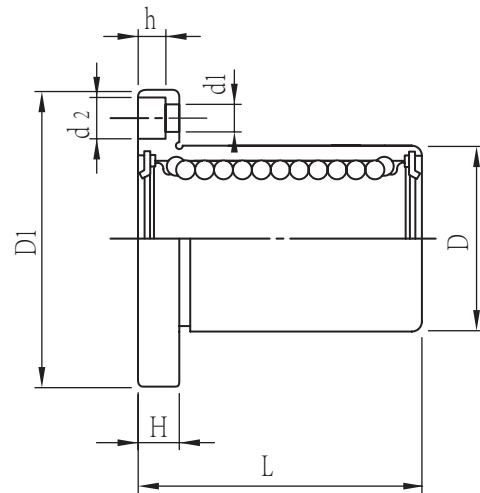
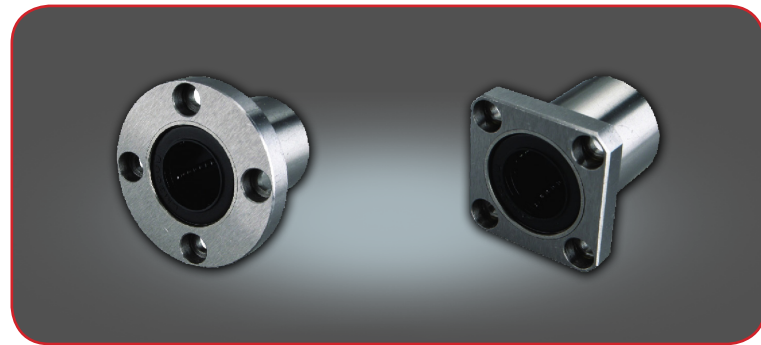
Series **LMF/K/H**



| Nominal shaft diameter (mm) | Part No.  |          |         | Main dimensions and tolerance |         |        |                |             |         |        |          |        |        |        |  |
|-----------------------------|-----------|----------|---------|-------------------------------|---------|--------|----------------|-------------|---------|--------|----------|--------|--------|--------|--|
|                             | Seal Type |          |         | Ball Circuit                  | dr (mm) | D (mm) | Tolerance (μm) | L ±0.3 (mm) | D1 (mm) | H (mm) | PCD (mm) | K (mm) | W (mm) | A (mm) |  |
|                             |           |          |         |                               |         |        |                |             |         |        |          |        |        |        |  |
| 6                           | LMF6UU    | LMK6UU   | LMH6UU  | 4                             | 6       | 12     | 0              | 19          | 28      | 5      | 20       | 22     | 18     | 20     |  |
| 8                           | LMF8UU    | LMK8UU   | LMH8UU  | 4                             | 8       | 15     | -11            | 24          | 32      | 5      | 24       | 25     | 21     | 24     |  |
| 10                          | LMF10UU   | LMK10UU  | LMH10UU | 4                             | 10      | 19     | 0              | 29          | 40      | 6      | 29       | 30     | 25     | 29     |  |
| 12                          | LMF12UU   | LMK12UU  | LMH12LU | 4                             | 12      | 21     | -9             | 30          | 42      | 6      | 32       | 32     | 27     | 32     |  |
| 13                          | LMF13UU   | LMK13UU  | LMH13UU | 4                             | 13      | 23     | -13            | 32          | 43      | 6      | 33       | 34     | 29     | 33     |  |
| 16                          | LMF16UU   | LMK16UU  | LMH16UU | 5                             | 16      | 28     |                | 37          | 48      | 6      | 38       | 37     | 34     | 31     |  |
| 20                          | LMF20UU   | LMK20UU  | LMH20UU | 5                             | 20      | 32     |                | 42          | 54      | 8      | 43       | 42     | 38     | 36     |  |
| 25                          | LMF25UU   | LMK25UU  | LMH25UU | 6                             | 25      | 40     | 0              | 59          | 62      | 8      | 51       | 50     | 46     | 40     |  |
| 30                          | LMF30UU   | LMK30UU  | LMH30UU | 6                             | 30      | 45     | -10            | 64          | 74      | 10     | 60       | 58     | 51     | 49     |  |
| 35                          | LMF35UU   | LMK35UU  | -       | 6                             | 35      | 52     |                | 70          | 82      | 10     | 67       | 64     | -      | -      |  |
| 40                          | LMF40UU   | LMK40UU  | -       | 6                             | 40      | 60     | 0              | 80          | 96      | 13     | 78       | 75     | -      | -      |  |
| 50                          | LMF50UU   | LMK50UU  | -       | 6                             | 50      | 80     | -12            | 100         | 116     | 13     | 98       | 92     | -      | -      |  |
| 60                          | LMF60UU   | LMK60UU  | -       | 6                             | 60      | 90     | 0              | 110         | 134     | 18     | 112      | 106    | -      | -      |  |
| 80                          | LMF80UU   | LMK80UU  | -       | 6                             | 80      | 120    | 0              | 140         | 164     | 18     | 142      | 136    | -      | -      |  |
| 100                         | LMF100UU  | LMK100UU | -       | 6                             | 100     | 150    | 0              | 175         | 200     | 20     | 175      | 170    | -      | -      |  |

| F (mm) | d1Xd2Xh (mm) | Eccentricity (Max) μm | Radial clearance (Max) μm | Basic load rating |       | Weight (g) | Part No.   |             |
|--------|--------------|-----------------------|---------------------------|-------------------|-------|------------|------------|-------------|
|        |              |                       |                           | C N               | Co N  |            |            |             |
| -      | 3.5X6X3.1    | 12                    | -3                        | 206               | 265   | 24         | LMF/K/6UU  |             |
| -      | 3.5X6X3.1    |                       |                           | 274               | 392   | 37         | LMF/K/8UU  |             |
| -      | 4.5X7.5X4.1  |                       |                           | 372               | 549   | 72         | LMF/K/10UU |             |
| -      | 4.5X7.5X4.1  |                       | -4                        | 510               | 784   | 76         | LMF/K/12UU |             |
| -      | 4.5X7.5X4.1  |                       |                           | 510               | 784   | 88         | LMF/K/13UU |             |
| 22     | 4.5X7.5X4.1  |                       |                           | 774               | 1180  | 120        | LMF/K/16UU |             |
| 24     | 5.5X9X5.1    | 15                    | -6                        | 882               | 1370  | 180        | LMF/K/20UU |             |
| 32     | 5.5X9X5.1    |                       |                           | 980               | 1570  | 340        | LMF/K/25UU |             |
| 35     | 6.6X11X6.1   |                       |                           | 1570              | 2740  | 470        | LMF/K/30UU |             |
| -      | 6.6X11X6.1   | 20                    | -8                        | 1670              | 3140  | 650        | LMF/K/35UU |             |
| -      | 9X14X8.1     |                       |                           | -10               | 2160  | 4020       | 1060       | LMF/K/40UU  |
| -      | 9X14X8.1     |                       |                           |                   | 3820  | 7940       | 2200       | LMF/K/50UU  |
| -      | 11X17X11.1   | 25                    | -13                       | 4700              | 10000 | 3000       | LMF/K/60UU |             |
| -      | 11X17X11.1   |                       |                           | 7350              | 16000 | 5800       | LMF/K/80UU |             |
| -      | 14X20X13.1   |                       |                           | -20               | 14100 | 34800      | 10600      | LMF/K/100UU |

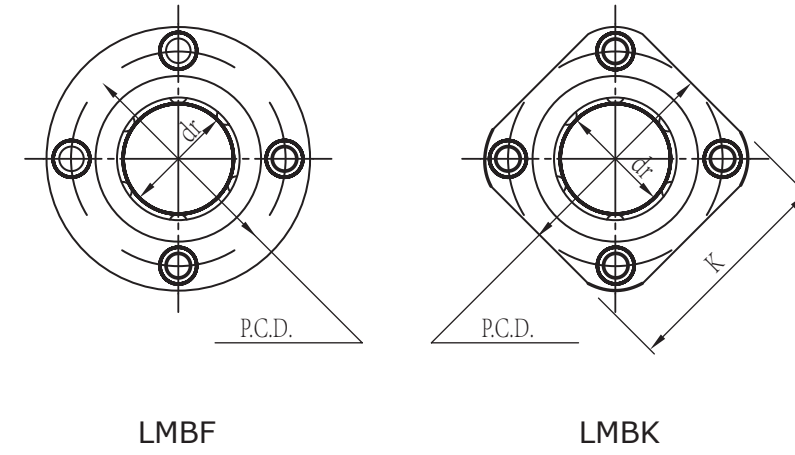
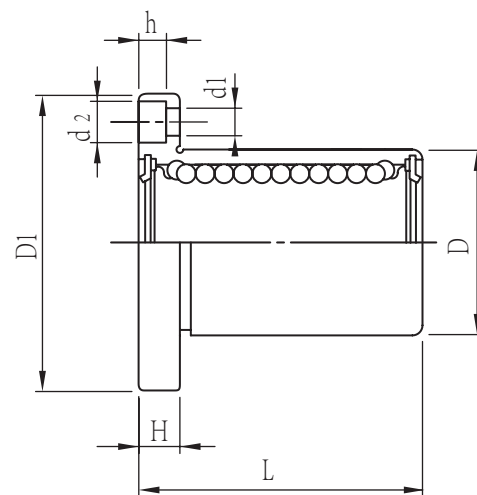
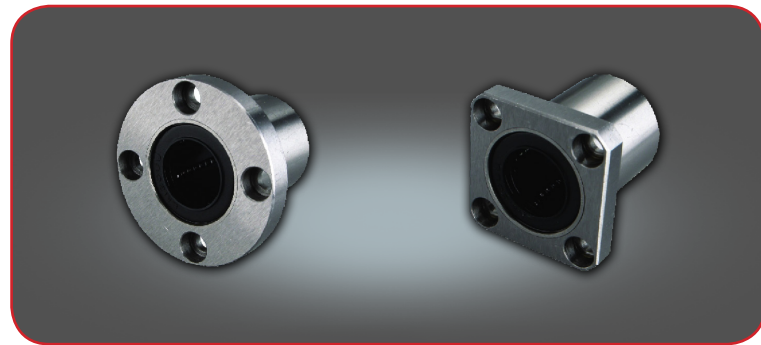
Series **LMEF/K**



| Nominal shaft diameter (mm) | Part No.  |              | Main dimensions and tolerance |                |           |                |             |         |     |
|-----------------------------|-----------|--------------|-------------------------------|----------------|-----------|----------------|-------------|---------|-----|
|                             | Seal Type | Ball Circuit | dr (mm)                       | Tolerance (μm) | D (mm)    | Tolerance (μm) | L ±0.3 (mm) | D1 (mm) |     |
| 8                           | LMEF8UU   | LMEK8UU      | 4                             | 8              | +8<br>0   | 16             | 0<br>-11    | 25      | 32  |
| 12                          | LMEF12UU  | LMEK12UU     | 4                             | 12             | +8<br>0   | 22             | 0<br>-13    | 32      | 42  |
| 16                          | LMEF16UU  | LMEK16UU     | 5                             | 16             | +9<br>-1  | 26             | 0<br>-13    | 36      | 46  |
| 20                          | LMEF20UU  | LMEK20UU     | 5                             | 20             | +9<br>-1  | 32             | 0<br>-16    | 45      | 54  |
| 25                          | LMEF25UU  | LMEK25UU     | 6                             | 25             | +11<br>-1 | 40             | 0<br>-16    | 58      | 62  |
| 30                          | LMEF30UU  | LMEK30UU     | 6                             | 30             | +11<br>-1 | 47             | 0<br>-19    | 68      | 76  |
| 40                          | LMEF40UU  | LMEK40UU     | 6                             | 40             | +13<br>-2 | 62             | 0<br>-19    | 80      | 98  |
| 50                          | LMEF50UU  | LMEK50UU     | 6                             | 50             | +13<br>-2 | 75             | 0<br>-22    | 100     | 112 |
| 60                          | LMEF60UU  | LMEK60UU     | 6                             | 60             | +13<br>-2 | 90             | 0<br>-22    | 125     | 134 |

| H (mm) | PCD (mm) | K (mm) | d1xd2xh (mm) | Eccentricity (Max) μm | Radial clearance (Max) μm | Basic load rating |      | Weight (g)  | Part No.    |
|--------|----------|--------|--------------|-----------------------|---------------------------|-------------------|------|-------------|-------------|
|        |          |        |              |                       |                           | C N               | Co N |             |             |
| 5      | 24       | 25     | 3.5x6x3.1    | 12                    | -3                        | 265               | 402  | 41          | LMEF/K/8UU  |
| 6      | 32       | 32     | 4.5x7.5x4.1  |                       | -4                        | 510               | 784  | 80          | LMEF/K/12UU |
| 6      | 36       | 35     | 4.5x7.5x4.1  |                       | 578                       | 892               | 103  | LMEF/K/16UU |             |
| 8      | 43       | 42     | 5.5x9x5.1    | 15                    | -6                        | 862               | 1370 | 182         | LMEF/K/20UU |
| 8      | 51       | 50     | 5.5x9x5.1    |                       | -6                        | 980               | 1570 | 335         | LMEF/K/25UU |
| 10     | 62       | 60     | 6.6x11x6.1   |                       | -8                        | 1570              | 2740 | 560         | LMEF/K/30UU |
| 13     | 80       | 75     | 9x14x8.1     | 20                    | -8                        | 2160              | 4020 | 1175        | LMEF/K/40UU |
| 13     | 94       | 88     | 9x14x8.1     |                       | -13                       | 3820              | 7940 | 1745        | LMEF/K/50UU |
| 18     | 112      | 106    | 11x17x11.1   |                       | -13                       | 4700              | 9800 | 3220        | LMEF/K/60UU |

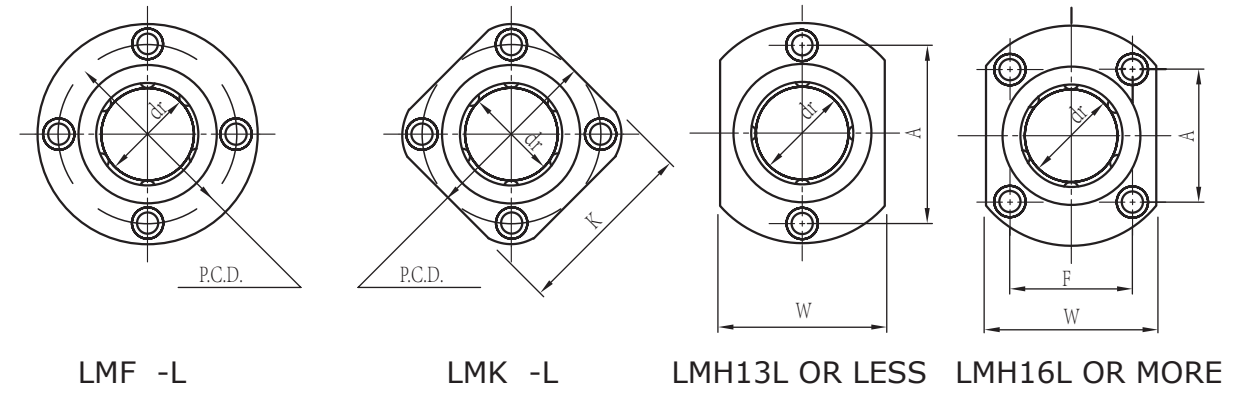
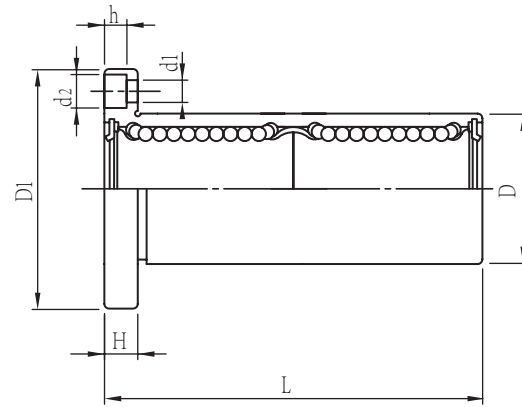
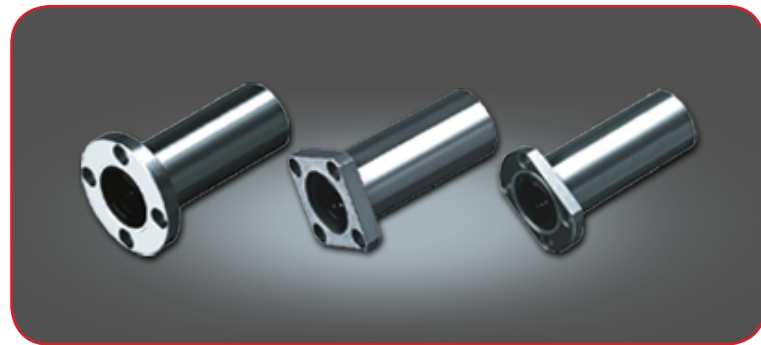
Series **LMBF/K**



| Nominal shaft diameter (mm) | Part No. |                | Main dimensions and tolerance |                 |                |                   |          |                  |                   |                   |
|-----------------------------|----------|----------------|-------------------------------|-----------------|----------------|-------------------|----------|------------------|-------------------|-------------------|
|                             |          |                | Ball Circuit                  | dr (mm)         | Tolerance (µm) | D                 |          | L ±0.3 inch /mm  | D1                | K                 |
|                             | inch /mm | Tolerance (µm) |                               |                 |                | inch /mm          | inch /mm |                  |                   |                   |
| 04                          | LMBF04UU | LMBK04UU       | 3                             | 1/4"<br>6.35    | 0<br>-9        | 0.5"<br>12.7      | 0<br>-13 | 0.75"<br>19.05   | 1.25"<br>31.75    | 1"<br>25.4        |
| 06                          | LMBF06UU | LMBK06UU       | 4                             | 3/8"<br>9.525   |                | 0.625"<br>15.875  | 0<br>-16 | 0.875"<br>22.225 | 1.5"<br>38.1      | 1.25"<br>31.75    |
| 08                          | LMBF08UU | LMBK08UU       | 4                             | 1/2"<br>12.7    | 0<br>-10       | 0.875"<br>22.225  | 0<br>-19 | 1.25"<br>31.75   | 1.75"<br>44.45    | 1.375"<br>34.925  |
| 10                          | LMBF10UU | LMBK10UU       | 4                             | 5/8"<br>15.875  |                | 1.125"<br>28.575  |          | 1.5"<br>38.1     | 2"<br>50.8        | 1.5"<br>38.1      |
| 12                          | LMBF12UU | LMBK12UU       | 4                             | 3/4"<br>19.05   | 0<br>-12       | 1.25"<br>31.75    | 0<br>-22 | 1.625"<br>41.275 | 2.1875"<br>55.563 | 1.6875"<br>42.863 |
| 16                          | LMBF16UU | LMBK16UU       | 5                             | 1"<br>25.4      |                | 1.5625"<br>39.688 |          | 2.25"<br>57.15   | 2.5"<br>63.5      | 2"<br>50.8        |
| 20                          | LMBF20UU | LMBK20UU       | 5                             | 1-1/4"<br>31.75 | 0<br>-13       | 2"<br>50.8        | 0<br>-25 | 2.625"<br>66.675 | 3.125"<br>79.375  | 2.5"<br>63.5      |
| 24                          | LMBF24UU | LMBK24UU       | 6                             | 1-1/2"<br>38.1  |                | 2.375"<br>60.325  |          | 3"<br>76.2       | 3.75"<br>95.25    | 3"<br>76.2        |
| 32                          | LMBF32UU | LMBK32UU       | 6                             | 2"<br>50.8      |                | 3"<br>76.2        |          | 4"<br>101.6      | 4.375"<br>111.125 | 3.5"<br>88.9      |

| H                | PCD               | d1xd2xh                                      | Eccentricity (Max) | Radial clearance (Max) | Basic load rating |      | Weight (g) | Part No.    |
|------------------|-------------------|--|--------------------|------------------------|-------------------|------|------------|-------------|
|                  |                   |  |                    |                        | C N               | Co N |            |             |
| 0.219"<br>5.556  | 0.875"<br>22.225  | 0.156"X0.25"X0.141"<br>3.969X6.35X3.572      | 12                 | -3                     | 206               | 265  | 32         | LMBF/K/04UU |
| 0.25"<br>6.35    | 1.062"<br>26.988  | 0.1875"X0.297"X0.172"<br>4.763X7.541X4.366   |                    |                        | 225               | 314  | 47         | LMBF/K/06UU |
| 0.25"<br>6.35    | 1.312"<br>33.338  | 0.1875"X0.297"X0.172"<br>4.763X7.541X4.366   | 15                 | -4                     | 510               | 784  | 88         | LMBF/K/08UU |
| 0.25"<br>6.35    | 1.562"<br>39.688  | 0.1875"X0.297"X0.172"<br>4.763X7.541X4.366   |                    |                        | 774               | 1180 | 140        | LMBF/K/10UU |
| 0.3125"<br>7.938 | 1.718"<br>43.656  | 0.2187"X0.344"X0.203"<br>5.556X8.731X5.159   | 20                 | -6                     | 862               | 1370 | 190        | LMBF/K/12UU |
| 0.3125"<br>7.938 | 2.031"<br>51.594  | 0.2187"X0.344"X0.203"<br>5.556X8.731X5.159   |                    |                        | 980               | 1570 | 325        | LMBF/K/16UU |
| 0.375"<br>9.525  | 2.5625"<br>65.088 | 0.2187"X0.406"X0.2656"<br>7.144X10.319X6.747 | 25                 | -8                     | 1570              | 2740 | 665        | LMBF/K/20UU |
| 0.5"<br>12.7     | 3.0625"<br>77.788 | 0.344"X0.5"X0.328"<br>8.731X12.7X8.334       |                    |                        | 2180              | 4020 | 1100       | LMBF/K/24UU |
| 0.5"<br>12.7     | 3.6875"<br>93.662 | 0.344"X0.5"X0.328"<br>8.731X12.7X8.334       |                    | -13                    | 3820              | 7940 | 1760       | LMBF/K/32UU |

Series **LMF/K/H-L**

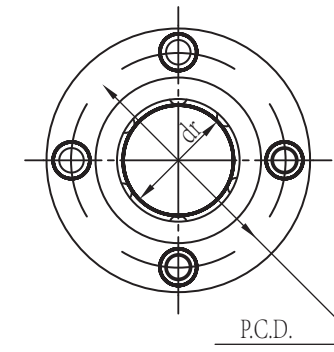
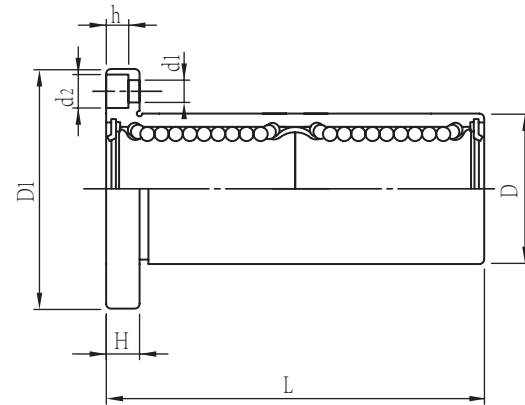
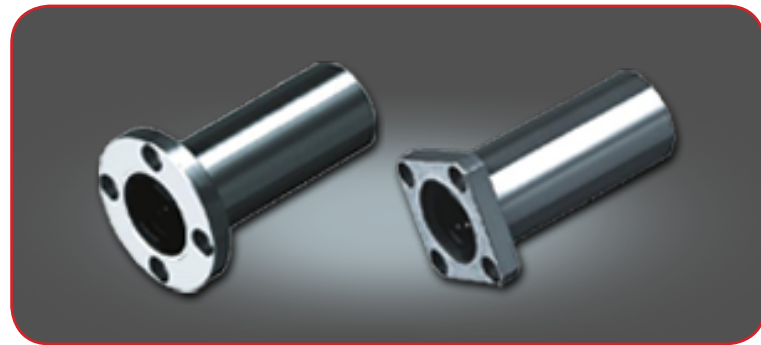


| Nominal shaft diameter (mm) | Part No.  |          |          | Main dimensions and tolerance |         |                |        |                |             |         |        |
|-----------------------------|-----------|----------|----------|-------------------------------|---------|----------------|--------|----------------|-------------|---------|--------|
|                             | Seal Type |          |          | Ball Circuit                  | dr (mm) | Tolerance (μm) | D (mm) | Tolerance (μm) | L ±0.3 (mm) | D1 (mm) | H (mm) |
| 6                           | LMF6LUU   | LMK6LUU  | LMH6LUU  | 4                             | 6       | 0<br>-10       | 12     | 0<br>-13       | 35          | 28      | 5      |
| 8                           | LMF8LUU   | LMK8LUU  | LMH8LUU  | 4                             | 8       |                | 15     |                | 45          | 32      | 5      |
| 10                          | LMF10LUU  | LMK10LUU | LMH10LUU | 4                             | 10      |                | 19     |                | 55          | 40      | 6      |
| 12                          | LMF12LUU  | LMK12LUU | LMH12LUU | 4                             | 12      | 0<br>-16       | 21     | 0<br>-16       | 57          | 42      | 6      |
| 13                          | LMF13LUU  | LMK13LUU | LMH13LUU | 4                             | 13      |                | 23     |                | 61          | 43      | 6      |
| 16                          | LMF16LUU  | LMK16LUU | LMH16LUU | 5                             | 16      |                | 28     |                | 70          | 48      | 6      |
| 20                          | LMF20LUU  | LMK20LUU | LMH20LUU | 5                             | 20      | 0<br>-12       | 32     | 0<br>-19       | 80          | 54      | 8      |
| 25                          | LMF25LUU  | LMK25LUU | LMH25LUU | 6                             | 25      |                | 40     |                | 112         | 62      | 8      |
| 30                          | LMF30LUU  | LMK30LUU | LMH30LUU | 6                             | 30      |                | 45     |                | 123         | 74      | 10     |
| 35                          | LMF35LUU  | LMK35LUU | LMH35LUU | 6                             | 35      | 0<br>-15       | 52     | 0<br>-22       | 135         | 82      | 10     |
| 40                          | LMF40LUU  | LMK40LUU | LMH40LUU | 6                             | 40      |                | 60     |                | 151         | 96      | 13     |
| 50                          | LMF50LUU  | LMK50LUU | LMH50LUU | 6                             | 50      |                | 80     |                | 192         | 116     | 13     |
| 60                          | LMF60LUU  | LMK60LUU | LMH60LUU | 6                             | 60      | 0<br>-20       | 90     | 0<br>-25       | 209         | 134     | 18     |

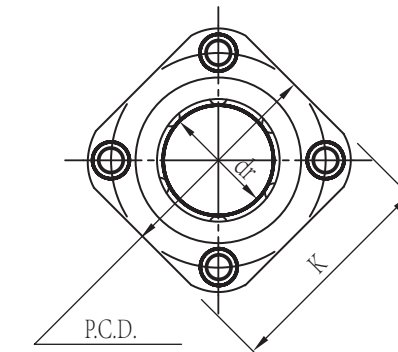
| PCD (mm) | K (mm) | W (mm) | A (mm) | F (mm) | d1xd2xh (mm) | Eccentricity (Max) μm | Radial clearance (Max) μm | Basic load rating |       | Weight (g) | Part No.    |
|----------|--------|--------|--------|--------|--------------|-----------------------|---------------------------|-------------------|-------|------------|-------------|
|          |        |        |        |        |              |                       |                           | C N               | Co N  |            |             |
| 20       | 22     | 18     | 20     | -      | 3.5X6X3.1    | 15                    | -3                        | 323               | 529   | 31         | LMF/K/6LUU  |
| 24       | 25     | 21     | 24     | -      | 3.5X6X3.1    |                       |                           | 431               | 784   | 51         | LMF/K/8LUU  |
| 29       | 30     | 25     | 29     | -      | 4.5X7.5X4.1  |                       |                           | 588               | 1100  | 98         | LMF/K/10LUU |
| 32       | 32     | 27     | 32     | -      | 4.5X7.5X4.1  | 20                    | -4                        | 813               | 1570  | 110        | LMF/K/12LUU |
| 33       | 34     | 29     | 33     | -      | 4.5X7.5X4.1  |                       |                           | 813               | 1570  | 130        | LMF/K/13LUU |
| 38       | 37     | 34     | 31     | 22     | 4.5X7.5X4.1  |                       |                           | 1230              | 2350  | 190        | LMF/K/16LUU |
| 43       | 42     | 38     | 36     | 24     | 5.5X9X5.1    | 25                    | -6                        | 1400              | 2740  | 260        | LMF/K/20LUU |
| 51       | 50     | 46     | 40     | 32     | 5.5X9X5.1    |                       |                           | 1560              | 3140  | 540        | LMF/K/25LUU |
| 60       | 58     | 51     | 49     | 35     | 6.6X11X6.1   |                       |                           | 2490              | 5490  | 680        | LMF/K/30LUU |
| 67       | 64     | -      | -      | -      | 6.6X11X6.1   | 25                    | -8                        | 2650              | 6270  | 1020       | LMF/K/35LUU |
| 78       | 75     | -      | -      | -      | 9X14X8.1     |                       |                           | 3430              | 8040  | 1570       | LMF/K/40LUU |
| 98       | 92     | -      | -      | -      | 9X14X8.1     |                       |                           | 6080              | 15900 | 3600       | LMF/K/50LUU |
| 112      | 105    | -      | -      | -      | 11X17X11.1   | 25                    | -13                       | 7550              | 20000 | 4500       | LMF/K/60LUU |



Series **LMEF/EK-L**



LMEF -L



LMEK -L

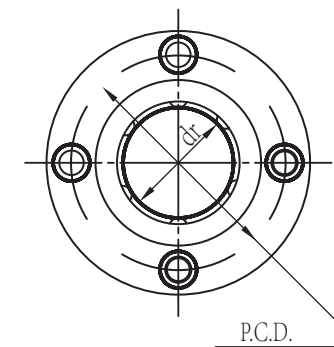
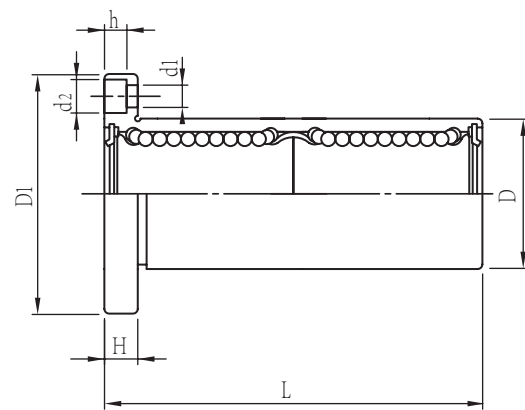
| Nominal shaft diameter (mm) | Part No.       |           | Main dimensions and tolerance |         |        |           |             |         |        |  |
|-----------------------------|----------------|-----------|-------------------------------|---------|--------|-----------|-------------|---------|--------|--|
|                             |                |           | Ball Circuit                  | dr (mm) | D (mm) |           | L ±0.3 (mm) | D1 (mm) | H (mm) |  |
| Tolerance (µm)              | Tolerance (µm) |           |                               |         |        |           |             |         |        |  |
| 8                           | LMEF8LUU       | LMEK8LUU  | 4                             | 8       | 16     | 0<br>-13  | 46          | 32      | 5      |  |
| 12                          | LMEF12LUU      | LMEK12LUU | 4                             | 12      | 22     | 0<br>-16  | 61          | 42      | 6      |  |
| 16                          | LMEF16LUU      | LMEK16LUU | 5                             | 16      | 26     | +11<br>-1 | 68          | 46      | 6      |  |
| 20                          | LMEF20LUU      | LMEK20LUU | 5                             | 20      | 32     | 0<br>-19  | 80          | 54      | 8      |  |
| 25                          | LMEF25LUU      | LMEK25LUU | 6                             | 25      | 40     | +13<br>-2 | 112         | 62      | 8      |  |
| 30                          | LMEF30LUU      | LMEK30LUU | 6                             | 30      | 47     | 0<br>-22  | 123         | 76      | 10     |  |
| 40                          | LMEF40LUU      | LMEK40LUU | 6                             | 40      | 62     | 0<br>-25  | 151         | 98      | 13     |  |
| 50                          | LMEF50LUU      | LMEK50LUU | 6                             | 50      | 75     | +16<br>-4 | 192         | 112     | 13     |  |
| 60                          | LMEF60LUU      | LMEK60LUU | 6                             | 60      | 90     | 0<br>-25  | 209         | 134     | 18     |  |

| PCD (mm) | K (mm) | d1xd2xh (mm) | Eccentricity (Max) µm | Radial clearance (Max) µm | Basic load rating |       | Weight (g) | Part No.     |
|----------|--------|--------------|-----------------------|---------------------------|-------------------|-------|------------|--------------|
|          |        |              |                       |                           | C N               | Co N  |            |              |
| 24       | 25     | 3.5x6x3.1    | 15                    | -3                        | 421               | 804   | 59         | LMEF/K/8LUU  |
| 32       | 32     | 4.5x7.5x4.1  |                       | -4                        | 813               | 1570  | 110        | LMEF/K/12LUU |
| 36       | 35     | 4.5x7.5x4.1  |                       | -6                        | 921               | 1780  | 160        | LMEF/K/16LUU |
| 43       | 42     | 5.5x9x5.1    | 17                    | -6                        | 1370              | 2740  | 260        | LMEF/K/20LUU |
| 51       | 50     | 5.5x9x5.1    |                       | -8                        | 1570              | 3140  | 540        | LMEF/K/25LUU |
| 62       | 60     | 6.6x11x6.1   |                       | -8                        | 2500              | 5490  | 815        | LMEF/K/30LUU |
| 80       | 75     | 9x14x8.1     | 20                    | -8                        | 3430              | 8040  | 1805       | LMEF/K/40LUU |
| 94       | 88     | 9x14x8.1     | 25                    | -13                       | 6080              | 15900 | 2820       | LMEF/K/50LUU |
| 112      | 106    | 11x17x11.1   | 25                    | -13                       | 7550              | 20000 | 4920       | LMEF/K/60LUU |

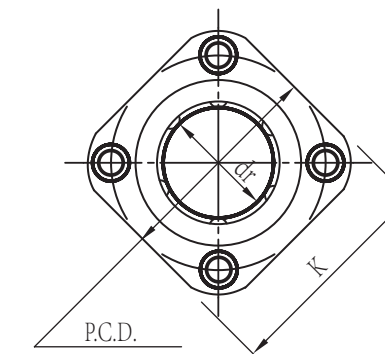
Linear Bush Series  
LMEF/EK-L Series  
Side Unit Series  
Shaft Support Series  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide

Linear Bush Series  
LMEF/EK-L Series  
Side Unit Series  
Shaft Support Series  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide

Series **LMBF/BK-L**



LMBF -L

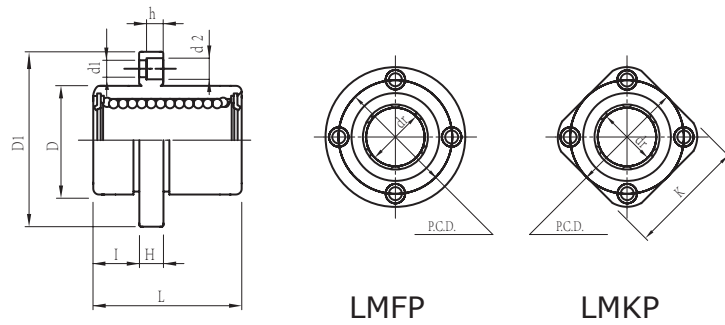
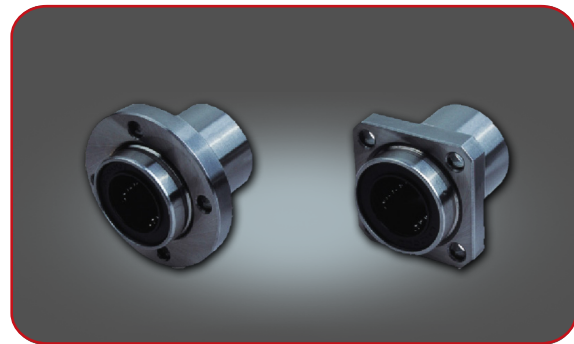


LMBK -L

| Nominal shaft diameter (mm) | Part No.  |              | Main dimensions and tolerance |                 |            |                   |                 |                    |                   |                   |
|-----------------------------|-----------|--------------|-------------------------------|-----------------|------------|-------------------|-----------------|--------------------|-------------------|-------------------|
|                             | Seal Type | Ball Circuit | dr (mm)                       | Tolerance (µm)  | D inch /mm | Tolerance (µm)    | L ±0.3 inch /mm | D1 inch /mm        | K inch /mm        |                   |
| 04                          | LMBF04LUU | LMBK04L      | 3                             | 1/4"<br>6.35    | 0<br>-10   | 0.5"<br>12.7      | 0<br>-13        | 1.375"<br>34.925   | 1.25"<br>31.75    | 1"<br>25.4        |
| 06                          | LMBF06LUU | LMBK06L      | 4                             | 3/8"<br>9.525   |            | 0.625"<br>15.875  | 0<br>-16        | 1.5938"<br>40.481  | 1.5"<br>38.1      | 1.25"<br>31.75    |
| 08                          | LMBF08LUU | LMBK08L      | 4                             | 1/2"<br>12.7    | 0<br>-12   | 0.875"<br>22.225  | 0<br>-19        | 2.375"<br>60.325   | 1.75"<br>44.45    | 1.375"<br>34.925  |
| 10                          | LMBF10LUU | LMBK10L      | 4                             | 5/8"<br>15.875  |            | 1.125"<br>28.575  | 0<br>-22        | 2.8125"<br>71.438  | 2"<br>50.8        | 1.5"<br>38.1      |
| 12                          | LMBF12LUU | LMBK12L      | 4                             | 3/4"<br>19.05   | 0<br>-15   | 1.25"<br>31.75    | 0<br>-25        | 3.0937"<br>78.581  | 2.1875"<br>55.563 | 1.6875"<br>42.863 |
| 16                          | LMBF16LUU | LMBK16L      | 5                             | 1"<br>25.4      |            | 1.5625"<br>39.688 | 0<br>-22        | 4.2813"<br>108.744 | 2.5"<br>63.5      | 2"<br>50.8        |
| 20                          | LMBF20LUU | LMBK20L      | 5                             | 1-1/4"<br>31.75 | 0<br>-15   | 2"<br>50.8        | 0<br>-22        | 5"<br>127.00       | 3.125"<br>79.375  | 2.5"<br>63.5      |
| 24                          | LMBF24LUU | LMBK24L      | 6                             | 1-1/2"<br>38.1  |            | 2.375"<br>60.325  | 0<br>-22        | 5.6875"<br>144.463 | 3.75"<br>95.25    | 3"<br>76.2        |
| 32                          | LMBF32LUU | LMBK32L      | 6                             | 2"<br>50.8      | 3"<br>76.2 | 0<br>-25          | 7.75"<br>196.85 | 4.375"<br>111.125  | 3.5"<br>88.9      |                   |

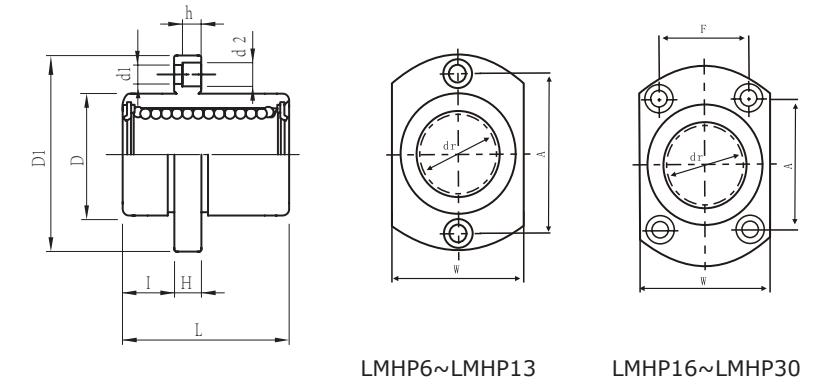
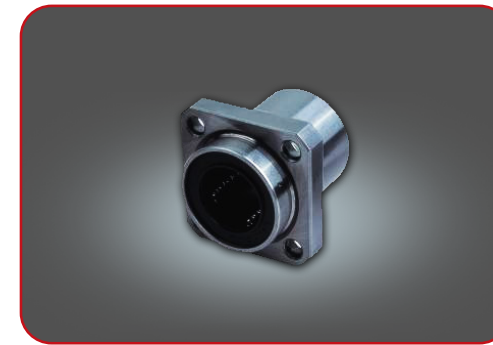
| H inch /mm       | PCD inch /mm      | d1xd2xh inch /mm                             | Eccentricity (Max) µm | Radial clearance (Max) µm | Basic load rating |       | Weight (g) | Part No.     |
|------------------|-------------------|--|-----------------------|---------------------------|-------------------|-------|------------|--------------|
|                  |                   |  |                       |                           | C N               | Co N  |            |              |
| 0.219"<br>5.556  | 0.875"<br>22.225  | 0.156"X0.25"X0.141"<br>3.969X6.35X3.572      | 12                    | -3                        | 323               | 530   | 40         | LMBF/K/04LUU |
| 0.25"<br>6.35    | 1.062"<br>26.988  | 0.1875"X0.297"X0.172"<br>4.763X7.541X4.366   |                       | -4                        | 353               | 630   | 60         | LMBF/K/06LUU |
| 0.25"<br>6.35    | 1.312"<br>33.338  | 0.1875"X0.297"X0.172"<br>4.763X7.541X4.366   |                       | -4                        | 813               | 1570  | 126        | LMBF/K/08LUU |
| 0.25"<br>6.35    | 1.562"<br>39.688  | 0.1875"X0.297"X0.172"<br>4.763X7.541X4.366   | 15                    | -6                        | 1230              | 2350  | 215        | LMBF/K/10LUU |
| 0.3125"<br>7.938 | 1.718"<br>43.656  | 0.2187"X0.344"X0.203"<br>5.556X8.731X5.159   |                       | -6                        | 1370              | 2740  | 280        | LMBF/K/12LUU |
| 0.3125"<br>7.938 | 2.031"<br>51.594  | 0.2187"X0.344"X0.203"<br>5.556X8.731X5.159   |                       | -6                        | 1570              | 3140  | 515        | LMBF/K/16LUU |
| 0.375"<br>9.525  | 2.5625"<br>65.088 | 0.2187"X0.406"X0.2656"<br>7.144X10.319X6.747 | 20                    | -8                        | 2500              | 5490  | 1020       | LMBF/K/20LUU |
| 0.5"<br>12.7     | 3.0625"<br>77.788 | 0.344"X0.5"X0.328"<br>8.731X12.7X8.334       |                       | -13                       | 3430              | 8040  | 1630       | LMBF/K/24LUU |
| 0.5"<br>12.7     | 3.6875"<br>93.662 | 0.344"X0.5"X0.328"<br>8.731X12.7X8.334       |                       | -13                       | 6080              | 15900 | 2800       | LMBF/K/32LUU |

Series **LMFP/KP**



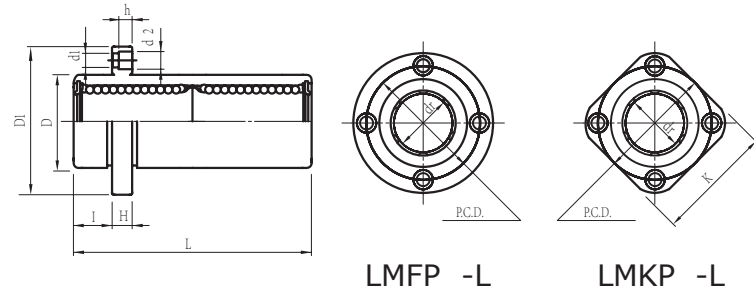
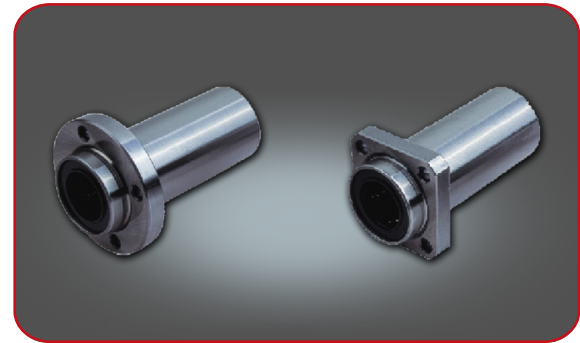
| Nominal shaft diameter (mm) | Part No. | Main dimensions and tolerance |              |         |                |          |                |             |        |         |        |             |             | Basic load rating |      | Eccentricity | Weight (g) |      |
|-----------------------------|----------|-------------------------------|--------------|---------|----------------|----------|----------------|-------------|--------|---------|--------|-------------|-------------|-------------------|------|--------------|------------|------|
|                             |          | Seal Type                     | Ball Circuit | dr (mm) | Tolerance (μm) | D (mm)   | Tolerance (μm) | L ±0.3 (mm) | I (mm) | D1 (mm) | K (mm) | H (mm)      | PCD (mm)    | d1xd2xh (mm)      | C N  |              |            | Co N |
| 6                           | LMFP6UU  | 4                             | 6            | 0<br>-9 | 12             | 0<br>-13 | 19             | 5           | 28     | 22      | 5      | 20          | 3.5x6x3.1   | 206               | 265  | 12           | 24         |      |
| 6                           | LMKP6UU  |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 8                           | LMFP8UU  | 4                             | 8            |         | 15             | 0<br>-13 | 24             | 5           | 32     | 25      | 5      | 24          | 3.5x6x3.1   | 274               | 392  |              |            | 37   |
| 8                           | LMKP8UU  |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 10                          | LMFP10UU | 4                             | 10           |         | 19             | 0<br>-9  | 29             | 6           | 40     | 30      | 6      | 29          | 4.5x7.5x4.1 | 372               | 549  |              |            | 72   |
| 10                          | LMKP10UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 12                          | LMFP12UU | 4                             | 12           | 21      | 0<br>-16       | 30       | 6              | 42          | 32     | 6       | 32     | 4.5x7.5x4.1 | 510         | 784               | 76   |              |            |      |
| 12                          | LMKP12UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 13                          | LMFP13UU | 4                             | 13           | 23      | 0<br>-16       | 32       | 6              | 43          | 34     | 6       | 33     | 4.5x7.5x4.1 | 510         | 784               | 88   |              |            |      |
| 13                          | LMKP13UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 16                          | LMFP16UU | 5                             | 16           | 28      | 0<br>-16       | 37       | 6              | 48          | 37     | 6       | 38     | 4.5x7.5x4.1 | 774         | 1180              | 120  |              |            |      |
| 16                          | LMKP16UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 20                          | LMFP20UU | 5                             | 20           | 32      | 0<br>-19       | 42       | 8              | 54          | 42     | 8       | 43     | 5.5x9x5.1   | 882         | 1370              | 180  |              |            |      |
| 20                          | LMKP20UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 25                          | LMFP25UU | 6                             | 25           | 40      | 0<br>-10       | 59       | 8              | 62          | 50     | 8       | 51     | 5.5x9x5.1   | 980         | 1570              | 15   | 340          |            |      |
| 25                          | LMKP25UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 30                          | LMFP30UU | 6                             | 30           | 45      | 0<br>-19       | 64       | 10             | 74          | 58     | 10      | 60     | 6.6x11x6.1  | 1570        | 2740              | 470  |              |            |      |
| 30                          | LMKP30UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 35                          | LMFP35UU | 6                             | 35           | 52      | 0<br>-22       | 70       | 10             | 82          | 64     | 10      | 67     | 6.6x11x6.1  | 1670        | 3140              | 650  |              |            |      |
| 35                          | LMKP35UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 40                          | LMFP40UU | 6                             | 40           | 60      | 0<br>-22       | 80       | 13             | 96          | 75     | 13      | 78     | 9x14x8.1    | 2160        | 4020              | 20   | 1060         |            |      |
| 40                          | LMKP40UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 50                          | LMFP50UU | 6                             | 50           | 80      | 0<br>-12       | 100      | 13             | 116         | 92     | 18      | 98     | 9x14x8.1    | 3820        | 7940              | 2200 |              |            |      |
| 50                          | LMKP50UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |
| 60                          | LMFP60UU | 6                             | 60           | 90      | 0<br>-15       | 110      | 18             | 134         | 106    | 18      | 112    | 11x17x11.1  | 4700        | 10000             | 25   | 3000         |            |      |
| 60                          | LMKP60UU |                               |              |         |                |          |                |             |        |         |        |             |             |                   |      |              |            |      |

Series **LMHP**



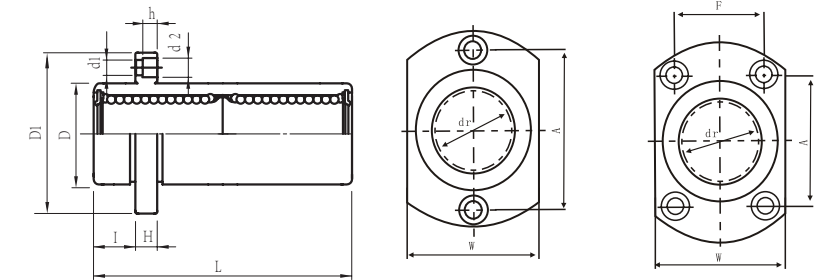
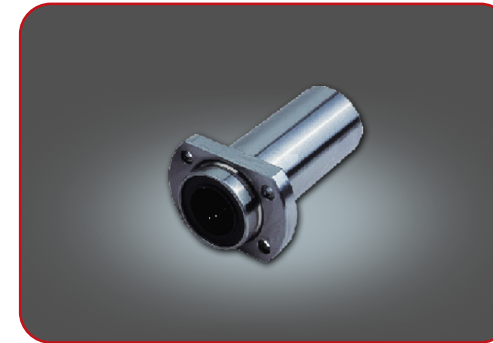
| Nominal shaft diameter (mm) | Part No. | Main dimensions and tolerance |              |         |                |          |                |             |        |         |        |        |            |             |              |      | Basic load rating |    | Eccentricity | Weight (g) |
|-----------------------------|----------|-------------------------------|--------------|---------|----------------|----------|----------------|-------------|--------|---------|--------|--------|------------|-------------|--------------|------|-------------------|----|--------------|------------|
|                             |          | Seal Type                     | Ball Circuit | dr (mm) | Tolerance (μm) | D (mm)   | Tolerance (μm) | L ±0.3 (mm) | I (mm) | D1 (mm) | W (mm) | H (mm) | A (mm)     | F (mm)      | d1xd2xh (mm) | C N  | Co N              |    |              |            |
| 6                           | LMHP6UU  | 4                             | 6            | 0<br>-9 | 12             | 0<br>-13 | 19             | 5           | 28     | 18      | 5      | 20     | -          | 3.5x6x3.1   | 206          | 265  | 12                | 21 |              |            |
| 8                           | LMHP8UU  |                               |              |         |                |          |                |             |        |         |        |        |            |             |              |      |                   |    | 4            | 8          |
| 10                          | LMHP10UU | 4                             | 10           |         | 19             | 0<br>-9  | 29             | 6           | 40     | 25      | 6      | 29     | -          | 4.5x7.5x4.1 | 372          | 549  |                   |    |              |            |
| 12                          | LMHP12UU |                               |              |         |                |          |                |             |        |         |        |        |            |             |              |      |                   |    | 4            | 12         |
| 13                          | LMHP13UU | 4                             | 13           |         | 23             | 0<br>-16 | 32             | 6           | 43     | 29      | 6      | 33     | -          | 4.5x7.5x4.1 | 510          | 784  |                   |    |              |            |
| 16                          | LMHP16UU |                               |              |         |                |          |                |             |        |         |        |        |            |             |              |      |                   |    | 5            | 16         |
| 20                          | LMHP20UU | 5                             | 20           | 32      | 0<br>-19       | 42       | 8              | 54          | 38     | 8       | 36     | 24     | 5.5x9x5.1  | 882         | 1370         | 167  |                   |    |              |            |
| 25                          | LMHP25UU |                               |              |         |                |          |                |             |        |         |        |        |            |             |              |      | 6                 | 25 | 40           | 0<br>-10   |
| 30                          | LMHP30UU | 6                             | 30           | 45      | 0<br>-19       | 64       | 10             | 74          | 51     | 10      | 49     | 35     | 6.6x11x6.1 | 1570        | 2740         | 1570 |                   |    |              |            |

Series **LMFP/KP-L**



| Nominal shaft diameter (mm) | Part No.  |              | Main dimensions and tolerance |                |          |                |             |        |         |        |        |              |              | Basic load rating |      | Eccentricity | Weight (g) |
|-----------------------------|-----------|--------------|-------------------------------|----------------|----------|----------------|-------------|--------|---------|--------|--------|--------------|--------------|-------------------|------|--------------|------------|
|                             | Seal Type | Ball Circuit | dr (mm)                       | Tolerance (μm) | D (mm)   | Tolerance (μm) | L ±0.3 (mm) | I (mm) | D1 (mm) | K (mm) | H (mm) | PCD (mm)     | d1xd2xh (mm) | C N               | Co N |              |            |
| 6                           | LMFP6LUU  | 4            | 6                             | 0<br>-10       | 12       | 0<br>-13       | 35          | 5      | 28      | 22     | 5      | 20           | 3.5x6x3.1    | 323               | 529  | 15           | 31         |
| 6                           | LMKP6LUU  |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 8                           | LMFP8LUU  | 4            | 8                             |                | 15       | 0<br>-16       | 45          | 5      | 32      | 25     | 5      | 24           | 3.5x6x3.1    | 431               | 784  |              | 51         |
| 8                           | LMKP8LUU  |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 10                          | LMFP10LUU | 4            | 10                            |                | 19       | 0<br>-16       | 55          | 6      | 40      | 30     | 6      | 29           | 4.5x7.5x4.1  | 588               | 1100 |              | 98         |
| 10                          | LMKP10LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 12                          | LMFP12LUU | 4            | 12                            | 21             | 0<br>-16 | 57             | 6           | 42     | 32      | 6      | 32     | 4.5x7.5x4.1  | 813          | 1570              | 110  |              |            |
| 12                          | LMKP12LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 13                          | LMFP13LUU | 4            | 13                            | 23             | 0<br>-16 | 61             | 6           | 43     | 34      | 6      | 33     | 4.5x7.5x4.1  | 813          | 1570              | 130  |              |            |
| 13                          | LMKP13LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 16                          | LMFP16LUU | 5            | 16                            | 28             | 0<br>-19 | 70             | 6           | 48     | 37      | 6      | 38     | 4.5x7.5x4.1  | 1230         | 2350              | 190  |              |            |
| 16                          | LMKP16LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 20                          | LMFP20LUU | 5            | 20                            | 32             | 0<br>-19 | 80             | 8           | 54     | 42      | 8      | 43     | 5.5x9x5.1    | 1400         | 2740              | 260  |              |            |
| 20                          | LMKP20LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 25                          | LMFP25LUU | 6            | 25                            | 40             | 0<br>-12 | 112            | 8           | 62     | 50      | 8      | 51     | 5.5x9x5.1    | 1560         | 3140              | 20   |              | 540        |
| 25                          | LMKP25LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 30                          | LMFP30LUU | 6            | 30                            | 45             | 0<br>-15 | 123            | 10          | 74     | 58      | 10     | 60     | 6.6x11x6.1   | 2490         | 5490              | 680  |              |            |
| 30                          | LMKP30LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 35                          | LMFP35LUU | 6            | 35                            | 52             | 0<br>-15 | 135            | 10          | 82     | 64      | 10     | 67     | 6.6x11x6.1   | 2650         | 6270              | 25   | 1020         |            |
| 35                          | LMKP35LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 40                          | LMFP40LUU | 6            | 40                            | 60             | 0<br>-15 | 151            | 13          | 96     | 75      | 13     | 78     | 9x14x8.1     | 3430         | 8040              | 1570 |              |            |
| 40                          | LMKP40LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 50                          | LMFP50LUU | 6            | 50                            | 80             | 0<br>-20 | 192            | 13          | 116    | 92      | 18     | 98     | 9x14x8.1     | 6080         | 15900             | 3600 |              |            |
| 50                          | LMKP50LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |
| 60                          | LMFP60LUU | 6            | 60                            | 90             | 0<br>-20 | 209            | 18          | 134    | 106     | 18     | 112    | 11x17.5x10.8 | 7550         | 20000             | 4500 |              |            |
| 60                          | LMKP60LUU |              |                               |                |          |                |             |        |         |        |        |              |              |                   |      |              |            |

Series **LMHP-L**



LMHP6L~LMHP13L

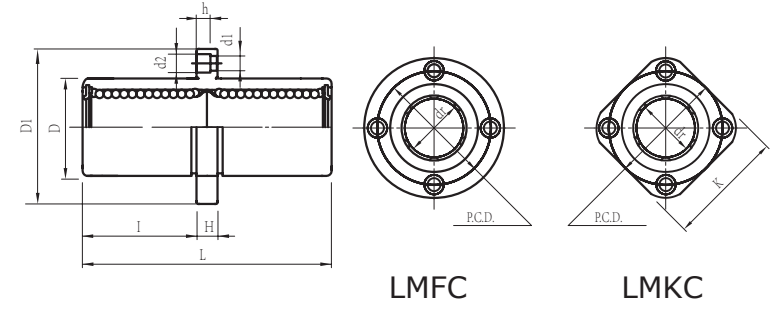
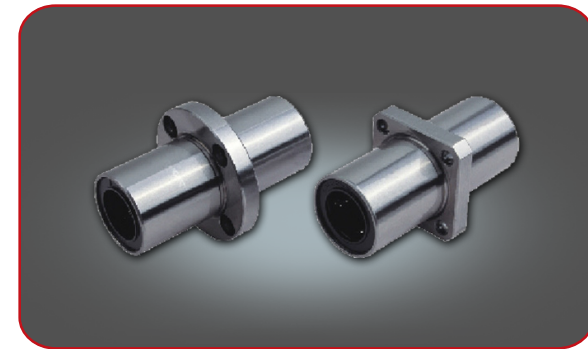
LMHP16L~LMHP30L

| Nominal shaft diameter (mm) | Part No.  |              | Main dimensions and tolerance |                |          |                |             |        |         |        |        |        |            | Basic load rating |      | Eccentricity | Weight (g) |      |
|-----------------------------|-----------|--------------|-------------------------------|----------------|----------|----------------|-------------|--------|---------|--------|--------|--------|------------|-------------------|------|--------------|------------|------|
|                             | Seal Type | Ball Circuit | dr (mm)                       | Tolerance (μm) | D (mm)   | Tolerance (μm) | L ±0.3 (mm) | I (mm) | D1 (mm) | W (mm) | H (mm) | A (mm) | F (mm)     | d1xd2xh (mm)      | C N  |              |            | Co N |
| 6                           | LMHP6LUU  | 4            | 6                             | 0<br>-10       | 12       | 0<br>-13       | 35          | 5      | 28      | 18     | 5      | 20     | -          | 3.5x6x3.1         | 323  | 529          | 15         | 28   |
| 8                           | LMHP8LUU  |              |                               |                |          |                |             |        |         |        |        |        |            |                   |      |              |            |      |
| 10                          | LMHP10LUU | 4            | 10                            |                | 19       | 0<br>-16       | 55          | 6      | 40      | 25     | 6      | 29     | -          | 4.5x7.5x4.1       | 588  | 1100         |            | 90   |
| 12                          | LMHP12LUU |              |                               |                |          |                |             |        |         |        |        |        |            |                   |      |              |            |      |
| 13                          | LMHP13LUU | 4            | 13                            |                | 23       | 0<br>-16       | 61          | 6      | 43      | 29     | 6      | 33     | -          | 4.5x7.5x4.1       | 813  | 1570         |            | 123  |
| 16                          | LMHP16LUU |              |                               |                |          |                |             |        |         |        |        |        |            |                   |      |              |            |      |
| 20                          | LMHP20LUU | 5            | 20                            | 32             | 0<br>-12 | 80             | 8           | 54     | 38      | 8      | 36     | 24     | 5.5x9x5.1  | 1400              | 2470 | 247          |            |      |
| 25                          | LMHP25LUU |              |                               |                |          |                |             |        |         |        |        |        |            |                   |      |              |            | 6    |
| 30                          | LMHP30LUU | 6            | 30                            | 45             | 0<br>-12 | 123            | 10          | 74     | 51      | 10     | 49     | 35     | 6.6x11x6.1 | 2490              | 5490 | 645          |            |      |



Linear Bush Series  
LMF/KC Series

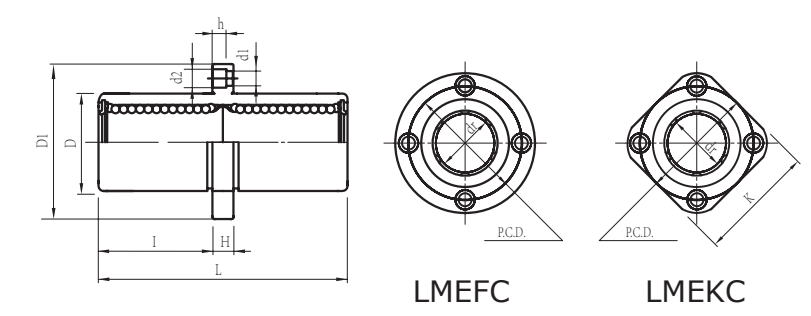
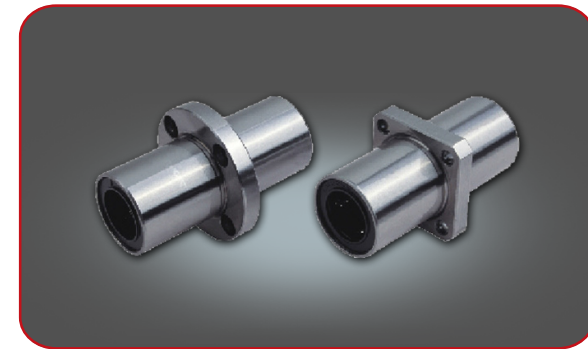
Series **LMF/KC**



| Nominal shaft diameter (mm) | Part No. | Main dimensions and tolerance |              |         |                |        |                |             |        |         |        |        | Basic load rating |              | Eccentricity | Weight (g) |      |
|-----------------------------|----------|-------------------------------|--------------|---------|----------------|--------|----------------|-------------|--------|---------|--------|--------|-------------------|--------------|--------------|------------|------|
|                             |          | Seal Type                     | Ball Circuit | dr (mm) | Tolerance (μm) | D (mm) | Tolerance (μm) | L ±0.3 (mm) | I (mm) | D1 (mm) | K (mm) | H (mm) | PCD (mm)          | d1xd2xh (mm) |              |            | C N  |
| 6                           | LMFC6UU  | 4                             | 6            | 0       | -13            | 12     | 35             | 15          | 28     | 22      | 5      | 20     | 3.5x6x3.1         | 323          | 529          | 15         | 31   |
| 6                           | LMKC6UU  | 4                             | 6            |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 8                           | LMFC8UU  | 4                             | 8            | 0       | -10            | 15     | 45             | 20          | 32     | 25      | 5      | 24     | 3.5x6x3.1         | 431          | 784          | 15         | 51   |
| 8                           | LMKC8UU  | 4                             | 8            |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 10                          | LMFC10UU | 4                             | 10           | 0       | -10            | 19     | 55             | 24.5        | 40     | 30      | 6      | 29     | 4.5x7.5x4.1       | 588          | 1100         | 15         | 98   |
| 10                          | LMKC10UU | 4                             | 10           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 12                          | LMFC12UU | 4                             | 12           | 0       | -16            | 21     | 57             | 25.5        | 42     | 32      | 6      | 32     | 4.5x7.5x4.1       | 813          | 1570         | 15         | 110  |
| 12                          | LMKC12UU | 4                             | 12           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 13                          | LMFC13UU | 4                             | 13           | 0       | -16            | 23     | 61             | 27.5        | 43     | 34      | 6      | 33     | 4.5x7.5x4.1       | 813          | 1570         | 15         | 130  |
| 13                          | LMKC13UU | 4                             | 13           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 16                          | LMFC16UU | 5                             | 16           | 0       | -19            | 28     | 70             | 32          | 48     | 37      | 6      | 38     | 4.5x7.5x4.1       | 1230         | 2350         | 15         | 190  |
| 16                          | LMKC16UU | 5                             | 16           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 20                          | LMFC20UU | 5                             | 20           | 0       | -12            | 32     | 80             | 36          | 54     | 42      | 8      | 43     | 5.5x9x5.1         | 1400         | 2740         | 20         | 260  |
| 20                          | LMKC20UU | 5                             | 20           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 25                          | LMFC25UU | 6                             | 25           | 0       | -19            | 40     | 112            | 52          | 62     | 50      | 8      | 51     | 5.5x9x5.1         | 1560         | 3140         | 20         | 540  |
| 25                          | LMKC25UU | 6                             | 25           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 30                          | LMFC30UU | 6                             | 30           | 0       | -15            | 45     | 123            | 56.5        | 74     | 58      | 10     | 60     | 6.6x11x6.1        | 2490         | 5490         | 20         | 680  |
| 30                          | LMKC30UU | 6                             | 30           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 35                          | LMFC35UU | 6                             | 35           | 0       | -22            | 52     | 135            | 62.5        | 82     | 64      | 10     | 67     | 6.6x11x6.1        | 2650         | 6270         | 25         | 1020 |
| 35                          | LMKC35UU | 6                             | 35           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 40                          | LMFC40UU | 6                             | 40           | 0       | -15            | 60     | 151            | 69          | 96     | 75      | 13     | 78     | 9x14x8.1          | 3430         | 8040         | 25         | 1570 |
| 40                          | LMKC40UU | 6                             | 40           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 50                          | LMFC50UU | 6                             | 50           | 0       | -22            | 80     | 192            | 89.5        | 116    | 92      | 18     | 98     | 9x14x8.1          | 6080         | 15900        | 25         | 3600 |
| 50                          | LMKC50UU | 6                             | 50           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 60                          | LMFC60UU | 6                             | 60           | 0       | -20            | 90     | 209            | 95.5        | 134    | 106     | 18     | 112    | 11x17x11          | 7550         | 20000        | 30         | 4500 |
| 60                          | LMKC60UU | 6                             | 60           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |

Linear Bush Series  
LMEF/EKC Series

Series **LMEF/EKC**



| Nominal shaft diameter (mm) | Part No.  | Main dimensions and tolerance |              |         |                |        |                |             |        |         |        |        | Basic load rating |              | Eccentricity | Weight (g) |      |
|-----------------------------|-----------|-------------------------------|--------------|---------|----------------|--------|----------------|-------------|--------|---------|--------|--------|-------------------|--------------|--------------|------------|------|
|                             |           | Seal Type                     | Ball Circuit | dr (mm) | Tolerance (μm) | D (mm) | Tolerance (μm) | L ±0.3 (mm) | I (mm) | D1 (mm) | K (mm) | H (mm) | PCD (mm)          | d1xd2xh (mm) |              |            | C N  |
| 8                           | LMEFC8UU  | 4                             | 8            | +9      | -1             | 16     | 46             | 20.5        | 32     | 25      | 5      | 24     | 3.5x6x3.1         | 431          | 804          | 15         | 59   |
| 8                           | LMEKC8UU  | 4                             | 8            |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 12                          | LMEFC12UU | 4                             | 12           | +11     | -1             | 22     | 61             | 27.5        | 42     | 32      | 6      | 32     | 4.5x7.5x4.1       | 813          | 1570         | 15         | 110  |
| 12                          | LMEKC12UU | 4                             | 12           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 16                          | LMEFC16UU | 5                             | 16           | +11     | -1             | 26     | 68             | 31          | 46     | 35      | 6      | 36     | 4.5x7.5x4.1       | 921          | 1780         | 15         | 160  |
| 16                          | LMEKC16UU | 5                             | 16           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 20                          | LMEFC20UU | 5                             | 20           | 0       | -19            | 32     | 80             | 36          | 54     | 42      | 8      | 43     | 5.5x9x5.1         | 1370         | 2740         | 15         | 260  |
| 20                          | LMEKC20UU | 5                             | 20           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 25                          | LMEFC25UU | 6                             | 25           | +13     | -2             | 40     | 112            | 52          | 62     | 50      | 8      | 51     | 5.5x9x5.1         | 1570         | 3140         | 17         | 540  |
| 25                          | LMEKC25UU | 6                             | 25           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 30                          | LMEFC30UU | 6                             | 30           | +13     | -2             | 47     | 123            | 56.5        | 76     | 60      | 10     | 62     | 6.6x11x6.1        | 2500         | 5490         | 15         | 815  |
| 30                          | LMEKC30UU | 6                             | 30           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 40                          | LMEFC40UU | 6                             | 40           | 0       | -22            | 62     | 151            | 69          | 96     | 75      | 13     | 80     | 9x14x8.1          | 3430         | 8040         | 20         | 1805 |
| 40                          | LMEKC40UU | 6                             | 40           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 50                          | LMEFC50UU | 6                             | 50           | +16     | -4             | 75     | 192            | 89.5        | 112    | 88      | 13     | 94     | 9x14x8.1          | 6080         | 15900        | 25         | 2820 |
| 50                          | LMEKC50UU | 6                             | 50           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |
| 60                          | LMEFC60UU | 6                             | 60           | 0       | -25            | 90     | 209            | 95.5        | 134    | 106     | 18     | 112    | 11x17x11.1        | 7550         | 20000        | 25         | 4920 |
| 60                          | LMEKC60UU | 6                             | 60           |         |                |        |                |             |        |         |        |        |                   |              |              |            |      |

Slide Unit Series

Shaft Support Series

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ballscrew Support Unit

Cross Roller Guide

Slide Unit Series

Shaft Support Series

Linear Guide

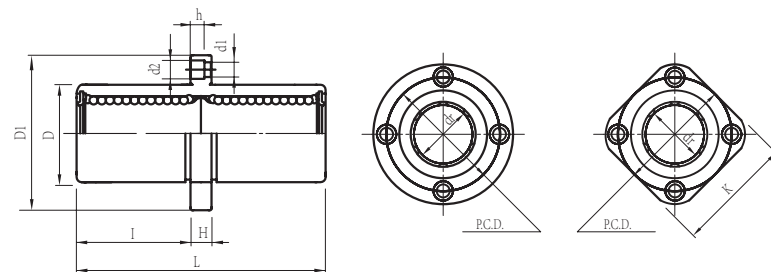
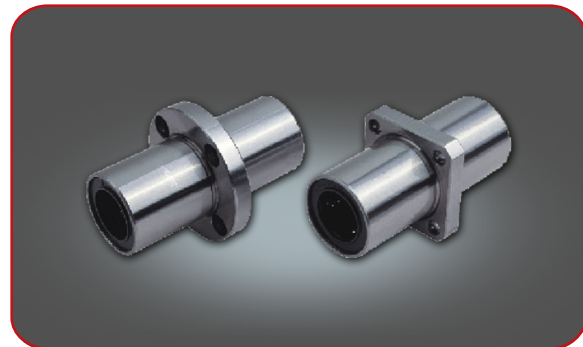
Rectangle Wheel Linear Rail

Ball Screw

Ballscrew Support Unit

Cross Roller Guide

Series **LMBF/BKC**

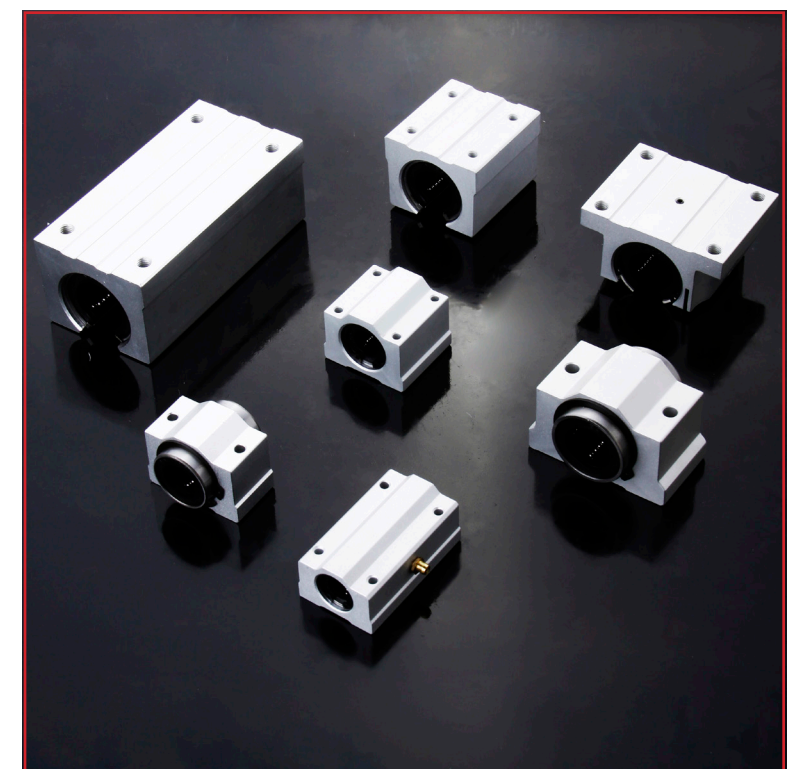


LMBFC

LMBKC

| Nominal shaft diameter (mm) | Part No.   | Main dimensions and tolerance |                 |                   |        |                    |                   |                   |                   |                  |                   |  | Basic load rating |       | Eccentricity | Weight (g) |
|-----------------------------|------------|-------------------------------|-----------------|-------------------|--------|--------------------|-------------------|-------------------|-------------------|------------------|-------------------|--|-------------------|-------|--------------|------------|
|                             |            | Seal Type                     | Ball Circuit    | dr (mm)           | D (mm) | L (mm)             | I (mm)            | D1 (mm)           | K (mm)            | H (mm)           | PCD (mm)          | d1xd2xh (mm)                                 | C N               | Co N  |              |            |
| 04                          | LMBFC04LUU | 3                             | 1/4"<br>6.35    | 0.5"<br>12.7      | 0      | 1.375"<br>34.925   | 0.5781"<br>14.684 | 1.25"<br>31.75    | 1"<br>25.4        | 0.219"<br>5.556  | 0.875"<br>22.225  | 0.156"x0.25"x0.141"<br>3.969x6.35x3.572      | 323               | 530   | 15           | 40         |
| 04                          | LMBKC04LUU |                               |                 |                   |        |                    |                   |                   |                   |                  |                   |  |                   |       |              |            |
| 06                          | LMBFC06LUU | 4                             | 3/8"<br>9.525   | 0.625"<br>15.875  | 0      | 1.5938"<br>40.481  | 0.6719"<br>17.066 | 1.5"<br>38.1      | 1.25"<br>31.75    | 0.25"<br>6.35    | 1.062"<br>26.988  | 0.1875"x0.297"x0.172"<br>4.763x7.541x4.366   | 353               | 630   | 15           | 60         |
| 06                          | LMBKC06LUU |                               |                 |                   |        |                    |                   |                   |                   |                  |                   |  |                   |       |              |            |
| 08                          | LMBFC08LUU | 4                             | 1/2"<br>12.7    | 0.875"<br>22.225  | 0      | 2.375"<br>60.325   | 1.0625"<br>26.988 | 1.75"<br>44.45    | 1.375"<br>34.925  | 0.25"<br>6.35    | 1.312"<br>33.338  | 0.1875"x0.297"x0.172"<br>4.763x7.541x4.366   | 813               | 1570  | 15           | 126        |
| 08                          | LMBKC08LUU |                               |                 |                   |        |                    |                   |                   |                   |                  |                   |  |                   |       |              |            |
| 10                          | LMBFC10LUU | 4                             | 5/8"<br>15.875  | 1.125"<br>28.575  | 0      | 2.8125"<br>71.438  | 1.2813"<br>32.544 | 2"<br>50.8        | 1.5"<br>38.1      | 0.25"<br>6.35    | 1.562"<br>39.688  | 0.1875"x0.297"x0.172"<br>4.763x7.541x4.366   | 1230              | 2350  | 15           | 215        |
| 10                          | LMBKC10LUU |                               |                 |                   |        |                    |                   |                   |                   |                  |                   |  |                   |       |              |            |
| 12                          | LMBFC12LUU | 4                             | 3/4"<br>19.05   | 1.25"<br>31.75    | 0      | 3.0937"<br>78.581  | 1.3906"<br>35.322 | 2.1875"<br>55.563 | 1.6875"<br>42.863 | 0.3125"<br>7.938 | 1.718"<br>43.656  | 0.2187"x0.344"x0.203"<br>5.556x8.731x5.159   | 1370              | 2740  | 20           | 280        |
| 12                          | LMBKC12LUU |                               |                 |                   |        |                    |                   |                   |                   |                  |                   |  |                   |       |              |            |
| 16                          | LMBFC16LUU | 5                             | 1"<br>25.4      | 1.5625"<br>39.688 | 0      | 4.2813"<br>108.744 | 1.9844"<br>50.403 | 2.5"<br>63.5      | 2"<br>50.8        | 0.3125"<br>7.938 | 2.031"<br>51.594  | 0.2187"x0.344"x0.203"<br>5.556x8.731x5.159   | 1570              | 3140  | 20           | 515        |
| 16                          | LMBKC16LUU |                               |                 |                   |        |                    |                   |                   |                   |                  |                   |  |                   |       |              |            |
| 20                          | LMBFC20LUU | 5                             | 1-1/4"<br>31.75 | 2"<br>50.8        | 0      | 5"<br>127.00       | 2.3125"<br>58.738 | 3.125"<br>79.375  | 2.5"<br>63.5      | 0.375"<br>9.525  | 2.5625"<br>65.088 | 0.2187"x0.406"x0.2656"<br>7.144x10.319x6.747 | 2500              | 5490  | 25           | 1020       |
| 20                          | LMBKC20LUU |                               |                 |                   |        |                    |                   |                   |                   |                  |                   |  |                   |       |              |            |
| 24                          | LMBFC24LUU | 6                             | 1-1/2"<br>38.1  | 2.375"<br>60.325  | 0      | 5.6875"<br>144.463 | 2.5938"<br>65.882 | 3.75"<br>95.25    | 3"<br>76.2        | 0.5"<br>12.7     | 3.0625"<br>77.788 | 0.344"x0.5"x0.328"<br>8.731x12.7x8.334       | 3430              | 8040  | 25           | 1630       |
| 24                          | LMBKC24LUU |                               |                 |                   |        |                    |                   |                   |                   |                  |                   |  |                   |       |              |            |
| 32                          | LMBFC32LUU | 6                             | 2"<br>50.8      | 3"<br>76.2        | 0      | 7.75"<br>196.85    | 3.625"<br>92.075  | 4.375"<br>111.125 | 3.5"<br>88.9      | 0.5"<br>12.7     | 3.6875"<br>93.662 | 0.344"x0.5"x0.328"<br>8.731x12.7x8.334       | 6080              | 15900 | 30           | 2800       |
| 32                          | LMBKC32LUU |                               |                 |                   |        |                    |                   |                   |                   |                  |                   |  |                   |       |              |            |

02 **Slide Unit Series**



Linear Bush Series  
LMBF/BKC Series  
Side Unit Series  
Shaft Support Serie  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide

Linear Bush Series  
Side Unit Series  
Shaft Support Serie  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide

Linear Bush Series

Slide Unit Series

Shaft Support Series

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ball Screw Support Unit

Cross Roller Guide

Linear Bush Series

Slide Unit Series

Shaft Support Series

Linear Guide

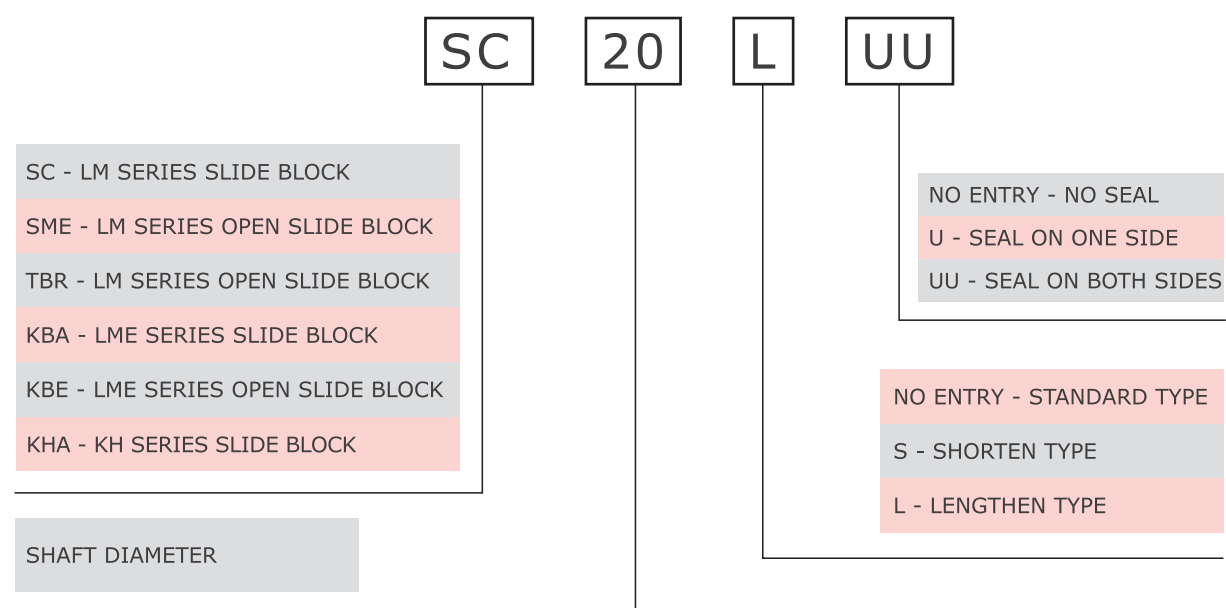
Rectangle Wheel Linear Rail

Ball Screw

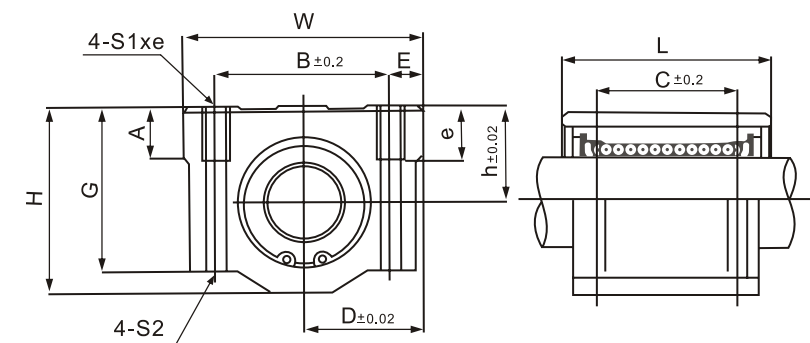
Ball Screw Support Unit

Cross Roller Guide

## Type number format

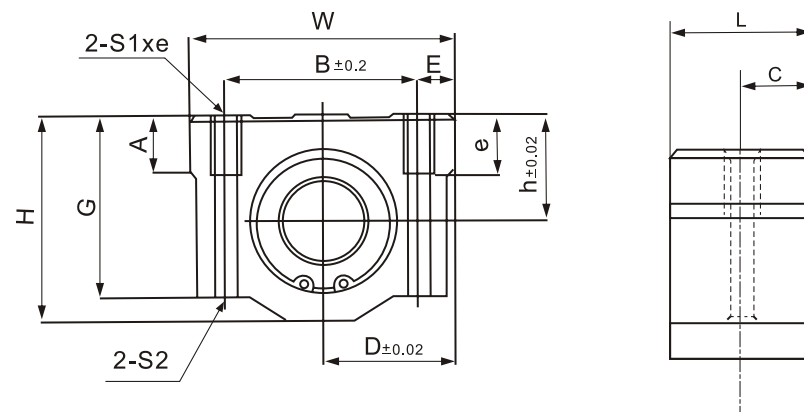


## Slide Unit **SC** Type



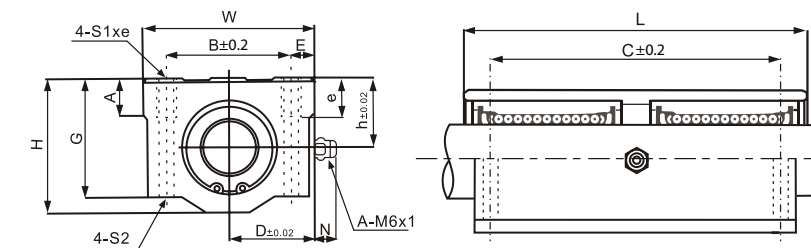
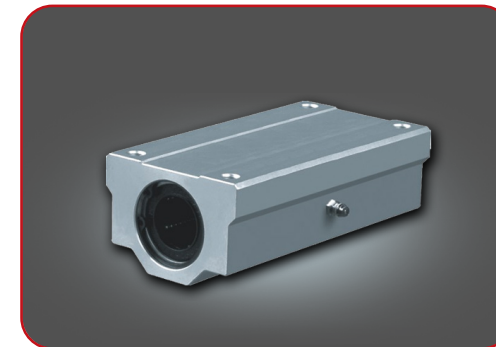
| Part No. | Main dimensions (mm) |    |     |      |      |    |      |      |        |     |    |     | Basic load rating |                 | Weight (g) |
|----------|----------------------|----|-----|------|------|----|------|------|--------|-----|----|-----|-------------------|-----------------|------------|
|          | h                    | D  | W   | H    | G    | A  | B    | E    | S1xe   | S2  | C  | L   | C <sub>N</sub>    | Co <sub>N</sub> |            |
| SC8UU    | 11                   | 17 | 34  | 22   | 18   | 6  | 24   | 5    | M4X8   | 3.4 | 18 | 30  | 274               | 392             | 52         |
| SC10UU   | 13                   | 20 | 40  | 26   | 21   | 8  | 28   | 6    | M5X12  | 4.3 | 21 | 35  | 372               | 549             | 92         |
| SC12UU   | 15                   | 21 | 42  | 28   | 24   | 8  | 30.5 | 5.75 | M5X12  | 4.3 | 26 | 36  | 510               | 784             | 102        |
| SC13UU   | 15                   | 22 | 44  | 30   | 24.5 | 8  | 33   | 5.5  | M5X12  | 4.3 | 26 | 39  | 510               | 784             | 120        |
| SC16UU   | 19                   | 25 | 50  | 38.5 | 32.5 | 9  | 36   | 7    | M5X12  | 4.3 | 34 | 44  | 774               | 1180            | 200        |
| SC20UU   | 21                   | 27 | 54  | 41   | 35   | 11 | 40   | 7    | M6X12  | 5.2 | 40 | 50  | 882               | 1370            | 255        |
| SC25UU   | 26                   | 38 | 76  | 51.5 | 42   | 12 | 54   | 11   | M8X18  | 7   | 50 | 67  | 980               | 1570            | 600        |
| SC30UU   | 30                   | 39 | 78  | 59.5 | 49   | 15 | 58   | 10   | M8X18  | 7   | 58 | 72  | 1574              | 2740            | 735        |
| SC35UU   | 34                   | 45 | 90  | 68   | 54   | 18 | 70   | 10   | M8X18  | 7   | 60 | 80  | 1670              | 3140            | 1100       |
| SC40UU   | 40                   | 51 | 102 | 78   | 62   | 20 | 80   | 11   | M10X25 | 8.7 | 60 | 90  | 2160              | 4020            | 1590       |
| SC50UU   | 52                   | 61 | 122 | 102  | 80   | 25 | 100  | 11   | M10X25 | 8.7 | 80 | 110 | 3820              | 7940            | 3340       |

Slide Unit **SC-S** Type



| Part No. | Main dimensions (mm) |    |     |      |      |    |      |      |        |     |       |      | Basic load rating |      | Weight (g) |
|----------|----------------------|----|-----|------|------|----|------|------|--------|-----|-------|------|-------------------|------|------------|
|          | h                    | D  | W   | H    | G    | A  | B    | E    | S1xe   | S2  | C     | L    | C N               | Co N |            |
| SC8SUU   | 11                   | 17 | 34  | 22   | 18   | 6  | 24   | 5    | M4X8   | 3.4 | 7.7   | 15.4 | 274               | 392  | 27         |
| SC10SUU  | 13                   | 20 | 40  | 26   | 21   | 8  | 28   | 6    | M5X12  | 4.3 | 9.95  | 19.9 | 372               | 549  | 53         |
| SC12SUU  | 15                   | 21 | 42  | 28   | 24   | 8  | 30.5 | 5.75 | M5X12  | 4.3 | 10.45 | 20.9 | 510               | 784  | 60         |
| SC13SUU  | 15                   | 22 | 44  | 30   | 24.5 | 8  | 33   | 5.5  | M5X12  | 4.3 | 10.45 | 20.9 | 510               | 784  | 64         |
| SC16SUU  | 19                   | 25 | 50  | 38.5 | 32.5 | 9  | 36   | 7    | M5X12  | 4.3 | 12    | 24   | 774               | 1180 | 110        |
| SC20SUU  | 21                   | 27 | 54  | 41   | 35   | 11 | 40   | 7    | M6X12  | 5.2 | 14    | 28   | 882               | 1370 | 144        |
| SC25SUU  | 26                   | 38 | 76  | 51.5 | 42   | 12 | 54   | 11   | M8X18  | 7   | 18.9  | 37.8 | 980               | 1570 | 340        |
| SC30SUU  | 30                   | 39 | 78  | 59.5 | 49   | 15 | 58   | 10   | M8X18  | 7   | 20.65 | 41.3 | 1574              | 2740 | 424        |
| SC35SUU  | 34                   | 45 | 90  | 68   | 54   | 18 | 70   | 10   | M8X18  | 7   | 22.65 | 45.3 | 1670              | 3140 | 626        |
| SC40SUU  | 40                   | 51 | 102 | 78   | 62   | 20 | 80   | 11   | M10X25 | 8.7 | 28.15 | 56.3 | 2160              | 4020 | 1000       |
| SC50SUU  | 52                   | 61 | 122 | 102  | 80   | 25 | 100  | 11   | M10X25 | 8.7 | 34.4  | 68.8 | 3820              | 7940 | 2100       |

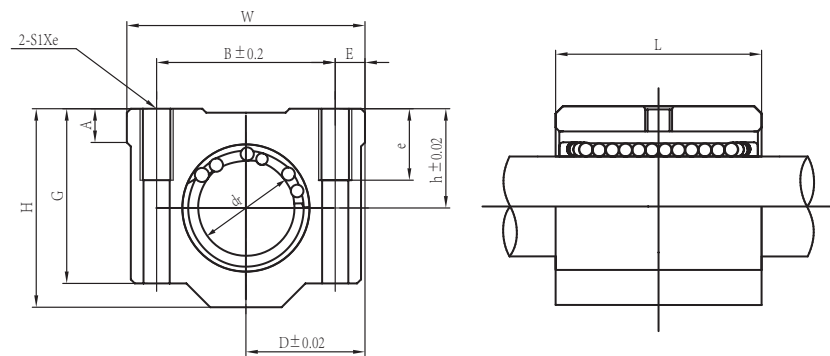
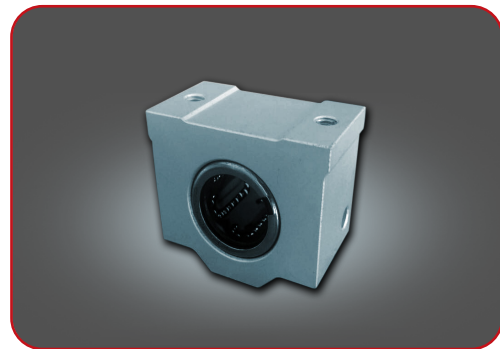
Slide Unit **SC-L** Type



| Part No. | Main dimensions (mm) |    |     |      |      |     |      |      |        |     |     |     | Basic load rating |       | Weight (g) |
|----------|----------------------|----|-----|------|------|-----|------|------|--------|-----|-----|-----|-------------------|-------|------------|
|          | h                    | D  | W   | H    | G    | A   | B    | E    | S1xe   | S2  | C   | L   | C N               | Co N  |            |
| SC8LUU   | 11                   | 17 | 34  | 22   | 18   | 7   | 24   | 5    | M4X8   | 3.4 | 42  | 58  | 431               | 784   | 102        |
| SC10LUU  | 13                   | 20 | 40  | 26   | 21   | 7   | 28   | 6    | M5X12  | 4.3 | 46  | 68  | 588               | 1100  | 180        |
| SC12LUU  | 15                   | 21 | 42  | 28   | 24   | 6.5 | 30.5 | 5.75 | M5X12  | 4.3 | 50  | 70  | 813               | 1570  | 250        |
| SC13LUU  | 15                   | 22 | 44  | 30   | 24.5 | 6.5 | 33   | 5.5  | M5X12  | 4.3 | 50  | 75  | 813               | 1570  | 240        |
| SC16LUU  | 19                   | 25 | 50  | 38.5 | 32.5 | 6   | 36   | 7    | M5X12  | 4.3 | 60  | 85  | 1230              | 2350  | 400        |
| SC20LUU  | 21                   | 27 | 54  | 41   | 35   | 7   | 40   | 7    | M6X12  | 5.2 | 70  | 96  | 1410              | 2740  | 570        |
| SC25LUU  | 26                   | 38 | 76  | 51.5 | 42   | 4   | 54   | 11   | M8X18  | 7   | 100 | 130 | 1610              | 3140  | 1200       |
| SC30LUU  | 30                   | 39 | 78  | 59.5 | 49   | 5   | 58   | 10   | M8X18  | 7   | 110 | 140 | 2450              | 5490  | 1480       |
| SC35LUU  | 34                   | 45 | 90  | 68   | 54   | 5.5 | 70   | 10   | M8X18  | 7   | 120 | 155 | 2650              | 6270  | 2200       |
| SC40LUU  | 40                   | 51 | 102 | 78   | 62   | 5   | 80   | 11   | M10X25 | 8.7 | 140 | 175 | 3430              | 8040  | 3200       |
| SC50LUU  | 52                   | 61 | 122 | 102  | 80   | 5   | 100  | 11   | M10X25 | 8.7 | 160 | 215 | 6080              | 15900 | 6700       |

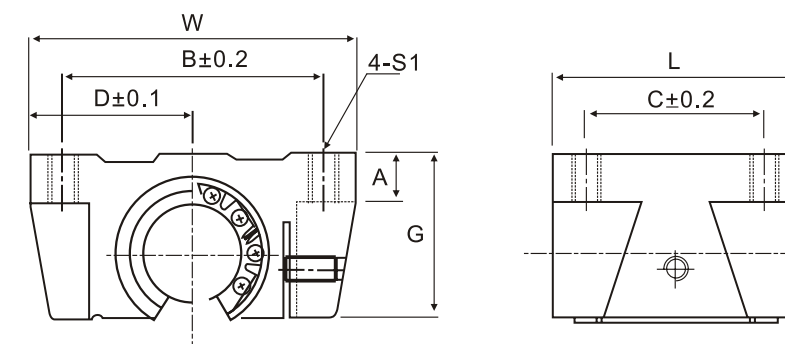
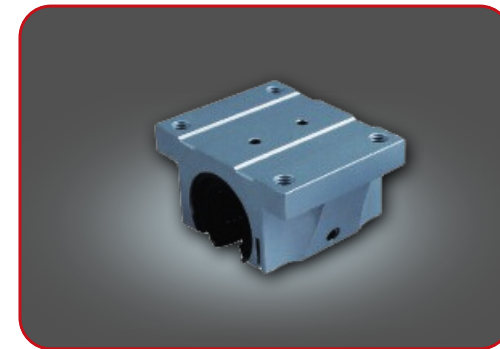


Slide Unit **KHA** Type



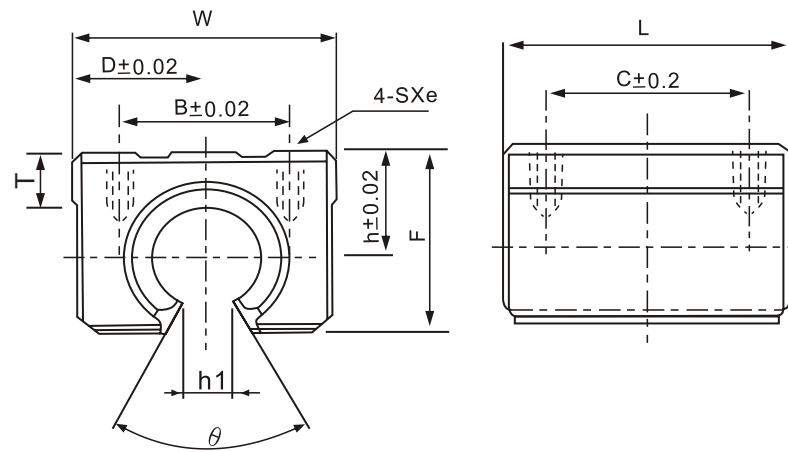
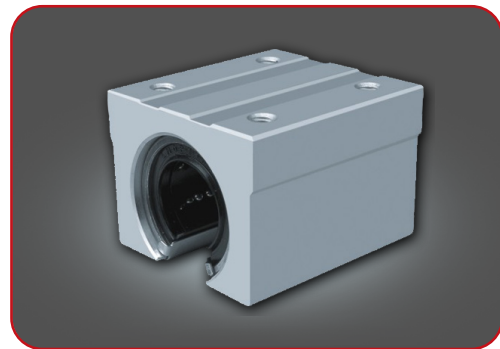
| Part No. | Main dimensions (mm) |      |    |    |    |     |    |    |        |     |    |
|----------|----------------------|------|----|----|----|-----|----|----|--------|-----|----|
|          | h                    | D    | W  | H  | G  | A   | B  | E  | S1xe   | S2  | L  |
| KHA16    | 19                   | 22.5 | 45 | 38 | 33 | 6   | 34 | 7  | M5X12  | 4.3 | 30 |
| KHA20    | 23                   | 26.5 | 53 | 45 | 39 | 6   | 40 | 7  | M6X12  | 5.3 | 30 |
| KHA25    | 27                   | 31   | 62 | 54 | 46 | 8.5 | 48 | 9  | M8X18  | 6.6 | 40 |
| KHA30    | 30                   | 33.5 | 67 | 60 | 52 | 8   | 53 | 10 | M8X18  | 6.6 | 50 |
| KHA40    | 39                   | 43.5 | 87 | 76 | 66 | 8   | 69 | 11 | M10X25 | 8.4 | 60 |

Slide Unit **TBR** Type



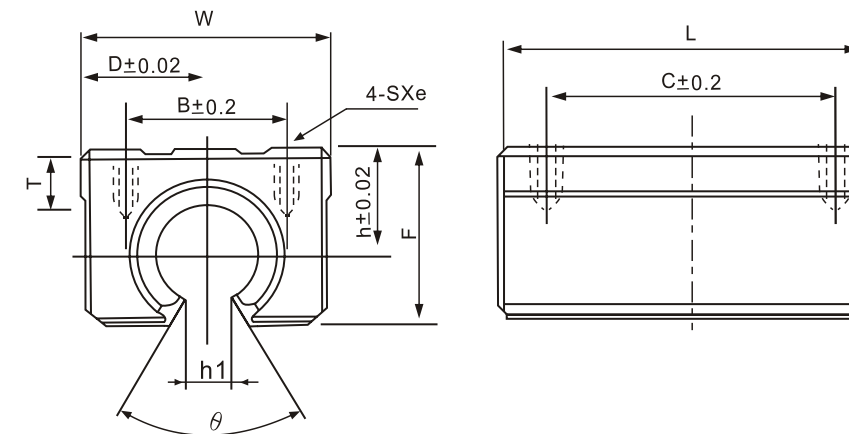
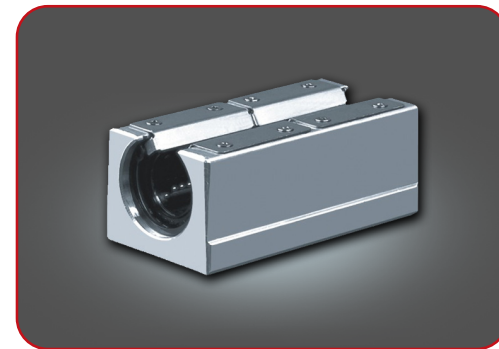
| Part No. | Main dimensions (mm) |    |    |    |    |      |    |    | Basic load rating |      | Weight (g) |
|----------|----------------------|----|----|----|----|------|----|----|-------------------|------|------------|
|          | W                    | G  | A  | L  | B  | D    | C  | S1 | C N               | Co N |            |
| TBR16UU  | 62                   | 26 | 8  | 42 | 50 | 31   | 30 | M5 | 392               | 490  | 180        |
| TBR20UU  | 68                   | 31 | 10 | 51 | 54 | 34   | 37 | M6 | 784               | 1176 | 300        |
| TBR25UU  | 82                   | 41 | 12 | 65 | 65 | 41   | 50 | M8 | 1568              | 2352 | 600        |
| TBR30UU  | 91                   | 48 | 12 | 75 | 75 | 45.5 | 60 | M8 | 1764              | 2940 | 900        |

Slide Unit **SME** Type



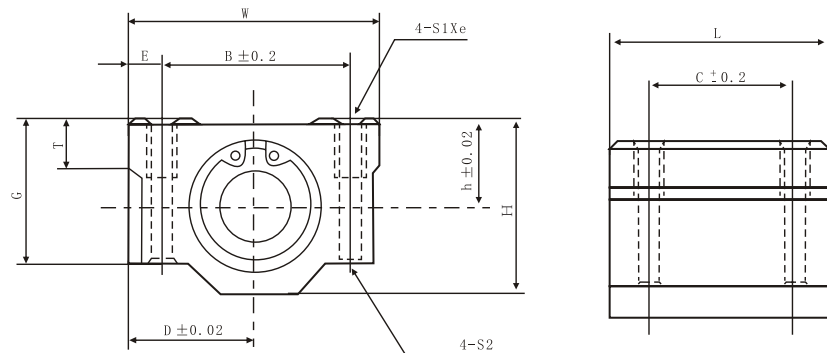
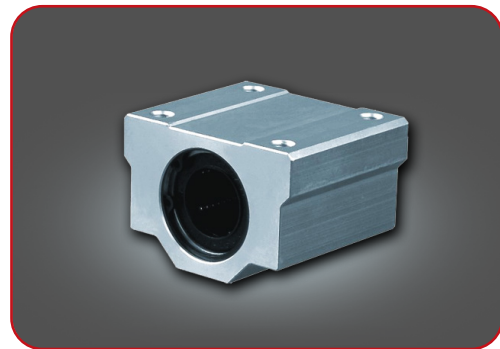
| Part No. | Main dimensions (mm) |      |     |     |    |    |      |     |    |    |        | Slide Bush | Basic load rating |      | Weight (g) |
|----------|----------------------|------|-----|-----|----|----|------|-----|----|----|--------|------------|-------------------|------|------------|
|          | h                    | D    | W   | L   | F  | T  | h1   | θ   | B  | C  | Sxe    |            | C N               | Co N |            |
| SME16UU  | 20                   | 22.5 | 45  | 45  | 33 | 9  | 10   | 80° | 32 | 30 | M5X12  | LM16UU-OP  | 774               | 1180 | 150        |
| SME20UU  | 23                   | 24   | 48  | 50  | 39 | 11 | 10   | 60° | 35 | 35 | M6X12  | LM20UU-OP  | 882               | 1370 | 200        |
| SME25UU  | 27                   | 30   | 60  | 65  | 47 | 14 | 11.5 | 50° | 40 | 40 | M6X12  | LM25UU-OP  | 980               | 1570 | 450        |
| SME30UU  | 33                   | 35   | 70  | 70  | 56 | 15 | 14   | 50° | 50 | 50 | M8X18  | LM30UU-OP  | 1570              | 2740 | 630        |
| SME35UU  | 37                   | 40   | 80  | 80  | 63 | 18 | 16   | 50° | 55 | 55 | M8X18  | LM35UU-OP  | 1670              | 3140 | 925        |
| SME40UU  | 42                   | 45   | 90  | 90  | 72 | 20 | 19   | 50° | 65 | 65 | M10X20 | LM40UU-OP  | 2160              | 4020 | 1330       |
| SME50UU  | 53                   | 60   | 120 | 110 | 92 | 25 | 23   | 50° | 94 | 80 | M10X20 | LM50UU-OP  | 3820              | 7940 | 3000       |

Slide Unit **SME-L** Type



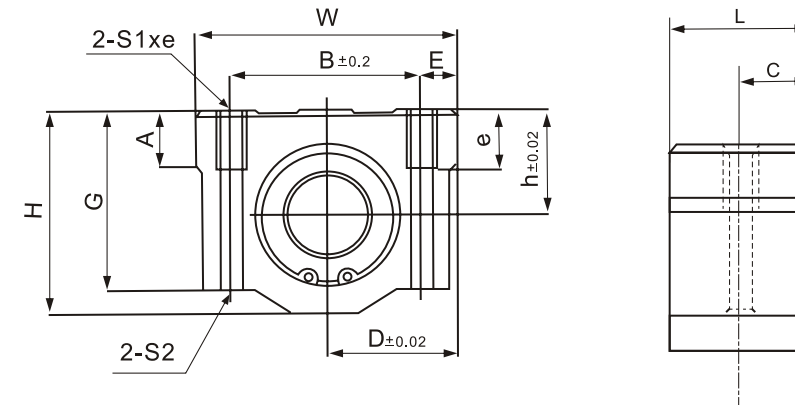
| Part No. | Main dimensions (mm) |      |    |     |    |    |      |     |    |     |       | Slide Bush  | Basic load rating |      | Weight (g) |
|----------|----------------------|------|----|-----|----|----|------|-----|----|-----|-------|-------------|-------------------|------|------------|
|          | h                    | D    | W  | L   | F  | T  | h1   | θ   | B  | C   | Sxe   |             | C N               | Co N |            |
| SME16LUU | 20                   | 22.5 | 45 | 85  | 33 | 9  | 10   | 80° | 32 | 60  | M5X12 | LM16UU-OPx2 | 1230              | 2350 | 300        |
| SME20LUU | 23                   | 24   | 48 | 95  | 39 | 11 | 10   | 60° | 35 | 70  | M6X12 | LM20UU-OPx2 | 1400              | 2740 | 400        |
| SME25LUU | 27                   | 30   | 60 | 130 | 47 | 14 | 11.5 | 50° | 40 | 90  | M6X12 | LM25UU-OPx2 | 1560              | 3140 | 900        |
| SME30LUU | 33                   | 35   | 70 | 140 | 56 | 15 | 14   | 50° | 50 | 100 | M8X18 | LM30UU-OPx2 | 2490              | 5490 | 1260       |

Slide Unit **KBA** Series



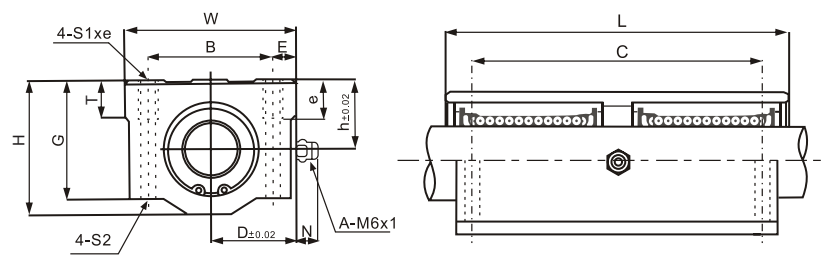
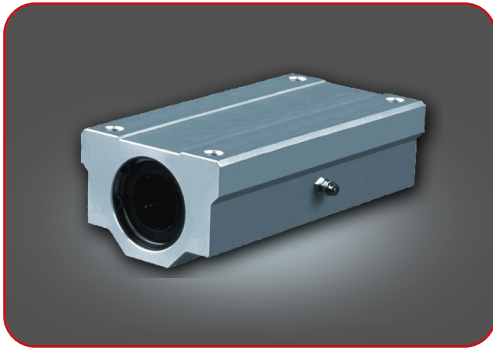
| Part No.  |                | Main dimensions (mm) |    |     |     |      |      |    |     |    |     |        | Weight (g) |      |
|-----------|----------------|----------------------|----|-----|-----|------|------|----|-----|----|-----|--------|------------|------|
| Seal Type | Shaft Diameter | h                    | D  | W   | L   | H    | G    | T  | B   | C  | E   | S1xe   |            | S2   |
| KBA10UU   | 10             | 13                   | 20 | 40  | 35  | 26   | 21   | 8  | 28  | 21 | 6   | M5X12  | 4.3        | 92   |
| KBA12UU   | 12             | 15                   | 22 | 44  | 39  | 30   | 24.5 | 8  | 33  | 26 | 5.5 | M5X12  | 4.3        | 120  |
| KBA16UU   | 16             | 19                   | 25 | 50  | 44  | 38.5 | 32.5 | 9  | 36  | 34 | 7   | M5X12  | 4.3        | 200  |
| KBA20UU   | 20             | 21                   | 27 | 54  | 53  | 41   | 35   | 11 | 40  | 40 | 7   | M6X12  | 5.2        | 270  |
| KBA25UU   | 25             | 26                   | 38 | 76  | 67  | 51.5 | 42   | 12 | 54  | 50 | 11  | M8X18  | 7          | 600  |
| KBA30UU   | 30             | 30                   | 39 | 78  | 76  | 59.5 | 49   | 15 | 58  | 58 | 10  | M8X18  | 7          | 776  |
| KBA40UU   | 40             | 40                   | 51 | 102 | 90  | 78   | 62   | 20 | 80  | 60 | 11  | M10X25 | 8.7        | 1590 |
| KBA50UU   | 50             | 52                   | 61 | 122 | 110 | 102  | 80   | 25 | 100 | 80 | 11  | M10X25 | 8.7        | 3340 |
| KBA60UU   | 60             | 58                   | 66 | 132 | 137 | 114  | 94   | 30 | 108 | 90 | 12  | M12X25 | 10.7       | 4800 |

Slide Unit **KBA-S** Type



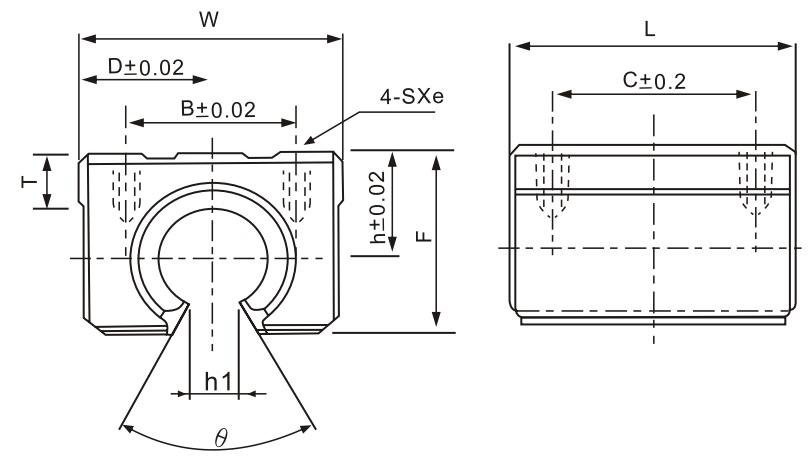
| Part No. | Main dimensions (mm) |    |     |      |      |    |     |     |        |     |       |      | Basic load rating |      | Weight (g) |
|----------|----------------------|----|-----|------|------|----|-----|-----|--------|-----|-------|------|-------------------|------|------------|
|          | h                    | D  | W   | H    | G    | A  | B   | E   | S1xe   | S2  | C     | L    | C N               | Co N |            |
| KBA8SUU  | 11                   | 17 | 34  | 22   | 18   | 6  | 24  | 5   | M4X8   | 3.4 | 7.2   | 14.4 | 274               | 392  | 25         |
| KBA12SUU | 15                   | 22 | 44  | 30   | 24.5 | 8  | 33  | 5.5 | M5X12  | 4.3 | 10.4  | 20.8 | 510               | 784  | 65         |
| KBA16SUU | 19                   | 25 | 50  | 38.5 | 32.5 | 9  | 36  | 7   | M5X12  | 4.3 | 11.2  | 22.4 | 774               | 1180 | 100        |
| KBA20SUU | 21                   | 27 | 54  | 41   | 35   | 11 | 40  | 7   | M6X12  | 5.2 | 14.5  | 29   | 882               | 1370 | 148        |
| KBA25SUU | 26                   | 38 | 76  | 51.5 | 42   | 12 | 54  | 11  | M8X18  | 7   | 20.45 | 40.9 | 980               | 1570 | 368        |
| KBA30SUU | 30                   | 39 | 78  | 59.5 | 49   | 15 | 58  | 10  | M8X18  | 7   | 24.45 | 48.9 | 1574              | 2740 | 500        |
| KBA40SUU | 40                   | 51 | 102 | 78   | 62   | 20 | 80  | 11  | M10X25 | 8.7 | 28.2  | 56.4 | 2160              | 4020 | 1000       |
| KBA50SUU | 52                   | 61 | 122 | 102  | 80   | 25 | 100 | 11  | M10X25 | 8.7 | 36.2  | 72.4 | 3820              | 7940 | 2205       |

Slide Unit **KBA-L** Series



| Part No.  |                | Main dimensions (mm) |    |     |     |      |      |    |     |     |     |        | Weight (g) |      |
|-----------|----------------|----------------------|----|-----|-----|------|------|----|-----|-----|-----|--------|------------|------|
| Seal Type | Shaft Diameter | h                    | D  | W   | L   | F    | G    | T  | B   | C   | E   | S1xe   |            | S2   |
| KBA10LUU  | 10             | 13                   | 20 | 40  | 68  | 26   | 21   | 8  | 28  | 46  | 6   | M5X12  | 4.3        | 180  |
| KBA12LUU  | 12             | 15                   | 22 | 44  | 77  | 30   | 24.5 | 8  | 33  | 64  | 5.5 | M5X12  | 4.3        | 237  |
| KBA16LUU  | 16             | 19                   | 25 | 50  | 89  | 38.5 | 32.5 | 9  | 36  | 79  | 7   | M5X12  | 4.3        | 405  |
| KBA20LUU  | 20             | 21                   | 27 | 54  | 100 | 41   | 35   | 11 | 40  | 90  | 7   | M6X12  | 5.2        | 510  |
| KBA25LUU  | 25             | 26                   | 38 | 76  | 136 | 51.5 | 42   | 12 | 54  | 119 | 11  | M8X18  | 7          | 1220 |
| KBA30LUU  | 30             | 30                   | 39 | 78  | 154 | 59.5 | 49   | 15 | 58  | 132 | 10  | M8X18  | 7          | 1580 |
| KBA40LUU  | 40             | 40                   | 51 | 102 | 180 | 78   | 62   | 20 | 80  | 150 | 11  | M10X25 | 8.7        | 3180 |
| KBA50LUU  | 50             | 52                   | 61 | 122 | 230 | 102  | 80   | 25 | 100 | 200 | 11  | M10X25 | 8.7        | 6990 |

Slide Unit **KBE** Series



| Part No.  |                | Main dimensions (mm) |      |     |     |    |    |      |     |    |    |        | Basic load rating |      | Weight (g) |
|-----------|----------------|----------------------|------|-----|-----|----|----|------|-----|----|----|--------|-------------------|------|------------|
| Seal Type | Shaft Diameter | h                    | D    | W   | L   | F  | T  | h1   | θ   | B  | C  | Sxe    | C N               | Co N |            |
| KBE16UU   | 16             | 20                   | 22.5 | 45  | 45  | 33 | 9  | 10   | 80° | 32 | 30 | M5X12  | 774               | 1180 | 150        |
| KBE20UU   | 20             | 23                   | 24   | 48  | 50  | 39 | 11 | 10   | 60° | 35 | 35 | M6X12  | 882               | 1370 | 200        |
| KBE25UU   | 25             | 27                   | 30   | 60  | 65  | 47 | 14 | 11.5 | 60° | 40 | 40 | M6X12  | 980               | 1570 | 450        |
| KBE30UU   | 30             | 33                   | 35   | 70  | 70  | 56 | 15 | 14   | 60° | 50 | 50 | M8X18  | 1570              | 2740 | 630        |
| KBE40UU   | 40             | 42                   | 45   | 90  | 90  | 72 | 20 | 19   | 60° | 65 | 65 | M10X20 | 2160              | 4020 | 1330       |
| KBE50UU   | 50             | 53                   | 60   | 120 | 110 | 92 | 25 | 23   | 60° | 94 | 80 | M10X20 | 3820              | 7940 | 3000       |



Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ball screw Support Unit

Cross Roller Guide

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

Rectangle Wheel Linear Rail

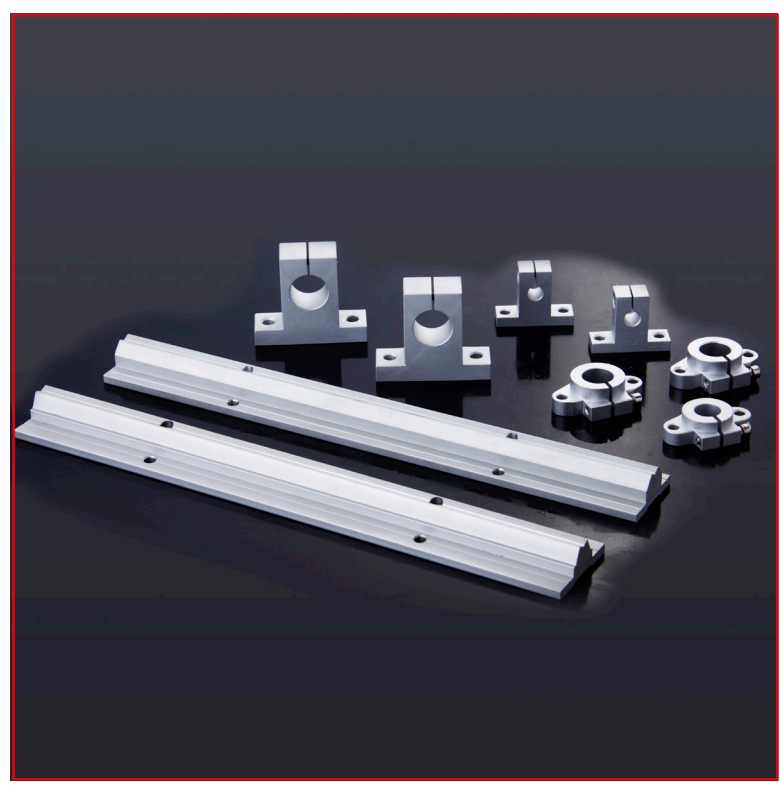
Ball Screw

Ball screw Support Unit

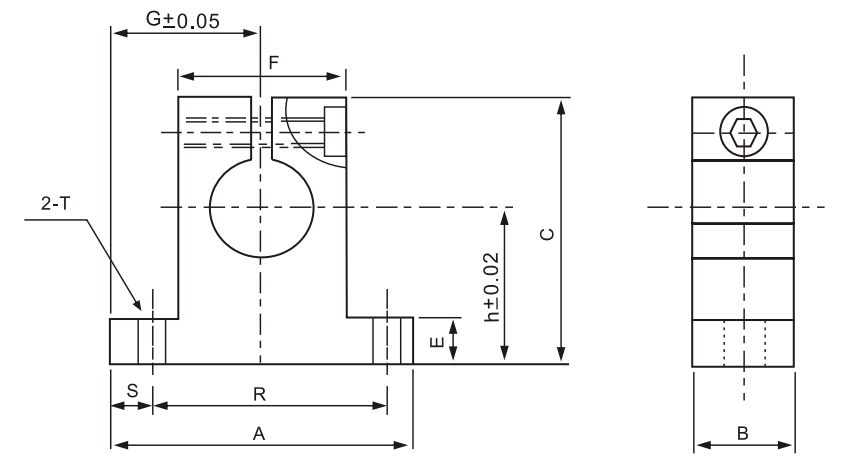
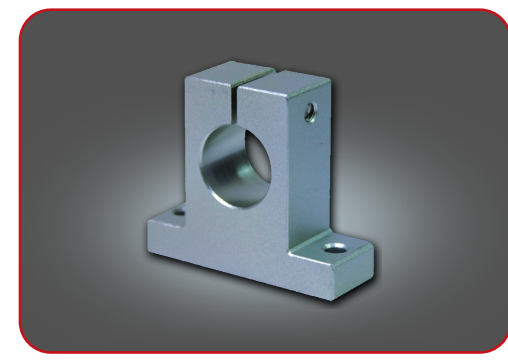
Cross Roller Guide

# 03

## Shaft Support Serie



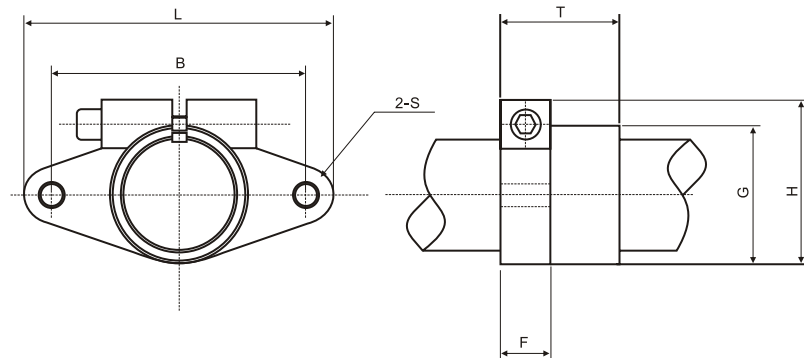
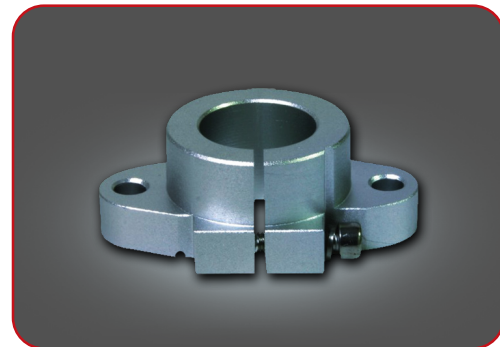
Slide Unit **SK** Type



| Part No. | Shaft Diameter | Main dimensions (mm) |    |     |    |      |    |    |     |     |     | Clamping bolt designation | Mounting bolt designation | Weight (g) |
|----------|----------------|----------------------|----|-----|----|------|----|----|-----|-----|-----|---------------------------|---------------------------|------------|
|          |                | h                    | G  | A   | B  | C    | E  | F  | R   | S   | T   |                           |                           |            |
| SK-8     | 8              | 20                   | 21 | 42  | 14 | 32.8 | 6  | 18 | 32  | 5   | 5.5 | M4                        | M5                        | 24         |
| SK-10    | 10             | 20                   | 21 | 42  | 14 | 32.8 | 6  | 18 | 32  | 5   | 5.5 | M4                        | M5                        | 24         |
| SK-12    | 12             | 23                   | 21 | 42  | 14 | 37.5 | 6  | 20 | 32  | 5   | 5.5 | M4                        | M5                        | 30         |
| SK-13    | 13             | 23                   | 21 | 42  | 14 | 37.5 | 6  | 20 | 32  | 5   | 5.5 | M4                        | M5                        | 30         |
| SK-16    | 16             | 27                   | 24 | 48  | 16 | 44   | 8  | 25 | 38  | 5   | 5.5 | M4                        | M5                        | 40         |
| SK-20    | 20             | 31                   | 30 | 60  | 20 | 51   | 10 | 30 | 45  | 7.5 | 6.6 | M5                        | M6                        | 70         |
| SK-25    | 25             | 35                   | 35 | 70  | 24 | 60   | 12 | 38 | 56  | 7   | 6.6 | M6                        | M6                        | 130        |
| SK-30    | 30             | 42                   | 42 | 84  | 28 | 70   | 12 | 44 | 64  | 10  | 9   | M6                        | M8                        | 180        |
| SK-35    | 35             | 50                   | 49 | 98  | 32 | 82   | 15 | 50 | 74  | 12  | 11  | M8                        | M10                       | 270        |
| SK-40    | 40             | 60                   | 57 | 114 | 36 | 96   | 15 | 60 | 90  | 12  | 11  | M8                        | M10                       | 420        |
| SK-50    | 50             | 70                   | 63 | 126 | 40 | 120  | 18 | 74 | 100 | 13  | 14  | M12                       | M12                       | 750        |

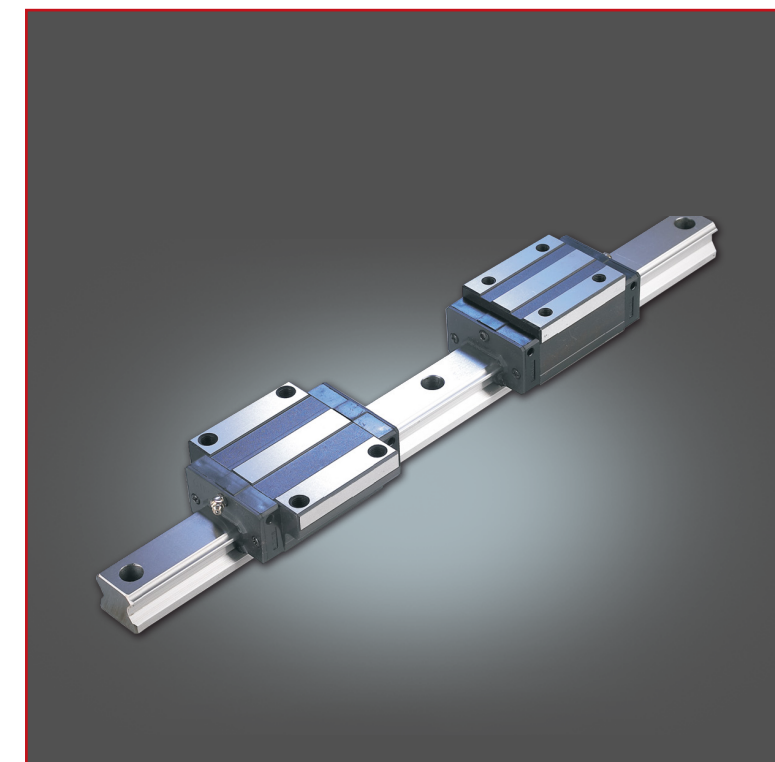


Slide Unit **SHF** Type



| Part No. | Shaft Diameter | Main dimensions (mm) |    |    |    |    |    |     | Clamping bolt designation | Mounting bolt designation | Weight (g) |
|----------|----------------|----------------------|----|----|----|----|----|-----|---------------------------|---------------------------|------------|
|          |                | L                    | T  | F  | B  | G  | H  | S   |                           |                           |            |
| SHF-10   | 10             | 43                   | 10 | 5  | 32 | 20 | 24 | 5.5 | M5                        | M4                        | 13         |
| SHF-12   | 12             | 47                   | 13 | 7  | 36 | 25 | 28 | 5.5 | M5                        | M4                        | 20         |
| SHF-13   | 13             | 47                   | 13 | 7  | 36 | 25 | 28 | 5.5 | M5                        | M4                        | 20         |
| SHF-16   | 16             | 50                   | 16 | 8  | 40 | 28 | 31 | 5.5 | M5                        | M4                        | 27         |
| SHF-20   | 20             | 60                   | 20 | 8  | 48 | 34 | 37 | 7   | M6                        | M5                        | 40         |
| SHF-25   | 25             | 70                   | 25 | 10 | 56 | 40 | 42 | 7   | M6                        | M5                        | 60         |
| SHF-30   | 30             | 80                   | 30 | 12 | 64 | 46 | 50 | 9   | M8                        | M6                        | 110        |
| SHF-35   | 35             | 92                   | 35 | 14 | 72 | 50 | 58 | 12  | M10                       | M8                        | 380        |
| SHF-40   | 40             | 105                  | 40 | 16 | 80 | 56 | 67 | 12  | M10                       | M10                       | 510        |
| SHF-50   | 50             | 122                  | 50 | 19 | 96 | 70 | 83 | 14  | M12                       | M12                       | 890        |

# 04 Linear Guide



Linear Bush Series

Slide Unit Series

Shaft Support Series  
SHF Series

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ballscrew Support Unit

Cross Roller Guide

Linear Bush Series

Slide Unit Series

Shaft Support Series

Linear Guide

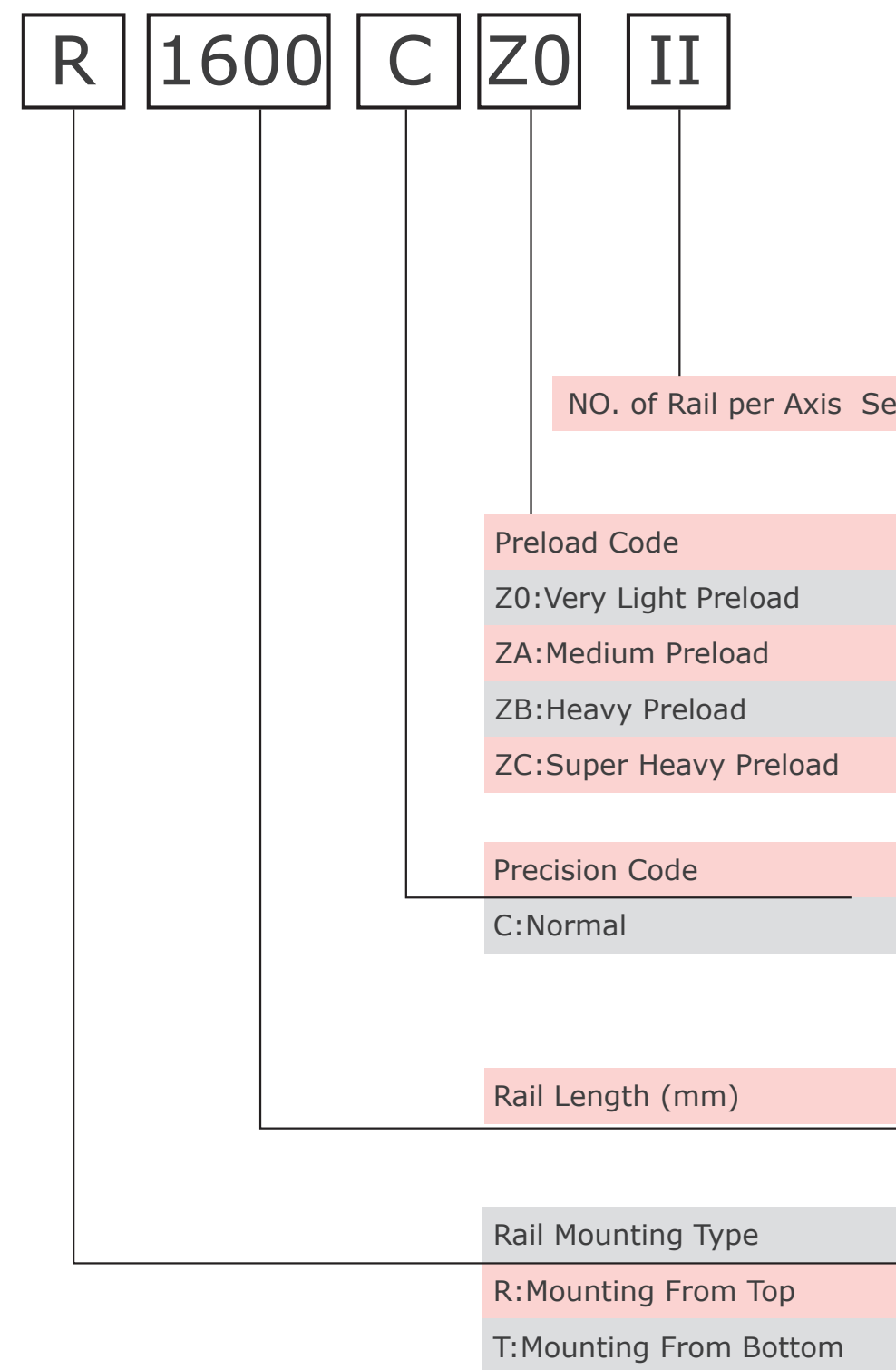
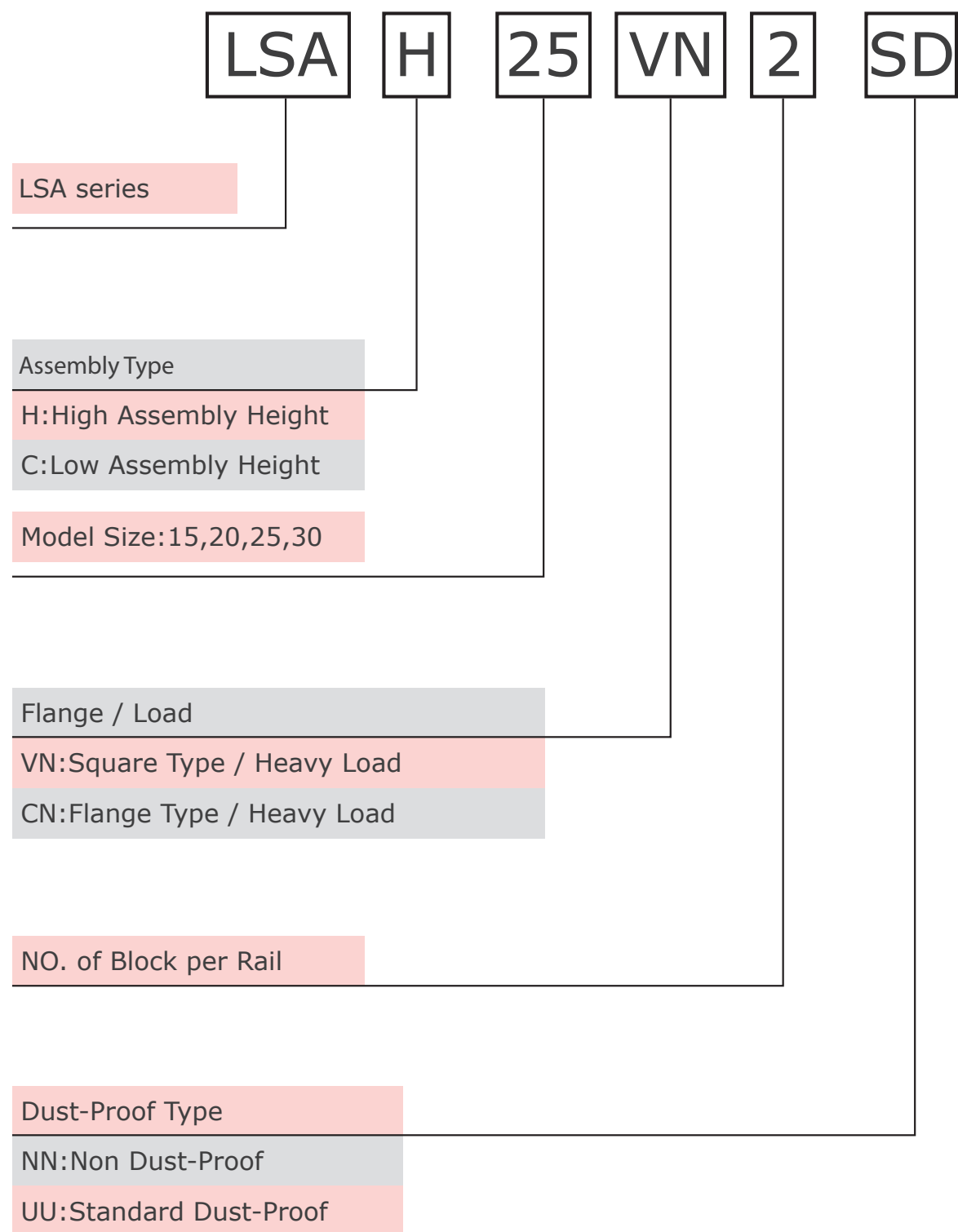
Rectangle Wheel Linear Rail

Ball Screw

Ballscrew Support Unit

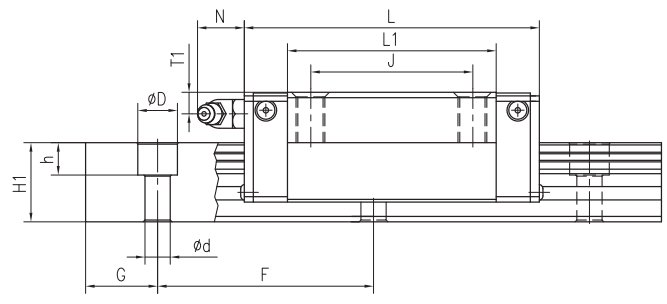
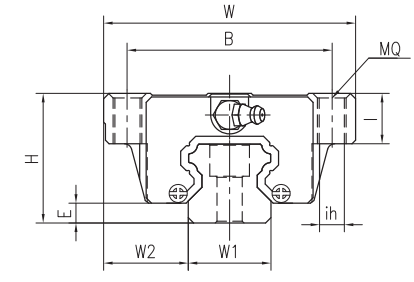
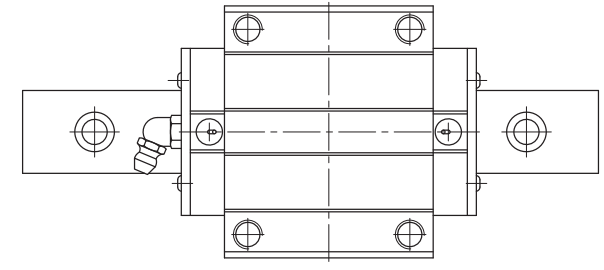
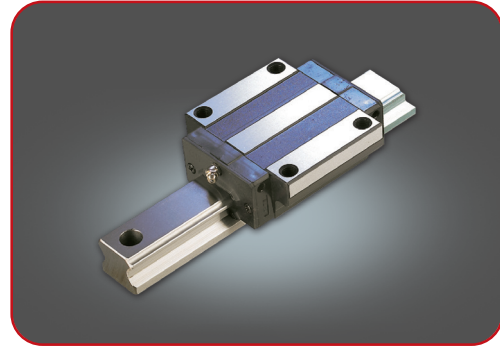
Cross Roller Guide

## Type number format

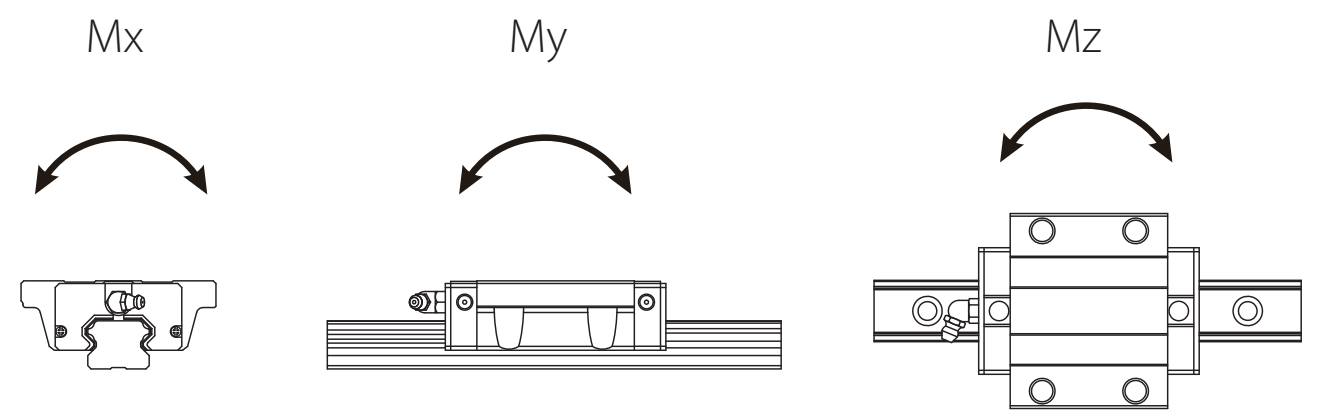


# LSAH\_CN/LSAH\_CL Series

High Assemble type with Flange



| Type  | Assembly (mm) |    |      |     | Block (mm) |    |    |     |      |     |      |         |      |        |
|-------|---------------|----|------|-----|------------|----|----|-----|------|-----|------|---------|------|--------|
|       | H             | W  | W2   | E   | L          | B  | J  | MQ  | I    | ih  | L1   | Oil H   | T1   | N      |
| H15CN | 24            | 47 | 16.0 | 3.0 | 58.5       | 38 | 30 | M5  | 8.0  | 4.4 | 39.9 | M4X0.7  | 5.1  | (7.5)  |
| H15CL | 24            | 47 | 16.0 | 3.0 | 66.3       | 38 | 30 | M5  | 8.0  | 4.4 | 47.7 | M4X0.7  | 5.1  | (7.5)  |
| H20CN | 30            | 63 | 21.5 | 4.5 | 72.8       | 53 | 40 | M6  | 9.0  | 5.4 | 50.0 | M6X1.25 | 10.0 | (13.6) |
| H20CL | 30            | 63 | 21.5 | 4.5 | 87.8       | 53 | 40 | M6  | 9.0  | 5.4 | 65.0 | M6X1.25 | 10.0 | (13.6) |
| H25CN | 36            | 70 | 23.5 | 5.8 | 87.4       | 57 | 45 | M8  | 10.0 | 6.8 | 59.8 | M6X1.25 | 9.4  | (13.6) |
| H25CL | 36            | 70 | 23.5 | 5.8 | 105.6      | 57 | 45 | M8  | 10.0 | 6.8 | 78.0 | M6X1.25 | 9.4  | (13.6) |
| H30CN | 42            | 90 | 31   | 7.0 | 101.3      | 72 | 52 | M10 | 11.0 | 8.8 | 69.3 | M6X1.25 | 10.0 | (13.6) |
| H30CL | 42            | 90 | 31   | 7.0 | 122.0      | 72 | 52 | M10 | 11.0 | 8.8 | 90.0 | M6X1.25 | 10.0 | (13.6) |



| Type  | Rail (mm) |      |    |     |      |      | Load Rating(Kgf)    |                    | Static Moment (Kgf*M) |        |        | Weight(kgf) |            |
|-------|-----------|------|----|-----|------|------|---------------------|--------------------|-----------------------|--------|--------|-------------|------------|
|       | W1        | H1   | F  | d   | D    | h    | Dynamic Load Rating | Static Load Rating | Mx                    | My     | Mz     | Block(kgf)  | Rail(kg/m) |
| H15CN | 15        | 13.0 | 60 | 4.5 | 7.5  | 6.0  | 900.5               | 2036.6             | 149.8                 | 115.1  | 115.1  | 0.21        | 1.30       |
| H15CL | 15        | 13.0 | 60 | 4.5 | 7.5  | 6.0  | 1089.5              | 2464.6             | 181.3                 | 169.8  | 169.8  | 0.23        | 1.30       |
| H20CN | 20        | 16.5 | 60 | 6.0 | 9.5  | 8.5  | 1481.5              | 3234.0             | 317.3                 | 229.0  | 229.0  | 0.40        | 2.30       |
| H20CL | 20        | 16.5 | 60 | 6.0 | 9.5  | 8.5  | 1959.4              | 4277.2             | 419.6                 | 404.4  | 404.4  | 0.46        | 2.30       |
| H25CN | 23        | 20.0 | 60 | 7.0 | 11.0 | 9.0  | 2058.3              | 4413.2             | 541.2                 | 376.0  | 376.0  | 0.57        | 3.20       |
| H25CL | 23        | 20.0 | 60 | 7.0 | 11.0 | 9.0  | 2729.3              | 5851.8             | 717.6                 | 667.1  | 667.1  | 0.72        | 3.20       |
| H30CN | 28        | 23.0 | 80 | 9.0 | 14.0 | 12.0 | 2943.2              | 5880.6             | 865.3                 | 578.3  | 578.3  | 1.10        | 4.50       |
| H30CL | 28        | 23.0 | 80 | 9.0 | 14.0 | 12.0 | 3887.2              | 7766.8             | 1142.9                | 1018.2 | 1018.2 | 1.34        | 4.50       |

Linear Bush Series

Side Unit Series

Shaft Support Series

Linear Guide  
LSAH-CN/LSAH-CL Series

Rectangle Wheel Linear Rail

Ball Screw

Ball Screw Support Unit

Cross Roller Guide

Linear Bush Series

Side Unit Series

Shaft Support Series

Linear Guide  
LSAH-CN/LSAH-CL Series

Rectangle Wheel Linear Rail

Ball Screw

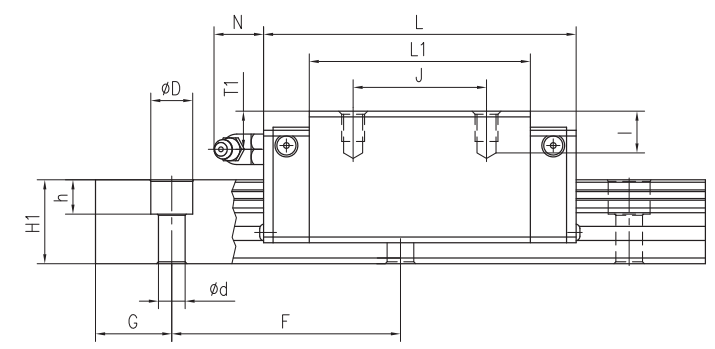
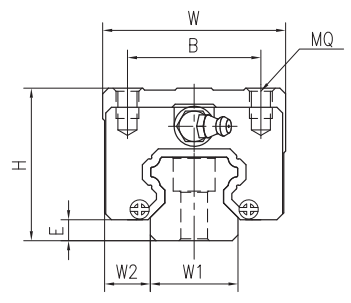
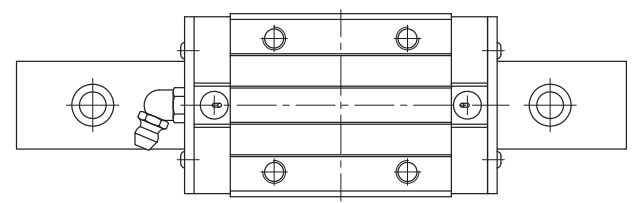
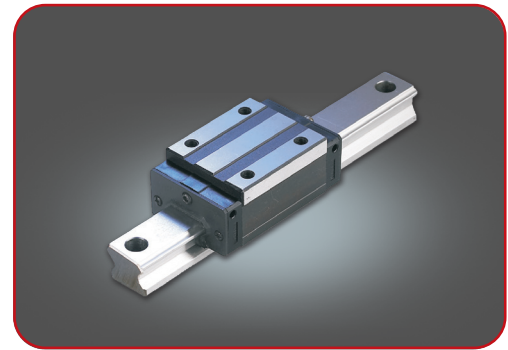
Ball Screw Support Unit

Cross Roller Guide

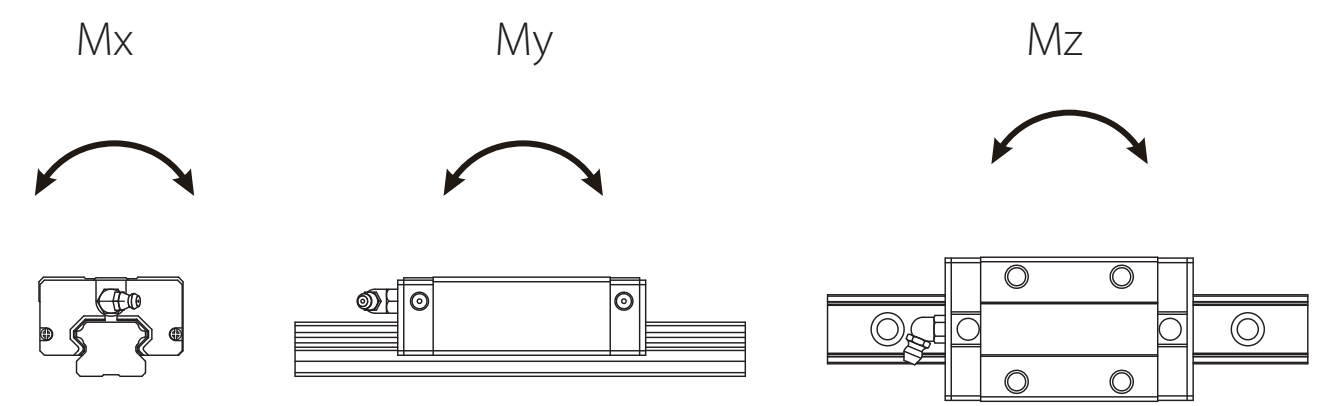


# LSAH\_VN/LSAH\_VL Series

High Assemble type without Flange



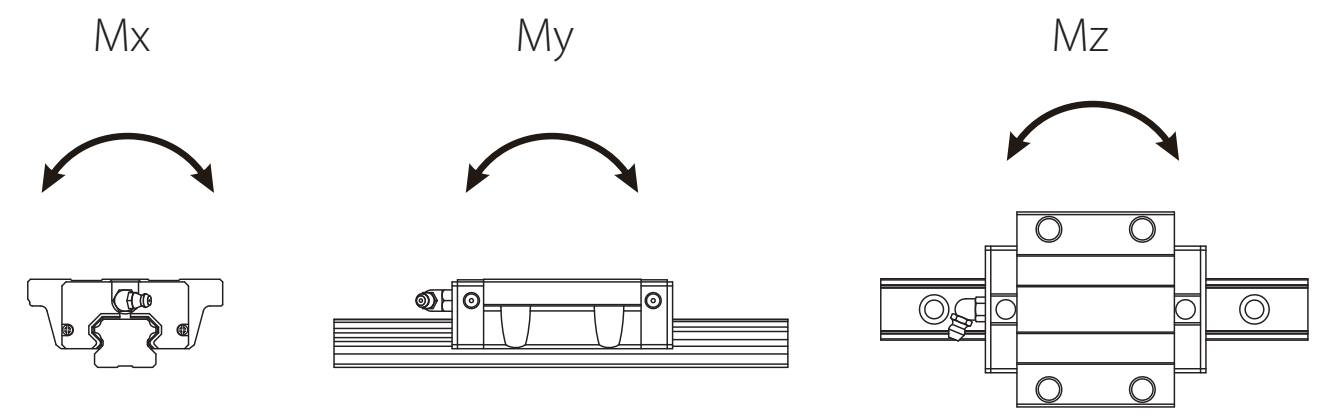
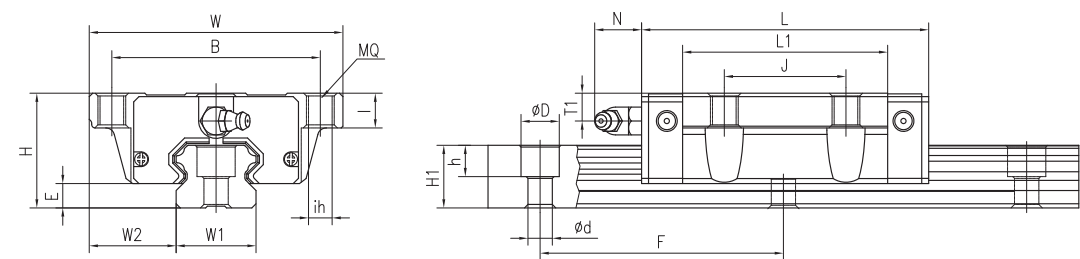
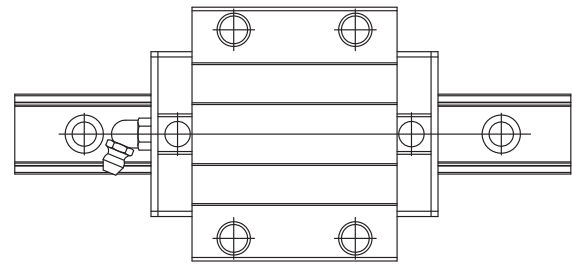
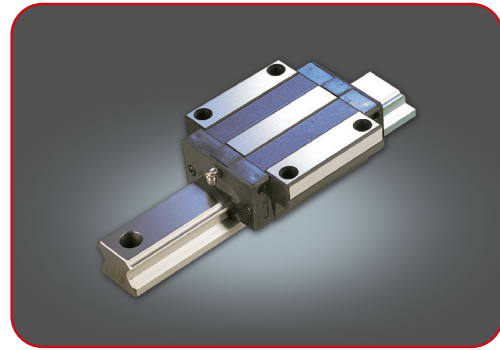
| Type  | Assembly (mm) |    |      |     | Block (mm) |    |    |    |      |      |         |      |        |
|-------|---------------|----|------|-----|------------|----|----|----|------|------|---------|------|--------|
|       | H             | W  | W2   | E   | L          | B  | J  | MQ | I    | L1   | Oil H   | T1   | N      |
| H15VN | 28            | 34 | 9.5  | 3.8 | 58.5       | 26 | 26 | M4 | 8.0  | 39.9 | M4X0.7  | 9.1  | (7.5)  |
| H20VN | 30            | 44 | 12.0 | 4.5 | 72.8       | 32 | 36 | M5 | 10.0 | 50.0 | M4X0.7  | 10.0 | (13.6) |
| H20VL | 30            | 44 | 12.0 | 4.5 | 87.8       | 32 | 50 | M5 | 10.0 | 65.0 | M6X1.25 | 10.0 | (13.6) |
| H25VN | 40            | 48 | 12.5 | 5.8 | 87.4       | 35 | 35 | M6 | 12.0 | 59.8 | M6X1.25 | 13.4 | (13.6) |
| H25VL | 40            | 48 | 12.5 | 5.8 | 105.6      | 35 | 50 | M6 | 12.0 | 78.0 | M6X1.25 | 13.4 | (13.6) |
| X25VN | 36            | 48 | 12.5 | 5.8 | 87.4       | 35 | 35 | M6 | 12.0 | 59.8 | M6X1.25 | 9.4  | (13.6) |
| X25VL | 36            | 48 | 12.5 | 5.8 | 105.6      | 35 | 50 | M6 | 12.0 | 78.0 | M6X1.25 | 9.4  | (13.6) |
| H30VN | 45            | 60 | 16.0 | 7.0 | 101.3      | 40 | 40 | M8 | 16.0 | 69.3 | M6X1.25 | 13.0 | (13.6) |
| H30VL | 45            | 60 | 16.0 | 7.0 | 122.0      | 40 | 60 | M8 | 16.0 | 90.0 | M6X1.25 | 13.0 | (13.6) |



| Type  | Rail (mm) |      |    |     |      |      | Load Rating(Kgf)    |                    | Static Moment (Kgf*M) |        |        | Weight(kgf) |            |
|-------|-----------|------|----|-----|------|------|---------------------|--------------------|-----------------------|--------|--------|-------------|------------|
|       | W1        | H1   | F  | d   | D    | h    | Dynamic Load Rating | Static Load Rating | Mx                    | My     | Mz     | Block(kgf)  | Rail(kg/m) |
| H15VN | 15        | 13.0 | 60 | 4.5 | 7.5  | 6.0  | 900.5               | 2036.6             | 149.8                 | 115.1  | 115.1  | 0.19        | 1.3        |
| H20VN | 20        | 16.5 | 60 | 6.0 | 9.5  | 8.5  | 1481.5              | 3234.0             | 317.3                 | 229.0  | 229.0  | 0.31        | 2.3        |
| H20VL | 20        | 16.5 | 60 | 6.0 | 9.5  | 8.5  | 1959.4              | 4277.2             | 419.6                 | 404.2  | 404.2  | 0.36        | 2.3        |
| H25VN | 23        | 20.0 | 60 | 7.0 | 11.0 | 9.0  | 2058.3              | 4413.2             | 541.2                 | 376.0  | 376.0  | 0.45        | 3.2        |
| H25VL | 23        | 20.0 | 60 | 7.0 | 11.0 | 9.0  | 2729.3              | 5851.8             | 717.6                 | 667.1  | 667.1  | 0.66        | 3.2        |
| X25VN | 23        | 20.0 | 60 | 7.0 | 11.0 | 9.0  | 2058.3              | 4413.2             | 541.2                 | 376.0  | 376.0  | 0.40        | 3.2        |
| X25VL | 23        | 20.0 | 60 | 7.0 | 11.0 | 9.0  | 2729.3              | 5851.8             | 717.6                 | 667.1  | 667.1  | 0.67        | 3.2        |
| H30VN | 28        | 23.0 | 80 | 9.0 | 14.0 | 12.0 | 2943.2              | 5880.6             | 865.3                 | 578.3  | 578.3  | 0.91        | 4.5        |
| H30VL | 28        | 23.0 | 80 | 9.0 | 14.0 | 12.0 | 3887.2              | 7766.8             | 1142.9                | 1018.2 | 1018.2 | 1.04        | 4.5        |

# LSAC\_CN/LSAC\_CS Series

Low Assemble type with Flange



| Type  | Assembly (mm) |     |      |     | Block (mm) |    |    |     |      |     |      |         |      |        |
|-------|---------------|-----|------|-----|------------|----|----|-----|------|-----|------|---------|------|--------|
|       | H             | W   | W2   | E   | L          | B  | J  | MQ  | I    | ih  | L1   | Oil H   | T1   | N      |
| C15CS | 24            | 52  | 18.5 | 3.0 | 40.5       | 41 |    | M5  | 8.0  | 4.4 | 21.9 | M4X0.7  | 5.1  | (7.5)  |
| C15CN | 24            | 52  | 18.5 | 3.0 | 58.5       | 41 | 26 | M5  | 8.0  | 4.4 | 39.9 | M4X0.7  | 5.1  | (7.5)  |
| C20CS | 28            | 59  | 19.5 | 4.5 | 50.3       | 49 |    | M6  | 7.0  | 5.4 | 27.5 | M6X1.25 | 8.0  | (13.6) |
| C20CN | 28            | 59  | 19.5 | 4.5 | 72.8       | 49 | 32 | M6  | 7.0  | 5.4 | 50.0 | M6X1.25 | 8.0  | (13.6) |
| C25CS | 33            | 73  | 25.0 | 5.8 | 59.9       | 60 |    | M8  | 7.0  | 6.8 | 32.3 | M6X1.25 | 6.4  | (13.6) |
| C25CN | 33            | 73  | 25.0 | 5.8 | 87.4       | 60 | 35 | M8  | 7.0  | 6.8 | 59.8 | M6X1.25 | 6.4  | (13.6) |
| C30CS | 42            | 90  | 31.0 | 7.0 | 69.2       | 72 |    | M10 | 11.0 | 8.8 | 37.2 | M6X1.25 | 10.0 | (13.6) |
| C35CN | 48            | 100 | 33.0 | 7.5 | 80.5       | 82 |    | M10 | 12.0 | 8.8 | 44.5 | M6X1.25 | 11.5 | (16)   |

| Type  | Rail (mm) |      |    |     |      |      | Load Rating(Kgf)    |                    | Static Moment (Kgf*M) |       |       | Weight(kgf) |            |
|-------|-----------|------|----|-----|------|------|---------------------|--------------------|-----------------------|-------|-------|-------------|------------|
|       | W1        | H1   | F  | d   | D    | h    | Dynamic Load Rating | Static Load Rating | Mx                    | My    | Mz    | Block(kgf)  | Rail(kg/m) |
| C15CS | 15        | 13.0 | 60 | 4.5 | 7.5  | 6.0  | 463.8               | 1049.1             | 77.2                  | 29.4  | 29.4  | 0.12        | 1.30       |
| C15CN | 15        | 13.0 | 60 | 4.5 | 7.5  | 6.0  | 900.5               | 2036.6             | 149.8                 | 115.1 | 115.1 | 0.19        | 1.30       |
| C20CS | 20        | 16.5 | 60 | 6.0 | 9.5  | 8.5  | 764.6               | 1669.2             | 163.7                 | 58.8  | 58.8  | 0.18        | 2.30       |
| C20CN | 20        | 16.5 | 60 | 6.0 | 9.5  | 8.5  | 1481.5              | 3234.0             | 317.3                 | 229.0 | 229.0 | 0.31        | 2.30       |
| C25CS | 23        | 20.0 | 60 | 7.0 | 11.0 | 9.0  | 1044.5              | 2239.4             | 274.6                 | 93.4  | 39.4  | 0.33        | 3.20       |
| C25CN | 23        | 20.0 | 60 | 7.0 | 11.0 | 9.0  | 2058.3              | 4413.2             | 541.2                 | 376.0 | 376.0 | 0.50        | 3.20       |
| C30CS | 28        | 23.0 | 80 | 9.0 | 14.0 | 12.0 | 1479.3              | 2955.7             | 434.9                 | 140.6 | 140.6 | 0.80        | 4.50       |
| C35CS | 34        | 26.0 | 80 | 9.0 | 14.0 | 12.0 | 2043.7              | 4341.9             | 745.4                 | 248.5 | 248.5 | 1.00        | 6.20       |

Linear Bush Series

Side Unit Series

Shaft Support Series

Linear Guide  
LSAC\_CN/LSAC\_CS Series

Rectangle Wheel Linear Rail

Ball Screw

Ball Screw Support Unit

Cross Roller Guide

Linear Bush Series

Side Unit Series

Shaft Support Series

Linear Guide  
LSAC\_CN/LSAC\_CS Series

Rectangle Wheel Linear Rail

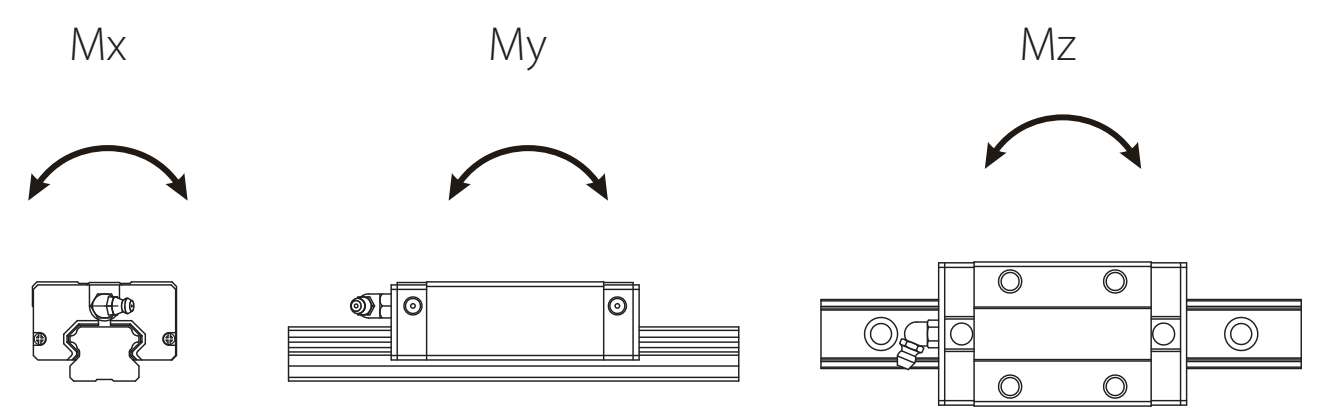
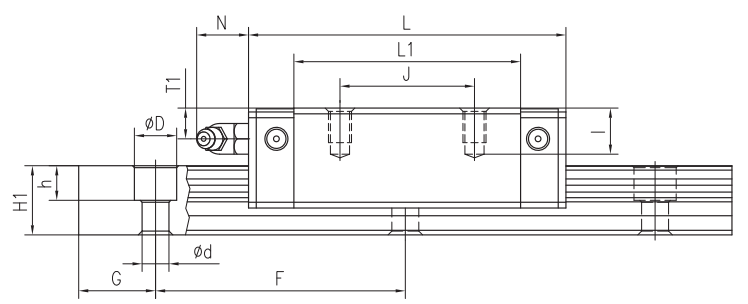
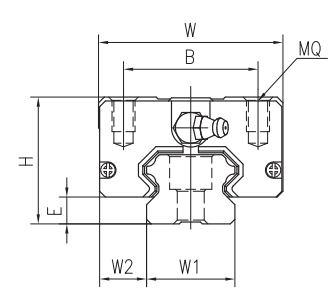
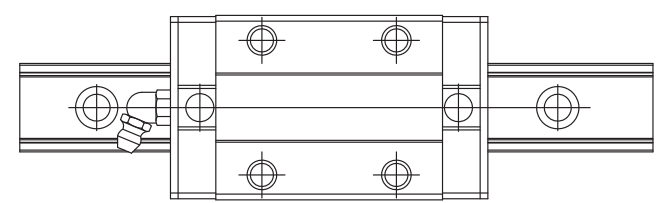
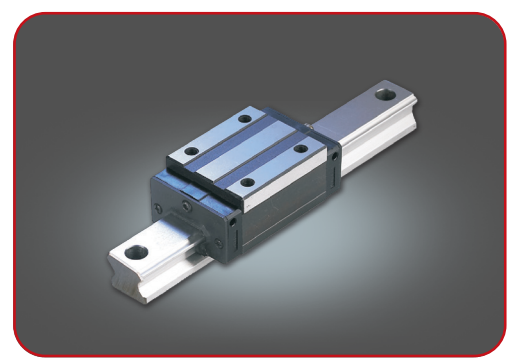
Ball Screw

Ball Screw Support Unit

Cross Roller Guide

# LSAC\_VS/LSAC\_VN Series

Low Assemble type without Flange



| Type  | Assembly (mm) |    |      |     | Block (mm) |    |    |    |      |      |         |      |        |
|-------|---------------|----|------|-----|------------|----|----|----|------|------|---------|------|--------|
|       | H             | W  | W2   | E   | L          | B  | J  | MQ | I    | L1   | Oil H   | T1   | N      |
| C15VS | 24            | 34 | 9.5  | 3.8 | 40.5       | 26 |    | M4 | 8.0  | 21.9 | M4X0.7  | 5.1  | (7.5)  |
| C15VN | 24            | 34 | 9.5  | 3.8 | 58.5       | 26 | 26 | M4 | 8.0  | 39.9 | M4X0.7  | 5.1  | (7.5)  |
| C20VS | 28            | 42 | 11.0 | 4.5 | 50.3       | 32 |    | M5 | 10.0 | 27.5 | M6X1.25 | 8.0  | (13.6) |
| C20VN | 28            | 42 | 11.0 | 4.5 | 72.8       | 32 | 32 | M5 | 10.0 | 50.0 | M6X1.25 | 8.0  | (13.6) |
| C25VS | 33            | 48 | 12.5 | 5.8 | 59.9       | 35 |    | M6 | 12.0 | 32.3 | M6X1.25 | 6.4  | (13.6) |
| C25VN | 33            | 48 | 12.5 | 5.8 | 87.4       | 35 | 35 | M6 | 12.0 | 59.8 | M6X1.25 | 6.4  | (13.6) |
| C30VS | 42            | 60 | 16.0 | 7.0 | 69.2       | 40 |    | M8 | 16.0 | 37.2 | M6X1.25 | 10.0 | (13.6) |
| C30VN | 42            | 60 | 16.0 | 7.0 | 101.3      | 40 | 40 | M8 | 16.0 | 69.3 | M6X1.25 | 10.0 | (13.6) |

| Type  | Rail (mm) |      |    |     |      |      | Load Rating(Kgf)    |                    | Static Moment (Kgf*M) |       |       | Weight(kgf) |            |
|-------|-----------|------|----|-----|------|------|---------------------|--------------------|-----------------------|-------|-------|-------------|------------|
|       | W1        | H1   | F  | d   | D    | h    | Dynamic Load Rating | Static Load Rating | Mx                    | My    | Mz    | Block(kgf)  | Rail(kg/m) |
| C15VS | 15        | 13.0 | 60 | 4.5 | 7.5  | 6.0  | 463.8               | 1049.1             | 77.2                  | 29.4  | 29.4  | 0.10        | 1.30       |
| C15VN | 15        | 13.0 | 60 | 4.5 | 7.5  | 6.0  | 900.5               | 2036.6             | 149.8                 | 115.1 | 115.1 | 0.17        | 1.30       |
| C20VS | 20        | 16.5 | 60 | 6.0 | 9.5  | 8.5  | 764.6               | 1669.2             | 163.7                 | 58.8  | 58.5  | 0.17        | 2.30       |
| C20VN | 20        | 16.5 | 60 | 6.0 | 9.5  | 8.5  | 1481.5              | 3234.0             | 317.3                 | 229.0 | 229.0 | 0.26        | 2.30       |
| C25VS | 23        | 20.0 | 60 | 7.0 | 11.0 | 9.0  | 1044.5              | 2239.4             | 274.6                 | 93.4  | 93.4  | 0.21        | 3.20       |
| C25VN | 23        | 20.0 | 60 | 7.0 | 11.0 | 9.0  | 2058.3              | 4413.2             | 541.2                 | 376.0 | 376.0 | 0.38        | 3.20       |
| C30VS | 28        | 23.0 | 80 | 9.0 | 14.0 | 12.0 | 1479.3              | 2955.7             | 434.9                 | 140.6 | 140.6 | 0.50        | 4.50       |
| C30VN | 28        | 23.0 | 80 | 9.0 | 14.0 | 12.0 | 2943.2              | 5880.6             | 865.3                 | 578.3 | 578.3 | 0.80        | 4.50       |

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ballscrew Support Unit

Cross Roller Guide

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ballscrew Support Unit

Cross Roller Guide

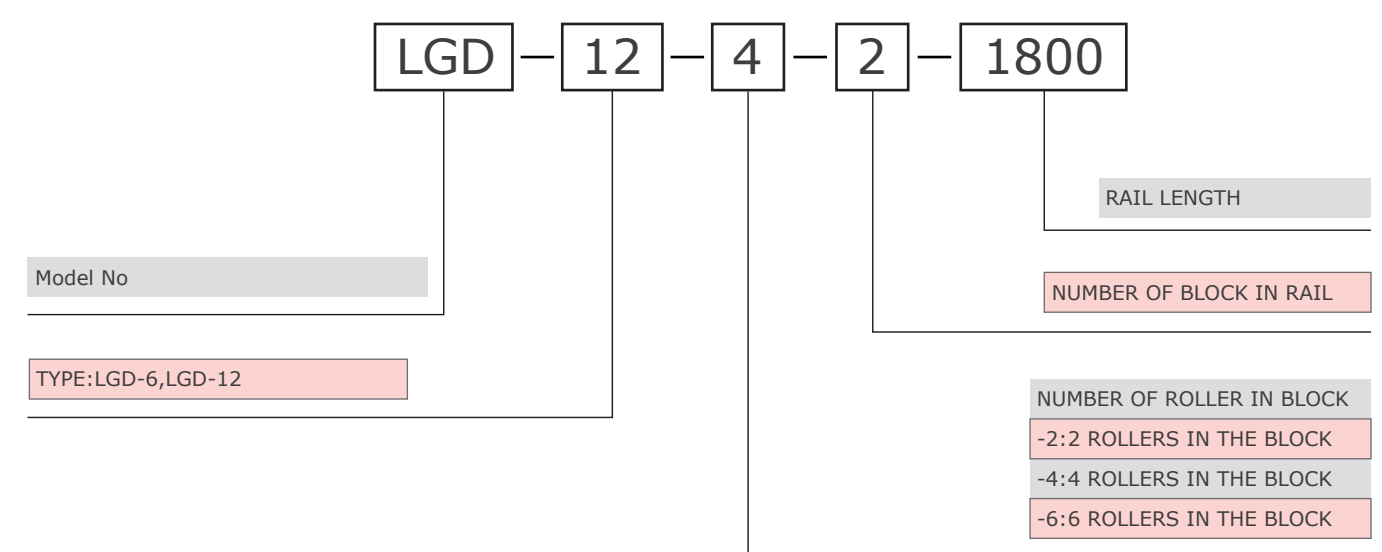
# 05

## Rectangle Wheel Linear Rail

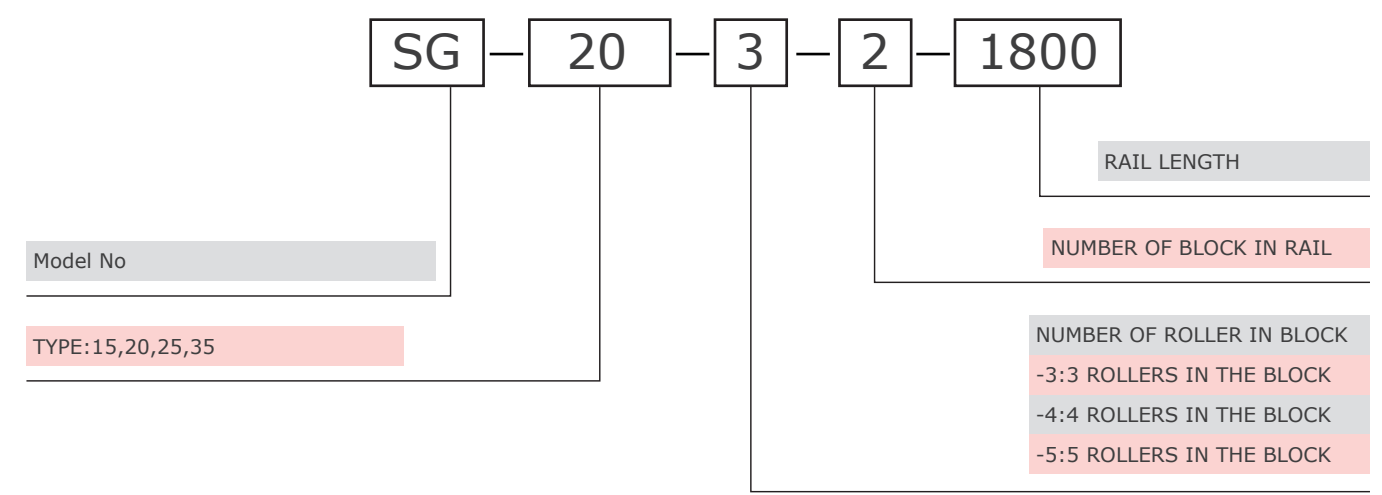


### Type number format

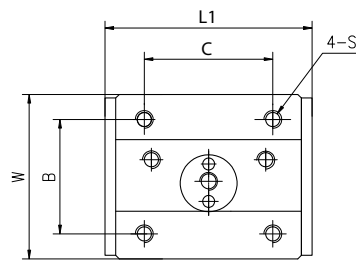
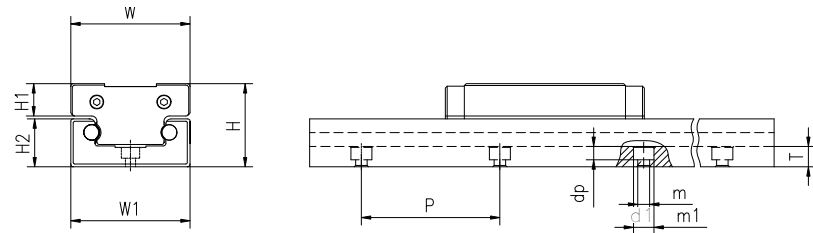
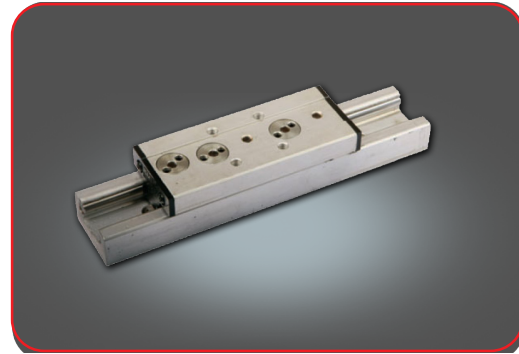
#### LM GUIDE BY TRACK ROLLER BEARING- **LGD Series**



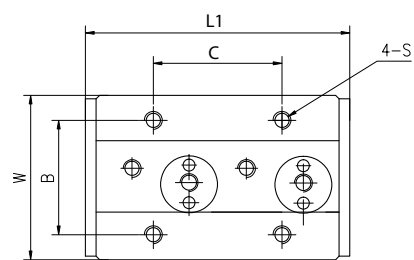
#### LM GUIDE BY TRACK ROLLER BEARING- **SG Series**



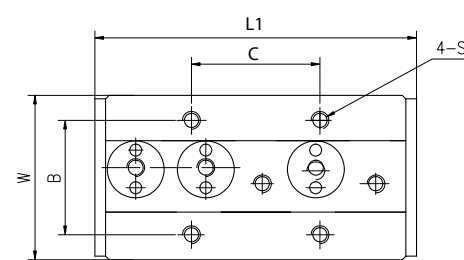
## SG Series



SGB(-3)



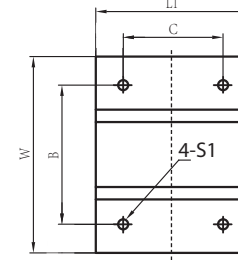
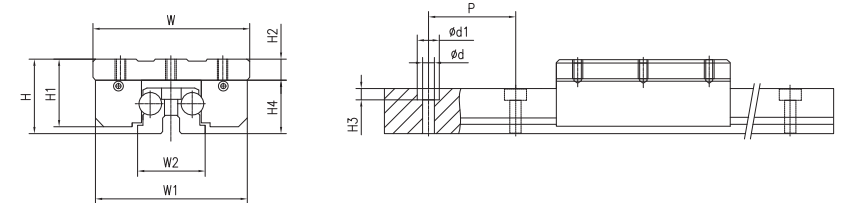
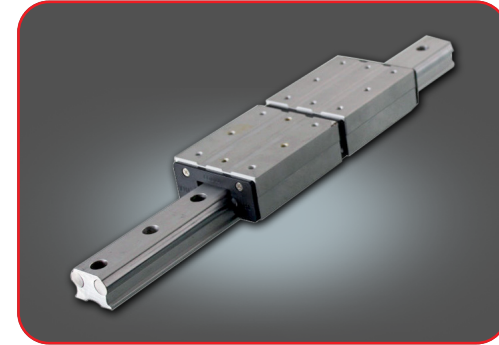
SGB(-4)



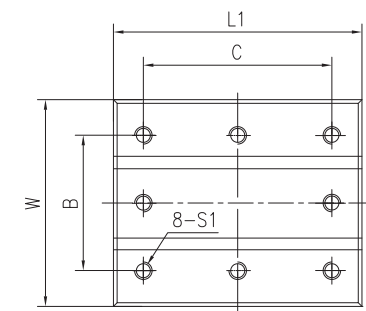
SGB(-5)

| Model No. | Guide SGR |    |      |     |     |              |    |     |     |     |     |     |      |      | Slider SGB |     |     |             |                    |                       |       |                     |      |      |               |
|-----------|-----------|----|------|-----|-----|--------------|----|-----|-----|-----|-----|-----|------|------|------------|-----|-----|-------------|--------------------|-----------------------|-------|---------------------|------|------|---------------|
|           | SGB       | H  | H2   | P   | dp  | Weight (k/m) | T  | d1  | d   | W1  | W   | L1  | Lmax | B    | C          | S   | H1  | Roller Num. | Eccentric Position | Basic Dynamic Load(N) |       | Static Moment (N-m) |      |      | Weight (gf/m) |
|           |           |    |      |     |     |              |    |     |     |     |     |     |      |      |            |     |     |             |                    | Yo                    | Zo    | Mx                  | My   | Mz   |               |
| SG10      | -3        | 23 | 14   | 60  | 3.3 | 1.05         | 7  | 6   | 3.4 | 28  | 28  | 47  | 4000 | 18.5 | 30         | M4  | 8.5 | 3           | 2                  | 343                   | 322   | 6.4                 | 6.8  | 7.1  | 1402          |
|           | 63        |    |      |     |     |              |    |     |     |     |     | 4   |      |      |            |     |     | 1.3         | 450                | 420                   | 7.5   | 8.1                 | 8.6  | 1621 |               |
|           | 80        |    |      |     |     |              |    |     |     |     |     | 5   |      |      |            |     |     | 2.4         | 465                | 435                   | 8.3   | 8.8                 | 9.4  | 1722 |               |
| SG15N     | -3        | 32 | 18.5 | 120 | 5.5 | 1.65         | 7  | 8   | 4.5 | 38  | 44  | 60  | 4000 | 26   | 26         | M5  | 12  | 3           | 2                  | 490                   | 460   | 10.2                | 9.2  | 9.8  | 1846          |
|           | 80        |    |      |     |     |              |    |     |     |     |     | 4   |      |      |            |     |     | 1.3         | 700                | 660                   | 14.5  | 13.2                | 14.0 | 2146 |               |
|           | 100       |    |      |     |     |              |    |     |     |     |     | 5   |      |      |            |     |     | 2.4         | 980                | 980                   | 20.3  | 37                  | 39   | 2216 |               |
| SG15      | -3        | 32 | 18.5 | 120 | 5.5 | 1.76         | 8  | 8   | 4.5 | 46  | 46  | 52  | 4000 | 32   | 36         | M5  | 12  | 3           | 2                  | 490                   | 460   | 13.8                | 7.4  | 7.8  | 2306          |
|           | 72        |    |      |     |     |              |    |     |     |     |     | 4   |      |      |            |     |     | 1.3         | 700                | 660                   | 19.8  | 21.1                | 22.4 | 2366 |               |
|           | 86        |    |      |     |     |              |    |     |     |     |     | 5   |      |      |            |     |     | 2.4         | 980                | 700                   | 27.7  | 44.3                | 47   | 2426 |               |
| SG20N     | -3        | 36 | 22.5 | 120 | 5.5 | 2.25         | 8  | 9.5 | 5.5 | 47  | 47  | 80  | 4000 | 38   | 30         | M6  | 12  | 3           | 2                  | 820                   | 980   | 29.4                | 25.4 | 18.2 | 2739          |
|           | 104       |    |      |     |     |              |    |     |     |     |     | 4   |      |      |            |     |     | 1.3         | 1.0                | 1.4                   | 42    | 72.8                | 52   | 2799 |               |
|           | 130       |    |      |     |     |              |    |     |     |     |     | 5   |      |      |            |     |     | 2.4         | 4.4                | 19.6                  | 82.4  | 129                 | 92.4 | 2859 |               |
| SG20      | -3        | 36 | 22.5 | 120 | 5.5 | 2.75         | 8  | 9.5 | 5.5 | 60  | 60  | 80  | 4000 | 50   | 40         | M6  | 12  | 3           | 2                  | 820                   | 980   | 42.1                | 21.5 | 15.4 | 3568          |
|           | 104       |    |      |     |     |              |    |     |     |     |     | 4   |      |      |            |     |     | 1.3         | 1.0                | 1.4                   | 60.2  | 61.6                | 44   | 3628 |               |
|           | 130       |    |      |     |     |              |    |     |     |     |     | 5   |      |      |            |     |     | 2.4         | 1.4                | 19.6                  | 84.4  | 129                 | 92.4 | 3688 |               |
| SG25      | -3        | 44 | 26   | 120 | 6.5 | 3.88         | 9  | 11  | 6.5 | 70  | 70  | 100 | 4000 | 57   | 45         | M8  | 15  | 3           | 2                  | 12.6                  | 14.7  | 68                  | 49   | 42   | 4909          |
|           | 130       |    |      |     |     |              |    |     |     |     |     | 4   |      |      |            |     |     | 1.3         | 18.0               | 21.0                  | 96.6  | 139                 | 119  | 5009 |               |
|           | 160       |    |      |     |     |              |    |     |     |     |     | 5   |      |      |            |     |     | 2.4         | 25.2               | 29.4                  | 135   | 291                 | 249  | 5109 |               |
| SG35      | -3        | 56 | 35   | 160 | 8   | 6.45         | 11 | 14  | 8.5 | 90  | 100 | 135 | 6000 | 82   | 62         | M12 | 18  | 3           | 2                  | 28.0                  | 28.0  | 160                 | 126  | 128  | 8243          |
|           | 180       |    |      |     |     |              |    |     |     |     |     | 4   |      |      |            |     |     | 1.3         | 40.0               | 40.0                  | 228   | 360                 | 360  | 8643 |               |
|           | 225       |    |      |     |     |              |    |     |     |     |     | 5   |      |      |            |     |     | 2.4         | 56.0               | 56.0                  | 319   | 758                 | 456  | 9043 |               |
| SG50      | -4        | 98 | 70   | 200 | 16  | 21.1         | 25 | 23  | 16  | 150 | 148 | 245 | 2000 | 115  | 150        | M14 | 25  | 4           | 2/3                | 150.0                 | 150.0 | 940                 | 2900 | 1600 | 54000         |

## LGD Series

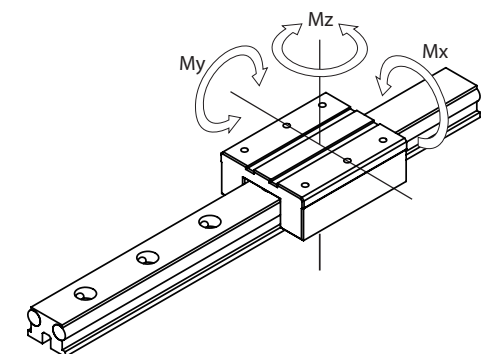
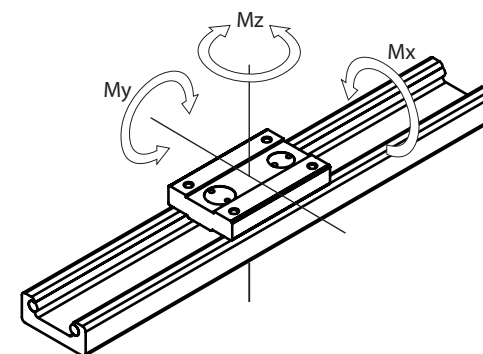


LGD-B(-6)



LGD-B(-12)

| Model No. | Assembly |     |    | Slider LGD-B |    |     |     |    |     |       | Guide LGD |      |      |     |    |      | No. of installation hole | Basic Dynamic Load(N) | Basic Static Load(N) | Weight (gf/m) |
|-----------|----------|-----|----|--------------|----|-----|-----|----|-----|-------|-----------|------|------|-----|----|------|--------------------------|-----------------------|----------------------|---------------|
|           | H        | W   | W2 | H1           | H2 | W1  | L1  | B  | C   | S1    | H3        | H4   | d1   | d   | p  | p1   |                          |                       |                      |               |
| LGD-6     | 29       | 60  | 26 | 26           | 12 | 58  | 60  | 38 | 40  | M5X8  | 6.5       | 17.8 | 9.5  | 5.5 | 60 | 4000 | 4                        | 100                   | 130                  | 1.25          |
|           |          |     |    |              |    |     | 100 |    |     |       |           |      |      |     |    |      | 75                       | 150                   |                      |               |
| LGD-8     | 33       | 67  | 30 | 27.5         | 14 | 65  | 70  | 45 | 45  | M6X9  | 8         | 21   | 9.5  | 5.5 | 80 | 4000 | 4                        | 120                   | 190                  | 2.0           |
|           |          |     |    |              |    |     | 100 |    |     |       |           |      |      |     |    |      | 75                       | 210                   |                      |               |
| LGD-12    | 39       | 82  | 36 | 35           | 12 | 80  | 60  | 54 | 36  | M6X12 | 8         | 25.5 | 10.5 | 6.5 | 50 | 100  | 6000                     | 4                     | 140                  | 3.1           |
|           |          |     |    |              |    |     | 100 |    |     |       |           |      |      |     |    |      | 76                       | 230                   |                      |               |
|           |          |     |    |              |    |     | 140 |    |     |       |           |      |      |     |    |      | 116                      | 300/330               |                      |               |
|           |          |     |    |              |    |     | 160 |    |     |       |           |      |      |     |    |      | 136                      | 350/400               |                      |               |
| LGD-16    | 50       | 120 | 50 | 45           | 14 | 118 | 150 | 90 | 120 | M8X14 | 10        | 33   | 14   | 8.5 | 80 | 6000 | 8                        | 480                   | 540                  | 4.7           |
|           |          |     |    |              |    |     | 190 |    |     |       |           |      |      |     |    |      | 150                      | 620                   |                      |               |





Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ballscrew Support Unit

Cross Roller Guide

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ballscrew Support Unit

Cross Roller Guide

# 06 Ball Screw



## Type number format

SFS R 025 05 C1 D G C5 600 P0

NUT TYPE CODES  
 S:SINGLE NUT  
 F: WITH FLANGE  
 U:DIN NUT  
 E:E TYPE NUT  
 S:DIN NUT

DIRECTION OF HELIX  
 R:RIGHT  
 L:LEFT

SHAFT DIA.(MM)

LEAD(MM)

NO.OF TURN(CIRCUITS) OR TURN x ROW  
 TURN:  
 T:1  
 A:1.5(OR 1.7/1.8)  
 B:2.5/2.8  
 C:3.8  
 D:4.8  
 EX:(2.5X2=B2)

AXIAL CLEARANCE AND PRELOAD CODE  
 P0/P1/P2/P3/P4

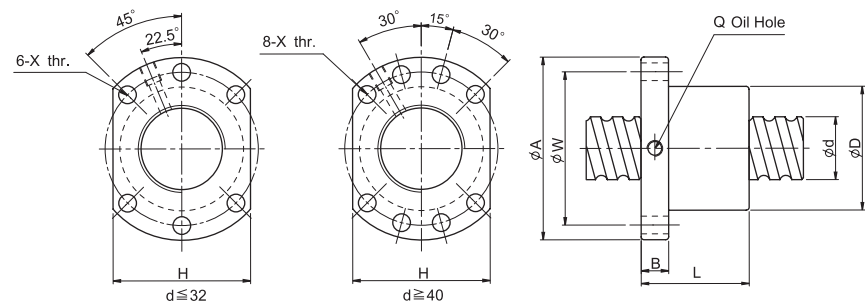
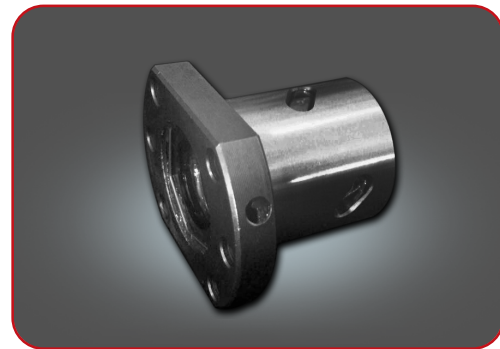
OVERALL LENGTH OF SHAFT(MM)

ACCURACY GRADE CODE  
 C0/C1/C2/C3/C5/C7/C10

PRODUCE CODE  
 G:GROUND  
 F:ROLLED

FLANGE TYPE  
 N:NOT CUTTING  
 S:SINGLE CUTTING  
 D:DOUBLE CUTTING

**SFU** Series

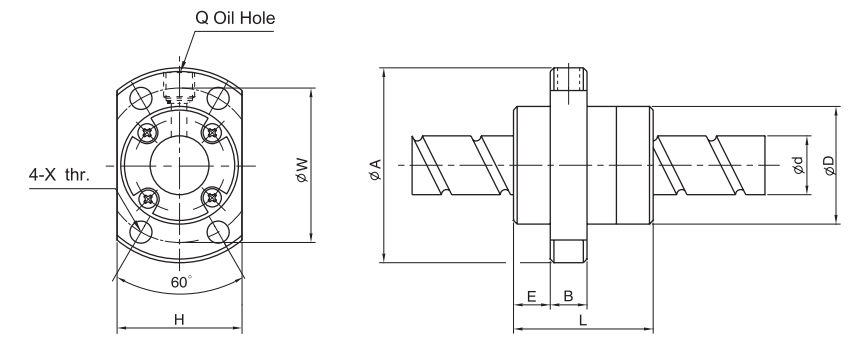
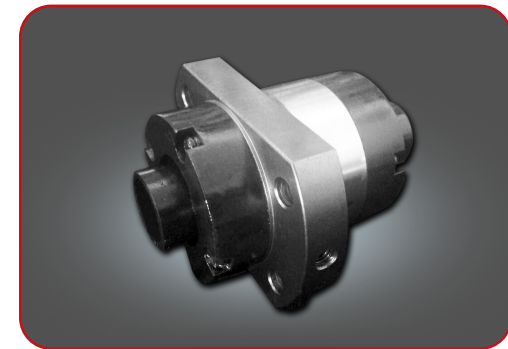


Unit: mm

| Part No.   | Main dimensions |    |       |    |    |    |    |    |    |     |    |     |      |       |    |
|------------|-----------------|----|-------|----|----|----|----|----|----|-----|----|-----|------|-------|----|
|            | d               | l  | Da    | D  | A  | B  | L  | W  | H  | X   | Q  | n   | Ca   | Coa   | K  |
| SFU01605-4 | 16              | 5  | 3.175 | 28 | 48 | 10 | 50 | 38 | 40 | 5.5 | M6 | 1x4 | 1380 | 3052  | 32 |
| SFU01610-3 | 16              | 10 | 3.175 | 28 | 48 | 10 | 57 | 38 | 40 | 5.5 | M6 | 1x3 | 1103 | 2401  | 26 |
| SFU02005-4 | 20              | 5  | 3.175 | 36 | 58 | 10 | 51 | 47 | 44 | 6.6 | M6 | 1x4 | 1551 | 3875  | 39 |
| SFU02505-4 | 25              | 5  | 3.175 | 40 | 62 | 10 | 51 | 51 | 48 | 6.6 | M6 | 1x4 | 1724 | 4904  | 45 |
| SFU02510-4 | 25              | 10 | 4.762 | 40 | 62 | 12 | 85 | 51 | 48 | 6.6 | M6 | 1x4 | 2954 | 7295  | 50 |
| SFU03205-4 | 32              | 5  | 3.175 | 50 | 80 | 12 | 52 | 65 | 62 | 9   | M6 | 1x4 | 1922 | 6343  | 54 |
| SFU03210-4 | 32              | 10 | 6.350 | 50 | 80 | 12 | 90 | 65 | 62 | 9   | M6 | 1x4 | 4805 | 12208 | 61 |
| SFU04005-4 | 40              | 5  | 3.175 | 63 | 93 | 14 | 55 | 78 | 70 | 9   | M8 | 1x4 | 2110 | 7988  | 63 |
| SFU04010-4 | 40              | 10 | 6.350 | 63 | 93 | 14 | 93 | 78 | 70 | 9   | M8 | 1x4 | 5399 | 15500 | 73 |

I: Lead    Da: Ball Dia.    n: No. of Circuits    K: Stiffness(N/um)    Ca: Basic Dynamic Rating Load(kN)  
Coa: Basic Static Rating Load(kN)

**SFE**

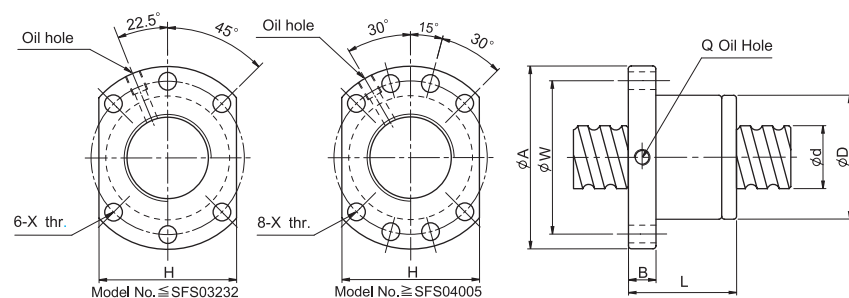
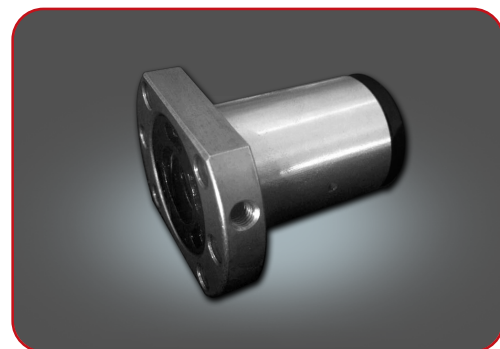


Unit: mm

| Part No.   | Main dimensions |    |       |    |    |      |    |    |     |    |    |    |       |      |       |     |
|------------|-----------------|----|-------|----|----|------|----|----|-----|----|----|----|-------|------|-------|-----|
|            | d               | l  | Da    | D  | A  | E    | B  | L  | X   | H  | W  | Q  | n     | Ca   | Coa   | K   |
| SFE01616-3 | 16              | 16 | 2.778 | 32 | 53 | 10.1 | 10 | 38 | 4.5 | 34 | 42 | M6 | 1.7X2 | 1021 | 2409  | 29  |
| SFE01616-6 | 16              | 16 | 2.778 | 32 | 53 | 10.1 | 10 | 38 | 4.5 | 34 | 42 | M6 | 1.7X4 | 1835 | 4818  | 57  |
| SFE02020-3 | 20              | 20 | 3.175 | 39 | 62 | 12   | 10 | 47 | 5.5 | 41 | 50 | M6 | 1.7X2 | 1321 | 3320  | 35  |
| SFE02020-6 | 20              | 20 | 3.175 | 39 | 62 | 12   | 10 | 47 | 5.5 | 41 | 50 | M6 | 1.7X4 | 2397 | 6640  | 67  |
| SFE02525-3 | 25              | 25 | 3.969 | 47 | 74 | 14   | 12 | 57 | 6.6 | 49 | 60 | M6 | 1.7X2 | 1974 | 5188  | 43  |
| SFE02525-6 | 25              | 25 | 3.969 | 47 | 74 | 14   | 12 | 57 | 6.6 | 49 | 60 | M6 | 1.7X4 | 3583 | 10377 | 83  |
| SFE03232-3 | 32              | 32 | 4.762 | 58 | 92 | 17   | 12 | 71 | 9   | 60 | 74 | M6 | 1.7X2 | 2876 | 8207  | 54  |
| SFE03232-6 | 32              | 32 | 4.762 | 58 | 92 | 17   | 12 | 71 | 9   | 60 | 74 | M6 | 1.7X4 | 5220 | 16414 | 106 |

I: Lead    Da: Ball Dia.    n: No. of Circuits    K: Stiffness(N/um)    Ca: Basic Dynamic Rating Load(kN)  
Coa: Basic Static Rating Load(kN)

**SFS**



Unit: mm

| Part No.     | Main dimensions |       |       |       |    |     |     |    |     |     |       |       |       |       |      |
|--------------|-----------------|-------|-------|-------|----|-----|-----|----|-----|-----|-------|-------|-------|-------|------|
|              | d               | l     | Da    | D     | A  | B   | L   | W  | H   | X   | Q     | n     | Ca    | Coa   | K    |
| SFS01605-3.8 | 15              | 5     | 2.778 | 28    | 48 | 10  | 38  | 38 | 40  | 5.5 | M6    | 3.8X1 | 1112  | 2507  | 30   |
| SFS01610-2.8 |                 | 10    | 2.778 | 28    | 48 | 10  | 47  | 38 | 40  | 5.5 | M6    | 2.8X1 | 839   | 1821  | 23   |
| SFS01616-1.8 |                 | 16    | 2.778 | 28    | 48 | 10  | 45  | 38 | 40  | 5.5 | M6    | 1.8X1 | 552   | 1137  | 14   |
| SFS01616-2.8 |                 | 16    | 2.778 | 28    | 48 | 10  | 61  | 38 | 40  | 5.5 | M6    | 2.8X1 | 808   | 1769  | 22   |
| SFS01620-1.8 |                 | 20    | 2.778 | 28    | 48 | 10  | 57  | 38 | 40  | 5.5 | M6    | 1.8X1 | 554   | 1170  | 14   |
| SFS02005-3.8 | 20              | 5     | 3.175 | 36    | 58 | 10  | 40  | 47 | 44  | 6.6 | M6    | 3.8X1 | 1484  | 3681  | 37   |
| SFS02006-4.8 |                 | 6     | 3.175 | 36    | 58 | 10  | 50  | 47 | 44  | 6.6 | M6    | 4.8X1 | 1811  | 4644  | 47   |
| SFS02008-4.8 |                 | 8     | 3.175 | 36    | 58 | 10  | 60  | 47 | 44  | 6.6 | M6    | 4.8X1 | 1863  | 4861  | 50   |
| SFS02010-3.8 |                 | 10    | 3.175 | 36    | 58 | 10  | 60  | 47 | 44  | 6.6 | M6    | 3.8X1 | 1516  | 3833  | 40   |
| SFS02020-1.8 |                 | 20    | 3.175 | 36    | 58 | 10  | 57  | 47 | 44  | 6.6 | M6    | 1.8X1 | 764   | 1758  | 19   |
| SFS02020-2.8 | 20              | 3.175 | 36    | 58    | 10 | 77  | 47  | 44 | 6.6 | M6  | 2.8X1 | 1118  | 2734  | 29    |      |
| SFS02505-3.8 | 25              | 5     | 3.175 | 40    | 62 | 10  | 40  | 51 | 48  | 6.6 | M6    | 3.8X1 | 1650  | 4658  | 43   |
| SFS02506-4.8 |                 | 6     | 3.175 | 40    | 62 | 10  | 50  | 51 | 48  | 6.6 | M6    | 4.8X1 | 2015  | 5879  | 55   |
| SFS02508-4.8 |                 | 8     | 3.175 | 40    | 62 | 10  | 60  | 51 | 48  | 6.6 | M6    | 4.8X1 | 2009  | 5867  | 56   |
| SFS02510-3.8 |                 | 10    | 3.175 | 40    | 62 | 12  | 62  | 51 | 48  | 6.6 | M6    | 3.8X1 | 1638  | 4633  | 45   |
| SFS02525-1.8 |                 | 25    | 3.175 | 40    | 62 | 12  | 70  | 51 | 48  | 6.6 | M6    | 1.8X1 | 843   | 2199  | 22   |
| SFS02525-2.8 | 25              | 3.175 | 40    | 62    | 12 | 95  | 51  | 48 | 6.6 | M6  | 2.8X1 | 1232  | 3421  | 34    |      |
| SFS03205-3.8 | 32              | 5     | 3.175 | 50    | 80 | 12  | 42  | 65 | 62  | 9   | M6    | 3.8X1 | 1839  | 6026  | 51   |
| SFS03206-4.8 |                 | 6     | 3.175 | 50    | 80 | 12  | 51  | 65 | 62  | 9   | M6    | 4.8X1 | 2247  | 7608  | 65   |
| SFS03208-4.8 |                 | 8     | 3.969 | 50    | 80 | 12  | 62  | 65 | 62  | 9   | M6    | 4.8X1 | 3015  | 9181  | 68   |
| SFS03210-3.8 |                 | 10    | 3.969 | 50    | 80 | 13  | 62  | 65 | 62  | 9   | M6    | 3.8X1 | 2460  | 7255  | 55   |
| SFS03220-2.8 |                 | 20    | 3.969 | 50    | 80 | 12  | 80  | 65 | 62  | 9   | M6    | 2.8X1 | 1907  | 5482  | 43   |
| SFS03232-1.8 | 31              | 32    | 3.969 | 50    | 80 | 13  | 84  | 65 | 62  | 9   | M6    | 1.8X1 | 1257  | 3426  | 27   |
| SFS03232-2.8 |                 | 32    | 3.969 | 50    | 80 | 13  | 116 | 65 | 62  | 9   | M6    | 2.8X1 | 1838  | 5329  | 42   |
| SFS04005-3.8 |                 | 40    | 5     | 3.175 | 63 | 93  | 15  | 45 | 78  | 70  | 9     | M8    | 3.8X1 | 2018  | 7589 |
| SFS04006-4.8 | 38              | 6     | 3.175 | 63    | 93 | 14  | 50  | 78 | 70  | 9   | M6    | 4.8X1 | 2467  | 9583  | 77   |
| SFS04008-4.8 |                 | 8     | 3.969 | 63    | 93 | 14  | 61  | 78 | 70  | 9   | M6    | 4.8X1 | 3327  | 11491 | 81   |
| SFS04010-3.8 |                 | 10    | 6.35  | 63    | 93 | 14  | 63  | 78 | 70  | 9   | M8    | 3.8X1 | 5035  | 13943 | 67   |
| SFS04020-2.8 |                 | 20    | 6.35  | 63    | 93 | 14  | 82  | 78 | 70  | 9   | M8    | 2.8X1 | 3959  | 10715 | 54   |
| SFS04040-1.8 |                 | 40    | 6.35  | 63    | 93 | 15  | 105 | 78 | 70  | 9   | M8    | 1.8X1 | 2585  | 6648  | 34   |
| SFS04040-2.8 | 40              | 6.35  | 63    | 93    | 15 | 145 | 78  | 70 | 9   | M8  | 2.8X1 | 3780  | 10341 | 52    |      |

I: Lead    Da: Ball Dia.    n: No. of Circuits    K: Stiffness(N/um)    Ca: Basic Dynamic Rating Load(kN)  
Coa: Basic Static Rating Load(kN)

# 07 Ballscrew Support Unit



Linear Bush Series

Slide Unit Series

Shaft Support Series

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw SFS Series

Ballscrew Support Unit

Cross Roller Guide

Linear Bush Series

Slide Unit Series

Shaft Support Series

Linear Guide

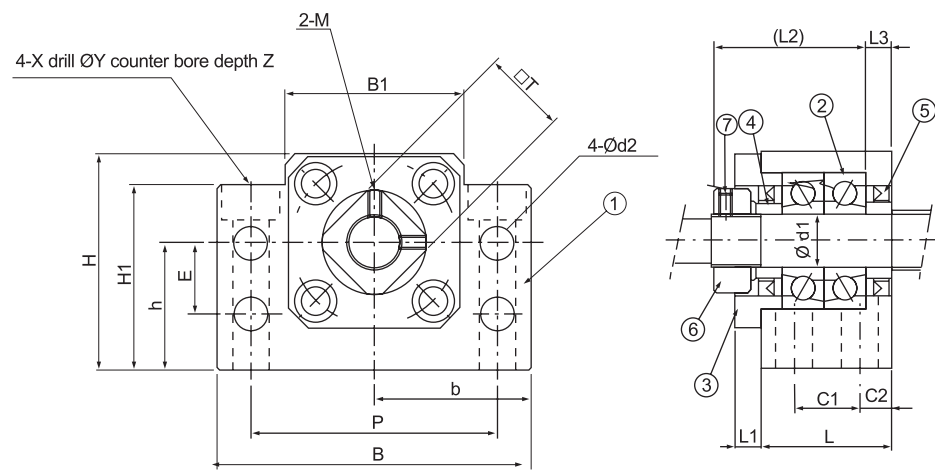
Rectangle Wheel Linear Rail

Ball Screw

Ballscrew Support Unit

Cross Roller Guide

Support Unit **BK**

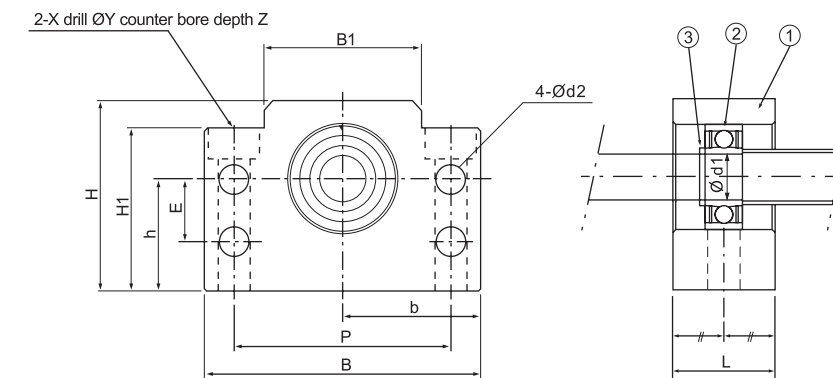
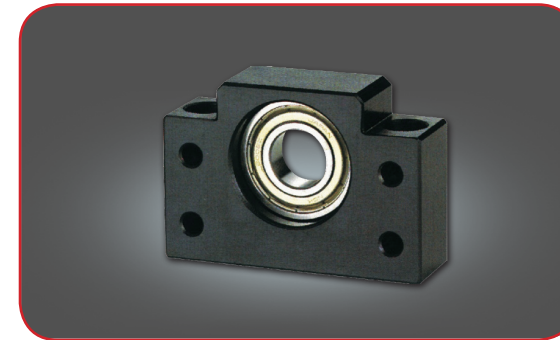


Unit: mm

| Part No. | Main Dimensions   |    |    |    |    |     |     |       |       |     |      |    |     |    |    |     |     |      |      |    |    |
|----------|-------------------|----|----|----|----|-----|-----|-------|-------|-----|------|----|-----|----|----|-----|-----|------|------|----|----|
|          | Shaft diameter d1 | L  | L1 | L2 | L3 | B   | H   | b     | h     | B1  | H1   | E  | P   | C1 | C2 | d2  | X   | Y    | Z    | M  | T  |
|          |                   |    |    |    |    |     |     | ±0.02 | ±0.02 |     |      |    |     |    |    |     |     |      |      |    |    |
| BK-10    | 10                | 25 | 5  | 29 | 5  | 60  | 39  | 30    | 22    | 34  | 32.5 | 15 | 46  | 13 | 6  | 5.5 | 6.6 | 10.8 | 5    | M3 | 16 |
| BK-12    | 12                | 25 | 5  | 29 | 5  | 60  | 43  | 30    | 25    | 34  | 32.5 | 18 | 46  | 13 | 6  | 5.5 | 6.6 | 10.8 | 6.5  | M4 | 19 |
| BK-15    | 15                | 27 | 6  | 32 | 6  | 70  | 48  | 35    | 28    | 40  | 38   | 18 | 54  | 15 | 6  | 5.5 | 6.6 | 11   | 6.5  | M4 | 22 |
| BK-17    | 17                | 35 | 9  | 44 | 7  | 86  | 64  | 43    | 39    | 50  | 55   | 28 | 68  | 19 | 8  | 6.6 | 9   | 14   | 8.5  | M4 | 24 |
| BK-20    | 20                | 35 | 8  | 43 | 8  | 88  | 60  | 44    | 34    | 52  | 50   | 22 | 70  | 19 | 8  | 6.6 | 9   | 14   | 8.5  | M4 | 30 |
| BK-25    | 25                | 42 | 12 | 54 | 9  | 106 | 80  | 53    | 48    | 64  | 70   | 33 | 85  | 22 | 10 | 9   | 11  | 17   | 11   | M5 | 35 |
| BK-30    | 30                | 45 | 14 | 61 | 9  | 128 | 89  | 64    | 51    | 76  | 78   | 33 | 102 | 23 | 11 | 11  | 14  | 20   | 13   | M6 | 40 |
| BK-35    | 35                | 50 | 14 | 67 | 12 | 140 | 96  | 70    | 52    | 88  | 79   | 35 | 114 | 26 | 12 | 11  | 14  | 20   | 13   | M8 | 50 |
| BK-40    | 40                | 61 | 18 | 76 | 15 | 160 | 110 | 80    | 60    | 100 | 90   | 37 | 130 | 33 | 14 | 14  | 18  | 26   | 17.5 | M8 | 50 |

- ① Housing ② Bearing ③ Holding lid ④ Collar ⑤ Seal ⑥ Lock nut ⑦ Hexagon socket-head Setscrew(with set piece)

Support Unit **BF**

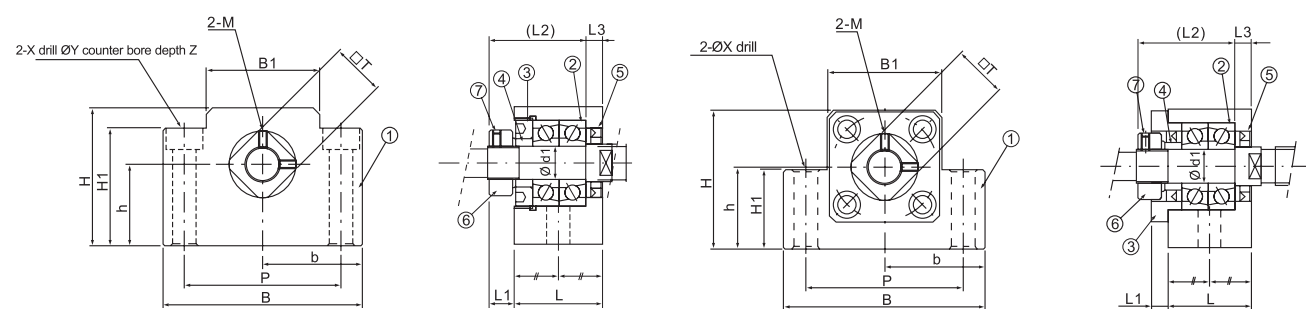


| Part No. | Main Dimensions   |    |     |     |       |       |     |      |    |     |     |     |      |      |         |           |  |
|----------|-------------------|----|-----|-----|-------|-------|-----|------|----|-----|-----|-----|------|------|---------|-----------|--|
|          | Shaft diameter d1 | L  | B   | H   | b     | h     | B1  | H1   | E  | P   | d2  | X   | Y    | Z    | Bearing | Snap ring |  |
|          |                   |    |     |     | ±0.02 | ±0.02 |     |      |    |     |     |     |      |      |         |           |  |
| BF-10    | 8                 | 20 | 60  | 39  | 30    | 22    | 34  | 32.5 | 15 | 46  | 5.5 | 6.6 | 10.8 | 5    | 608ZZ   | S 08      |  |
| BF-12    | 10                | 20 | 60  | 43  | 30    | 25    | 34  | 32.5 | 18 | 46  | 5.5 | 6.6 | 10.8 | 6.5  | 6000ZZ  | S 10      |  |
| BF-15    | 15                | 20 | 70  | 48  | 35    | 28    | 40  | 38   | 18 | 54  | 5.5 | 6.6 | 11   | 6.5  | 6002ZZ  | S 15      |  |
| BF-17    | 17                | 23 | 86  | 64  | 43    | 39    | 50  | 55   | 28 | 68  | 6.6 | 9   | 14   | 8.5  | 6203ZZ  | S 17      |  |
| BF-20    | 20                | 26 | 88  | 60  | 44    | 34    | 52  | 50   | 22 | 70  | 6.6 | 9   | 14   | 8.5  | 6004ZZ  | S 20      |  |
| BF-25    | 25                | 30 | 106 | 80  | 53    | 48    | 64  | 70   | 33 | 85  | 9   | 11  | 17   | 11   | 6205ZZ  | S 25      |  |
| BF-30    | 30                | 32 | 128 | 89  | 64    | 51    | 76  | 78   | 33 | 102 | 11  | 14  | 20   | 13   | 6206ZZ  | S 30      |  |
| BF-35    | 35                | 32 | 140 | 96  | 70    | 52    | 88  | 79   | 35 | 114 | 11  | 14  | 20   | 13   | 6207ZZ  | S 35      |  |
| BF-40    | 40                | 37 | 160 | 110 | 80    | 60    | 100 | 90   | 37 | 130 | 14  | 18  | 26   | 17.5 | 6208ZZ  | S 40      |  |

- ① Housing ② Bearing ③ Snap ring



Support Unit **EK**



EK-6~EK-8

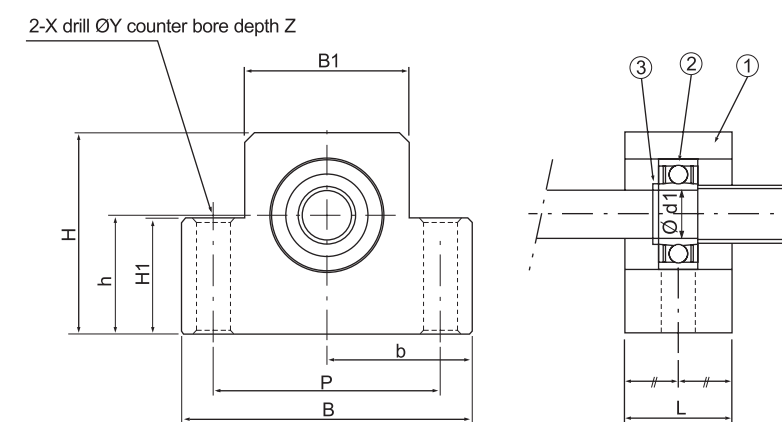
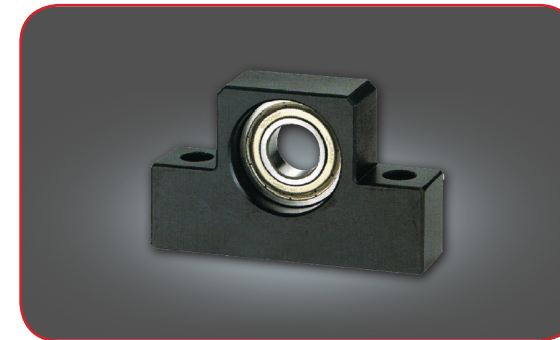
EK-10~EK-20

Unit: mm

| Part No. | Main Dimensions   |    |     |      |     |    |    |       |       |    |    |    |     |     |    |    |    |
|----------|-------------------|----|-----|------|-----|----|----|-------|-------|----|----|----|-----|-----|----|----|----|
|          | Shaft diameter d1 | L  | L1  | L2   | L3  | B  | H  | b     | h     | B1 | H1 | P  | X   | Y   | Z  | M  | T  |
|          |                   |    |     |      |     |    |    | ±0.02 | ±0.02 |    |    |    |     |     |    |    |    |
| EK-6     | 6                 | 20 | 5.5 | 22   | 3.5 | 42 | 25 | 21    | 13    | 18 | 20 | 30 | 5.5 | 9.5 | 11 | M3 | 12 |
| EK-8     | 8                 | 23 | 7   | 26   | 4   | 52 | 32 | 26    | 17    | 25 | 26 | 38 | 6.6 | 11  | 12 | M3 | 14 |
| EK-10    | 10                | 24 | 6   | 29.5 | 6   | 70 | 43 | 35    | 25    | 36 | 24 | 52 | 9   | -   | -  | M3 | 16 |
| EK-12    | 12                | 24 | 6   | 29.5 | 6   | 70 | 43 | 35    | 25    | 36 | 24 | 52 | 9   | -   | -  | M4 | 19 |
| EK-15    | 15                | 25 | 6   | 36   | 5   | 80 | 49 | 40    | 30    | 41 | 25 | 60 | 11  | -   | -  | M4 | 22 |
| EK-20    | 20                | 42 | 10  | 50   | 10  | 95 | 58 | 47.5  | 30    | 56 | 25 | 75 | 11  | -   | -  | M4 | 30 |

- ① Housing ② Bearing ③ Holding lid ④ Collar ⑤ Seal ⑥ Lock nut ⑦ Hexagon socket-head Setscrew(with set piece)

Support Unit **EF**



Unit: mm

| Part No. | Main Dimensions   |    |    |    |       |       |    |    |    |     |     |    |   |        | Bearing | Snap ring |
|----------|-------------------|----|----|----|-------|-------|----|----|----|-----|-----|----|---|--------|---------|-----------|
|          | Shaft diameter d1 | L  | B  | H  | b     | h     | B1 | H1 | P  | X   | Y   | Z  | L |        |         |           |
|          |                   |    |    |    | ±0.02 | ±0.02 |    |    |    |     |     |    |   |        |         |           |
| EF-6     | 6                 | 12 | 42 | 25 | 21    | 13    | 18 | 20 | 30 | 5.5 | 9.5 | 11 |   | 606ZZ  | S 06    |           |
| EF-8     | 6                 | 14 | 52 | 32 | 26    | 17    | 25 | 26 | 38 | 6.6 | 11  | 12 |   | 606ZZ  | S 06    |           |
| EF-10    | 8                 | 20 | 70 | 43 | 35    | 25    | 36 | 24 | 52 | 9   | -   | -  |   | 608ZZ  | S 08    |           |
| EF-12    | 10                | 20 | 70 | 43 | 35    | 25    | 36 | 24 | 52 | 9   | -   | -  |   | 6000ZZ | S 10    |           |
| EF-15    | 15                | 20 | 80 | 49 | 40    | 30    | 41 | 25 | 60 | 9   | -   | -  |   | 6002ZZ | S 15    |           |
| EF-20    | 20                | 26 | 95 | 58 | 47.5  | 30    | 56 | 25 | 75 | 11  | -   | -  |   | 6204ZZ | S 20    |           |

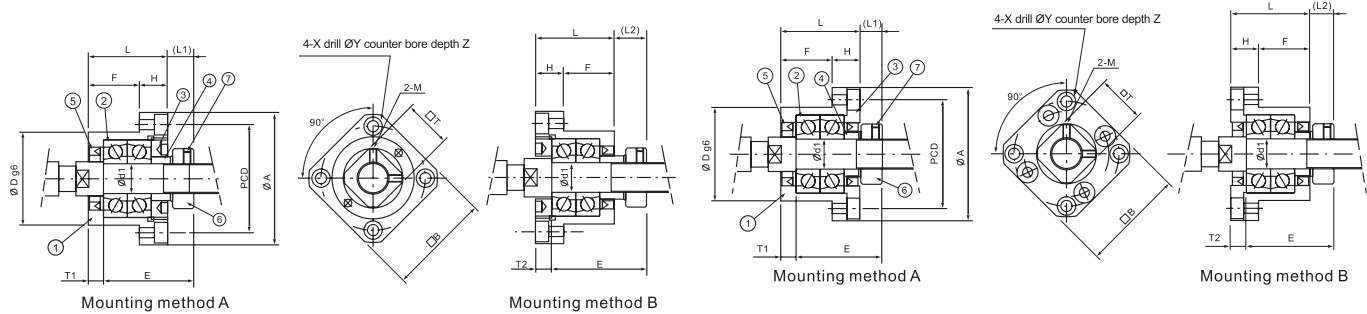
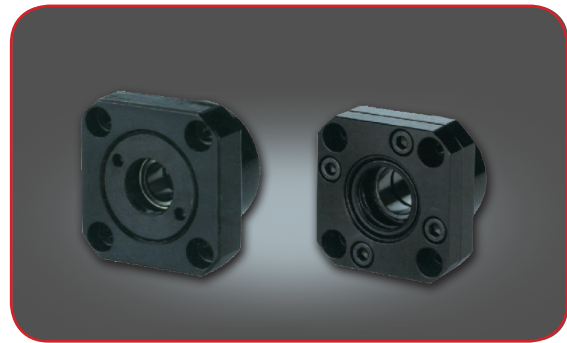
- ① Housing ② Bearing ③ Snap ring

Linear Bush Series  
Slide Unit Series  
Shaft Support Series  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide

Linear Bush Series  
Slide Unit Series  
Shaft Support Series  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide



Support Unit **FK**



FK-6~FK-8

FK-10~FK-30

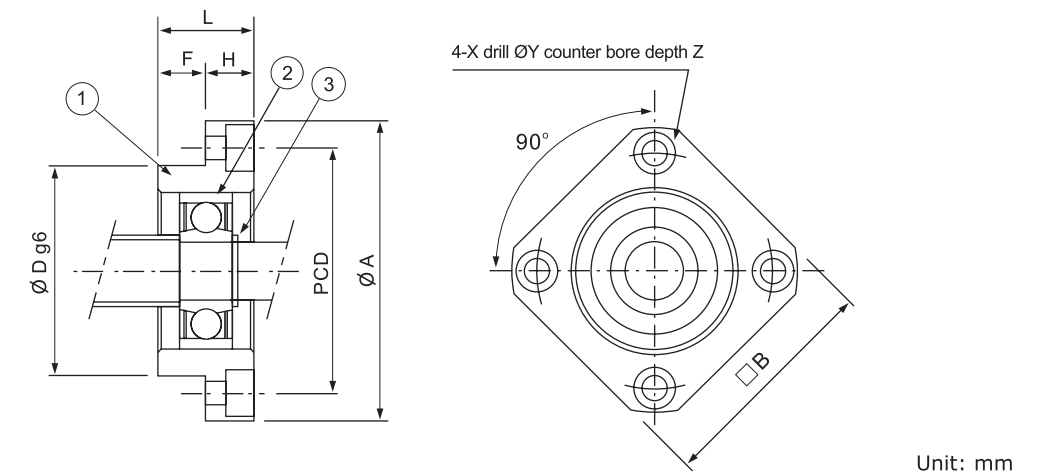
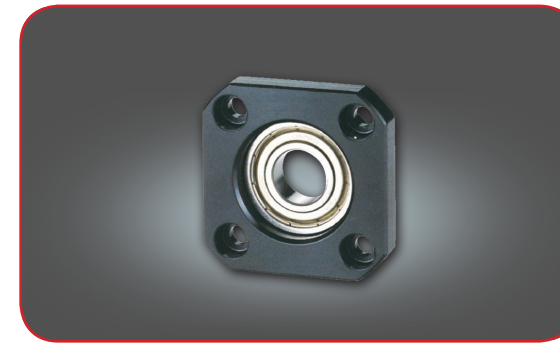
Unit: mm

Main Dimensions

| Part No. | Shaft diameter d1 | L  | H  | F  | E    | Dg6 | A                | PCD | B  | Mounting method A |     | Mounting method B |     | X  | Y   | Z    | M  | T  |    |
|----------|-------------------|----|----|----|------|-----|------------------|-----|----|-------------------|-----|-------------------|-----|----|-----|------|----|----|----|
|          |                   |    |    |    |      |     |                  |     |    | L1                | T1  | L2                | T2  |    |     |      |    |    |    |
|          |                   |    |    |    |      |     |                  |     |    | FK-6              | 6   | 20                | 7   |    |     |      |    |    | 13 |
| FK-8     | 8                 | 23 | 9  | 14 | 26   | 28  | -0.007<br>-0.02  | 43  | 35 | 35                | 7   | 4                 | 10  | 5  | 3.4 | 6.5  | 4  | M3 | 14 |
| FK-10    | 10                | 27 | 10 | 17 | 29.5 | 34  | -0.009<br>-0.025 | 52  | 42 | 42                | 7.5 | 5                 | 8.5 | 6  | 4.5 | 8    | 4  | M3 | 16 |
| FK-12    | 12                | 27 | 10 | 17 | 29.5 | 36  | -0.009<br>-0.025 | 54  | 44 | 44                | 7.5 | 5                 | 8.5 | 6  | 4.5 | 8    | 4  | M4 | 19 |
| FK-15    | 15                | 32 | 15 | 17 | 36   | 40  | -0.009<br>-0.025 | 63  | 50 | 52                | 10  | 6                 | 12  | 8  | 5.5 | 9.5  | 6  | M4 | 22 |
| FK-17    | 17                | 45 | 22 | 23 | 47   | 50  | -0.009<br>-0.025 | 77  | 62 | 61                | 11  | 9                 | 14  | 12 | 6.6 | 11   | 10 | M4 | 24 |
| FK-20    | 20                | 52 | 22 | 30 | 50   | 57  | -0.010<br>-0.029 | 85  | 70 | 68                | 8   | 10                | 12  | 14 | 6.6 | 11   | 10 | M4 | 30 |
| FK-25    | 25                | 57 | 27 | 30 | 60   | 63  | -0.010<br>-0.029 | 98  | 80 | 79                | 13  | 10                | 20  | 17 | 9   | 15   | 13 | M5 | 35 |
| FK-30    | 30                | 62 | 30 | 32 | 61   | 75  | -0.010<br>-0.029 | 117 | 95 | 93                | 11  | 12                | 17  | 18 | 11  | 17.5 | 15 | M6 | 40 |

① Housing ② Bearing ③ Holding lid ④ Collar ⑤ Seal ⑥ Lock nut ⑦ Hexagon socket-head Setscrew(with set piece)

Support Unit **FF**



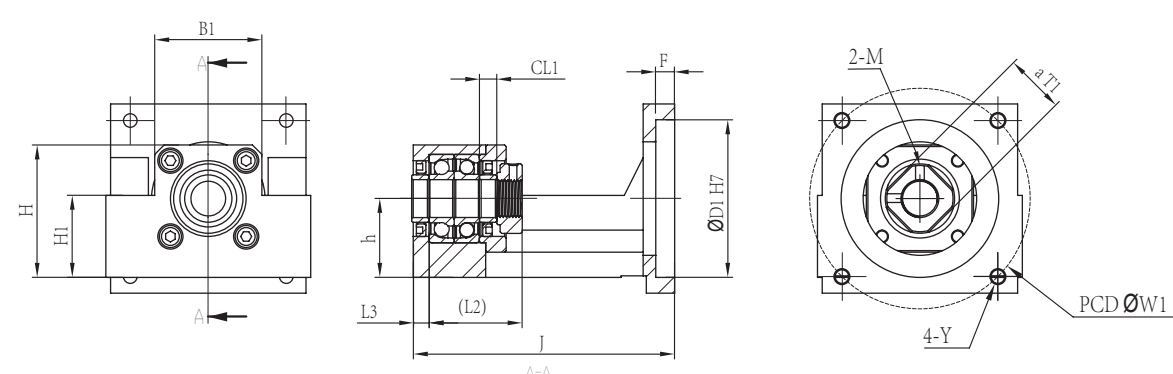
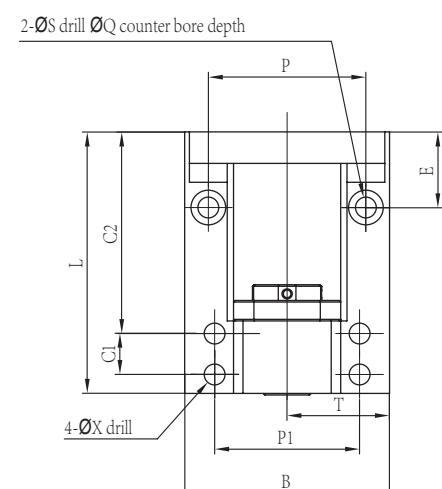
Unit: mm

Main Dimensions

| Part No. | Shaft diameter d1 | L  | H  | F  | Dg6 | A                | PCD | B  | X  | Y   | Z    | Bearing | Snap ring |      |
|----------|-------------------|----|----|----|-----|------------------|-----|----|----|-----|------|---------|-----------|------|
|          |                   |    |    |    |     |                  |     |    |    |     |      |         |           | FF-6 |
| FF-10    | 8                 | 12 | 7  | 5  | 28  | -0.007<br>-0.02  | 43  | 35 | 35 | 3.4 | 6.5  | 4       | 608ZZ     | S 08 |
| FF-12    | 10                | 15 | 7  | 8  | 34  | -0.009<br>-0.025 | 52  | 42 | 42 | 4.5 | 8    | 4       | 6000ZZ    | S 10 |
| FF-15    | 15                | 17 | 9  | 8  | 40  | -0.009<br>-0.025 | 63  | 50 | 52 | 5.5 | 9.5  | 5.5     | 6002ZZ    | S 15 |
| FF-17    | 17                | 20 | 11 | 9  | 50  | -0.009<br>-0.025 | 77  | 62 | 61 | 6.6 | 11   | 6.5     | 6203ZZ    | S 17 |
| FF-20    | 20                | 20 | 11 | 9  | 57  | -0.010<br>-0.029 | 85  | 70 | 68 | 6.6 | 11   | 6.5     | 6204ZZ    | S 20 |
| FF-25    | 25                | 24 | 14 | 10 | 63  | -0.010<br>-0.029 | 98  | 80 | 79 | 9   | 14   | 8.5     | 6205ZZ    | S 25 |
| FF-30    | 30                | 27 | 18 | 9  | 75  | -0.010<br>-0.029 | 117 | 95 | 93 | 11  | 17.5 | 11      | 6206ZZ    | S 30 |

① Housing ② Bearing ③ Snap ring

## MBCB 12



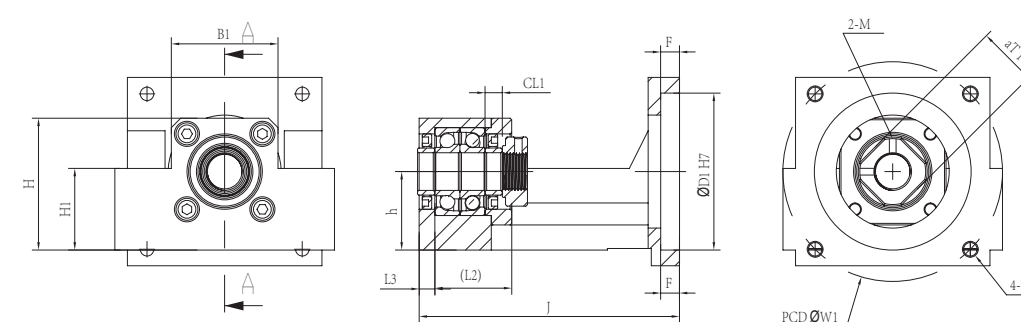
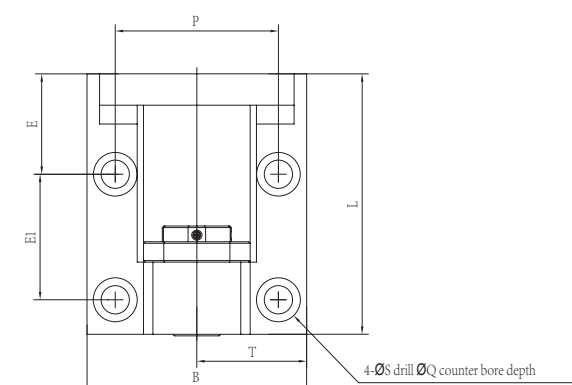
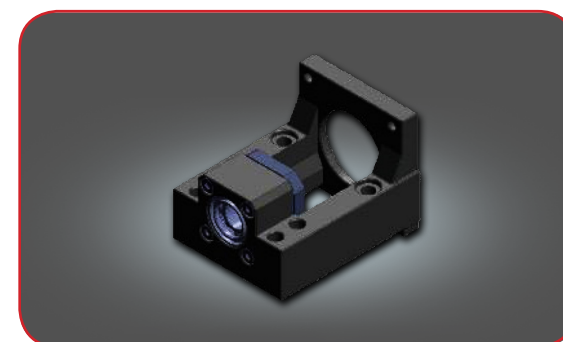
Unit: mm

| Part No.  | Main Dimensions |    |    |    |            |    |    |      |                      |     |      |    |    |    |    |    |
|-----------|-----------------|----|----|----|------------|----|----|------|----------------------|-----|------|----|----|----|----|----|
|           | D1              | W1 | Y  | L  | h<br>±0.02 | B  | P  | T    | Shaft diameter<br>d1 | CL1 | L2   | L3 | H  | H1 | B1 | P1 |
| MBCB12-D  | 50              | 70 | M5 | 83 | 25         | 65 | 50 | 32.5 | 12                   | 5.5 | 29.5 | 5  | 42 | 26 | 34 | 46 |
| MBCB12-DP |                 |    | M4 |    |            |    |    |      |                      |     |      |    |    |    |    |    |

Unit: mm

| Part No.  | Main Dimensions |    |    |     |    |    |   |    |    |    |                | Support Unit<br>Supported-side | Suggest<br>Coupling |
|-----------|-----------------|----|----|-----|----|----|---|----|----|----|----------------|--------------------------------|---------------------|
|           | S               | Q  | E  | X   | C1 | C2 | F | J  | M  | T1 | Weght<br>(kgs) |                                |                     |
| MBCB12-D  | 6.6             | 11 | 24 | 6.6 | 13 | 64 | 6 | 74 | M4 | 19 | 0.79           | BF12                           | SGS 34C             |
| MBCB12-DP |                 |    |    |     |    |    |   |    |    |    | 0.79           |                                |                     |

## MBCE 12



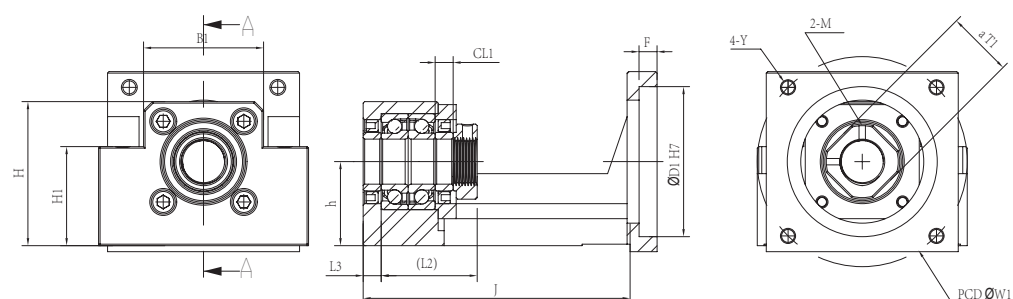
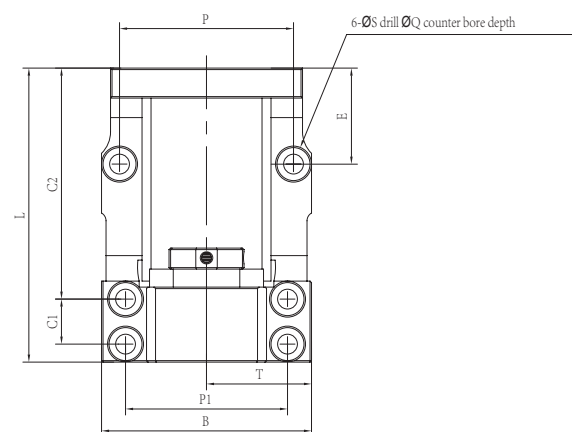
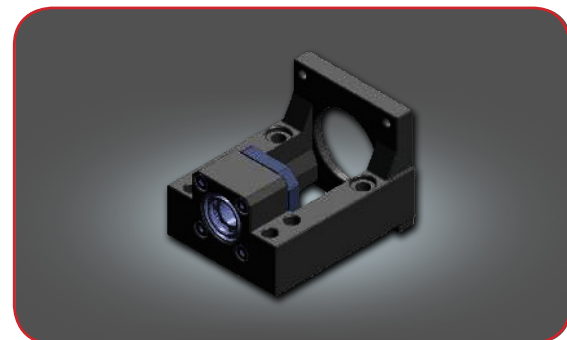
Unit: mm

| Part No.  | Main Dimensions |    |    |    |            |    |    |    |                      |     |      |    |    |    |    |  |
|-----------|-----------------|----|----|----|------------|----|----|----|----------------------|-----|------|----|----|----|----|--|
|           | D1              | W1 | Y  | L  | h<br>±0.02 | B  | P  | T  | Shaft diameter<br>d1 | CL1 | L2   | L3 | H  | H1 | B1 |  |
| MBCE12-D  | 50              | 70 | M5 | 83 | 25         | 70 | 52 | 35 | 12                   | 5.5 | 29.5 | 5  | 42 | 26 | 34 |  |
| MBCE12-DP |                 |    | M4 |    |            |    |    |    |                      |     |      |    |    |    |    |  |

Unit: mm

| Part No.  | Main Dimensions |    |    |    |   |    |    |    |                |              |         | Support Unit<br>Supported-side | Suggest<br>Coupling |
|-----------|-----------------|----|----|----|---|----|----|----|----------------|--------------|---------|--------------------------------|---------------------|
|           | S               | Q  | E  | E1 | F | J  | M  | T1 | Weght<br>(kgs) |              |         |                                |                     |
| MBCE12-D  | 9               | 14 | 32 | 40 | 6 | 74 | M4 | 19 | 0.84           | EF12<br>AF12 | SGS 34C |                                |                     |
| MBCE12-DP |                 |    |    |    |   |    |    |    | 0.86           |              |         |                                |                     |

## MBCB 15



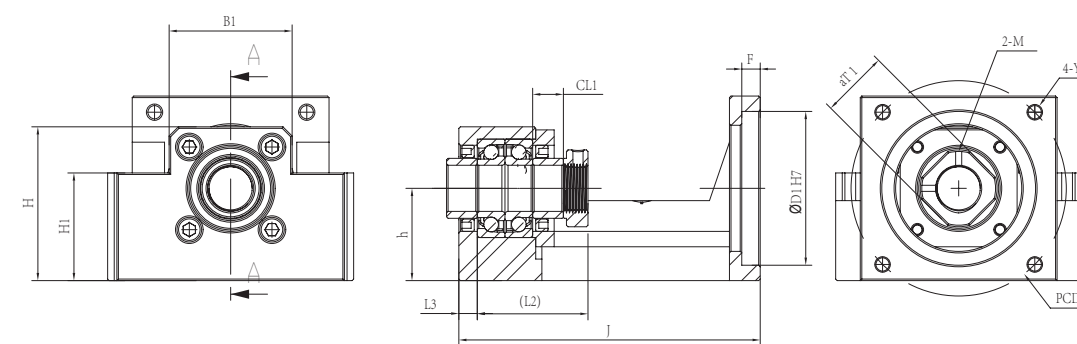
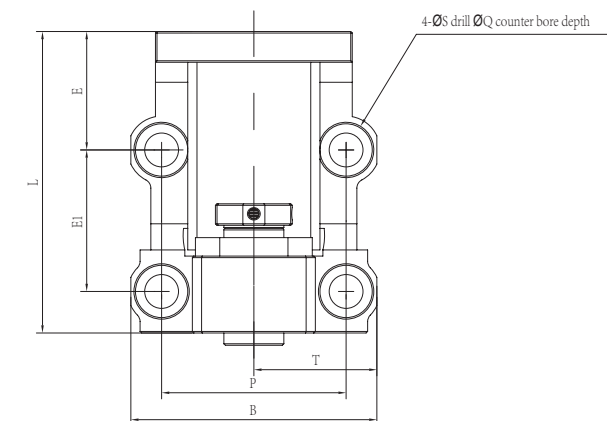
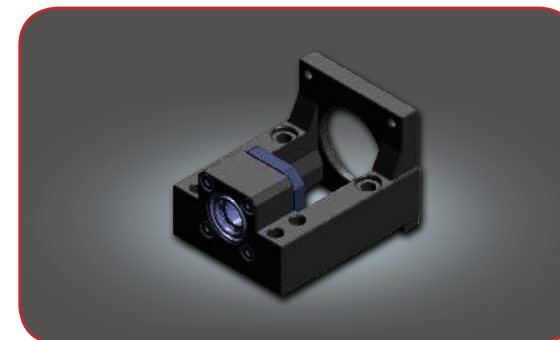
Unit: mm

| Part No.  | Main Dimensions |    |    |     |            |    |    |    |                      |     |    |    |    |    |    |    |
|-----------|-----------------|----|----|-----|------------|----|----|----|----------------------|-----|----|----|----|----|----|----|
|           | D1              | W1 | Y  | L   | h<br>±0.02 | B  | P  | T  | Shaft diameter<br>d1 | CL1 | L2 | L3 | H  | H1 | B1 | P1 |
| MBCB15-D  | 50              | 70 | M5 | 98  | 28         | 70 | 58 | 35 | 15                   | 10  | 36 | 6  | 48 | 33 | 40 | 54 |
| MBCB15-DP |                 |    | M4 |     |            |    |    |    |                      |     |    |    |    |    |    |    |
| MBCB15-E  | 70              | 90 | M6 | 108 | 28         | 70 | 58 | 35 | 15                   | 10  | 36 | 6  | 48 | 33 | 40 | 54 |
| MBCB15-EP |                 |    | M5 |     |            |    |    |    |                      |     |    |    |    |    |    |    |

Unit: mm

| Part No.  | Main Dimensions |    |      |    |    |      |    |    |    |             | Support Unit | Suggest Coupling   |
|-----------|-----------------|----|------|----|----|------|----|----|----|-------------|--------------|--------------------|
|           | S               | Q  | E    | C1 | C2 | F    | J  | M  | T1 | Weght (kgs) |              |                    |
| MBCB15-D  | 6.6             | 11 | 32   | 15 | 77 | 6    | 89 | M4 | 22 | 0.98        | BF15         | SGS 34C<br>SGS 40C |
| MBCB15-DP |                 |    |      |    |    |      |    |    |    |             |              |                    |
| MBCB15-E  |                 |    | 42   | 87 | 97 | 1.39 |    |    |    |             |              |                    |
| MBCB15-EP |                 |    | 1.45 |    |    |      |    |    |    |             |              |                    |

## MBCE 15/MBCS 15/MBCF20/MBCS20



Unit: mm

| Part No.  | Main Dimensions |     |    |     |            |    |    |      |                      |     |    |    |    |    |    |    |    |      |    |   |     |    | Weight (Kgs) |      |
|-----------|-----------------|-----|----|-----|------------|----|----|------|----------------------|-----|----|----|----|----|----|----|----|------|----|---|-----|----|--------------|------|
|           | D1              | W1  | Y  | L   | h<br>±0.02 | B  | P  | T    | Shaft diameter<br>d1 | CL1 | L2 | L3 | H  | H1 | B1 | S  | Q  | E    | E1 | F | J   | M  |              | T1   |
| MBCE15-D  | 50              | 70  | M5 | 98  | 30         | 80 | 60 | 40   | 15                   | 10  | 36 | 6  | 50 | 35 | 40 | 11 | 17 | 38.5 | 46 | 6 | 97  | M4 | □22          | 1.09 |
| MBCE15-DP |                 |     | M4 |     |            |    |    |      |                      |     |    |    |    |    |    |    |    |      |    |   |     |    |              | 1.07 |
| MBCE15-E  | 70              | 90  | M6 | 108 | 30         | 95 | 75 | 47.5 | 15                   | 9   | 47 | 9  | 58 | 45 | 56 | 11 | 17 | 48.5 | 50 | 8 | 124 | M4 | □22          | 1.52 |
| MBCE15-EP |                 |     | M5 |     |            |    |    |      |                      |     |    |    |    |    |    |    |    |      |    |   |     |    |              | 1.52 |
| MBCS15-X  | 80              | 100 | M6 | 140 | 30         | 95 | 75 | 47.5 | 15                   | 9   | 47 | 9  | 58 | 45 | 56 | 11 | 17 | 70   | 50 | 8 | 124 | M4 | □22          | -    |
| MBCF20-X  | 80              | 100 | M6 | 140 | 30         | 95 | 75 | 47.5 | 15                   | 9   | 47 | 9  | 58 | 45 | 56 | 11 | 17 | 70   | 50 | 8 | 124 | M4 | □22          | 2.76 |
| MBCF20-Y  | 95              | 115 | M8 | 141 | 30         | 95 | 75 | 47.5 | 20                   | 11  | 50 | 9  | 58 | 45 | 56 | 11 | 17 | 71   | 50 | 8 | 124 | M4 | □30          | 2.71 |
| MBCF20-YP |                 |     | M6 |     |            |    |    |      |                      |     |    |    |    |    |    |    |    |      |    |   |     |    |              | 2.73 |
| MBCF20-S  | 110             | 130 | M8 | 151 | 30         | 95 | 75 | 47.5 | 20                   | 9   | 57 | 9  | 58 | 45 | 56 | 11 | 17 | 81   | 50 | 8 | 124 | M6 | Ø40          | 3.6  |
| MBCF20-G  |                 | 145 | M6 | 153 |            |    |    |      |                      |     |    |    |    |    |    |    |    | 83   |    |   |     |    |              | 10   |
| MBCS20-X  | 80              | 400 | M6 | 140 | 30         | 95 | 75 | 47.5 | 15                   | 9   | 47 | 9  | 58 | 45 | 56 | 11 | 17 | 70   | 50 | 8 | 124 | M4 | □22          | -    |
| MBCS20-Y  | 95              | 115 | M8 | 141 | 30         | 95 | 75 | 47.5 | 20                   | 9   | 57 | 9  | 58 | 45 | 56 | 11 | 17 | 71   | 50 | 8 | 124 | M6 | Ø40          | 2.81 |
| MBCS20-YP |                 |     | M6 |     |            |    |    |      |                      |     |    |    |    |    |    |    |    |      |    |   |     |    |              | 2.85 |
| MBCS20-S  | 110             | 130 | M8 | 151 | 30         | 95 | 75 | 47.5 | 20                   | 9   | 57 | 9  | 58 | 45 | 56 | 11 | 17 | 81   | 50 | 8 | 124 | M6 | Ø40          | 3.69 |
| MBCS20-G  |                 | 145 | M6 | 153 |            |    |    |      |                      |     |    |    |    |    |    |    |    | 83   |    |   |     |    |              | 10   |

Linear Bush Series

Slide Unit Series

Shaft Support Series

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

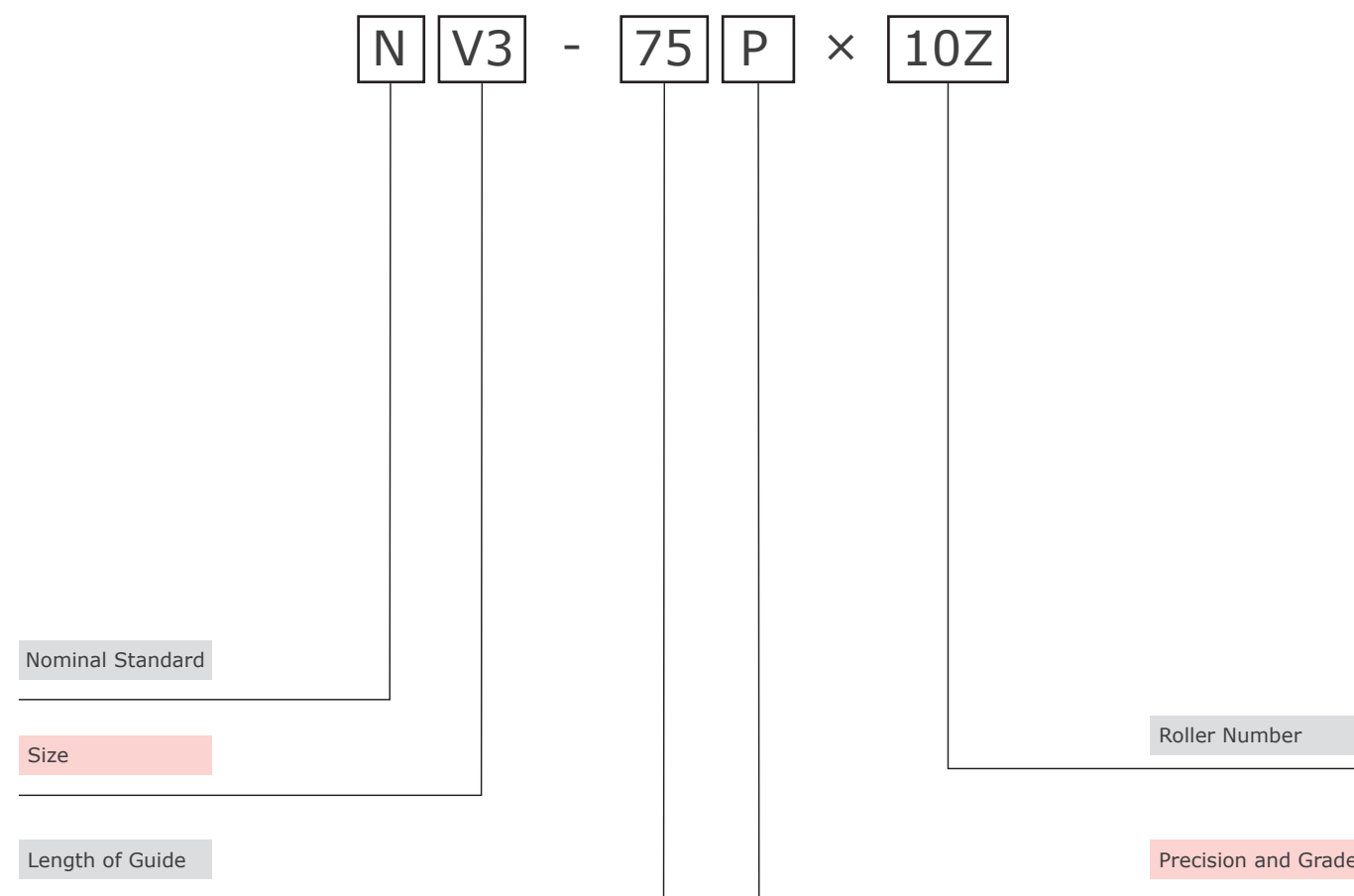
Ballscrew Support Unit

Cross Roller Guide

# 08 *Cross Roller Guide*



## Type number format



Linear Bush Series

Slide Unit Series

Shaft Support Series

Linear Guide

Rectangle Wheel Linear Rail

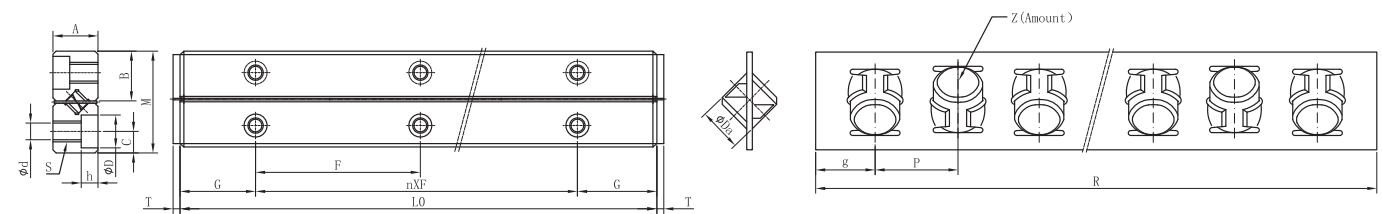
Ball Screw

Ballscrew Support Unit

Cross Roller Guide

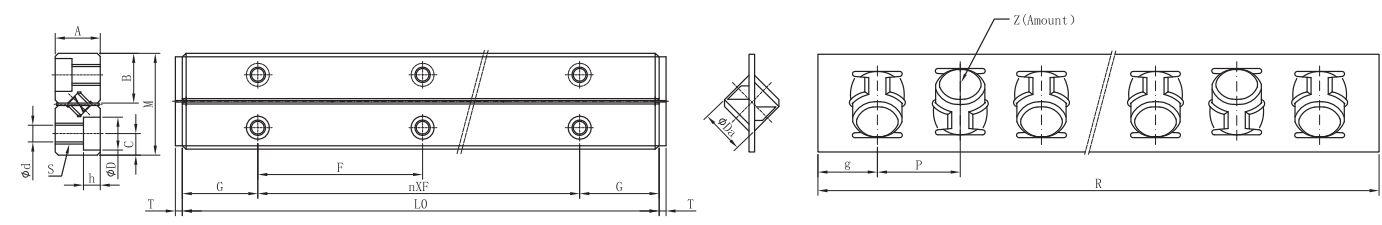
Linear Bush Series  
Slide Unit Series  
Shaft Support Serie  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide  
NV1 Series

# NV1



| Part No.   | Main Dimensions |                  |   |                |               |   |     |     |    |      |   |     |     |     |                      |       |         |    |    |       | Permitting preloading amount \$μm\$ | Basic Rated Load (Each Roller) |  | Quality (Track) kg/m |
|------------|-----------------|------------------|---|----------------|---------------|---|-----|-----|----|------|---|-----|-----|-----|----------------------|-------|---------|----|----|-------|-------------------------------------|--------------------------------|--|----------------------|
|            | Maximum Stroke  | Combination Size |   |                | Assembly Size |   |     |     |    |      |   |     |     |     | Quantity of Roller Z | Cz kN | Cz Z kN |    |    |       |                                     |                                |  |                      |
|            |                 | M                | A | L <sub>c</sub> | nxF           | G | B   | C   | S  | d    | D | h   | T   | Da  |                      |       |         | R  | g  | P     |                                     |                                |  |                      |
| NV1-20x5Z  | 12              | 8.5              | 4 | 20             | 1x10          | 5 | 3.9 | 1.8 | M2 | 1.65 | 3 | 1.4 | 1.6 | 1.5 | 2                    | 2.5   | 14      | 5  | -2 | 0.098 | 0.069                               | 0.11                           |  |                      |
| NV1-30x7Z  | 22              |                  |   | 30             | 2x10          |   |     |     |    |      |   |     |     |     |                      |       | 19      | 7  |    |       |                                     |                                |  |                      |
| NV1-40x10Z | 27              |                  |   | 40             | 3x10          |   |     |     |    |      |   |     |     |     |                      |       | 26.5    | 10 |    |       |                                     |                                |  |                      |
| NV1-50x13Z | 32              |                  |   | 50             | 4x10          |   |     |     |    |      |   |     |     |     |                      |       | 34      | 13 |    |       |                                     |                                |  |                      |
| NV1-60x16Z | 37              |                  |   | 60             | 5x10          |   |     |     |    |      |   |     |     |     |                      |       | 41.5    | 16 |    |       |                                     |                                |  |                      |
| NV1-70x19Z | 42              |                  |   | 70             | 6x10          |   |     |     |    |      |   |     |     |     |                      |       | 49      | 19 |    |       |                                     |                                |  |                      |
| NV1-80x21Z | 52              |                  |   | 80             | 7x10          |   |     |     |    |      |   |     |     |     |                      |       | 54      | 21 |    |       |                                     |                                |  |                      |

# NV2



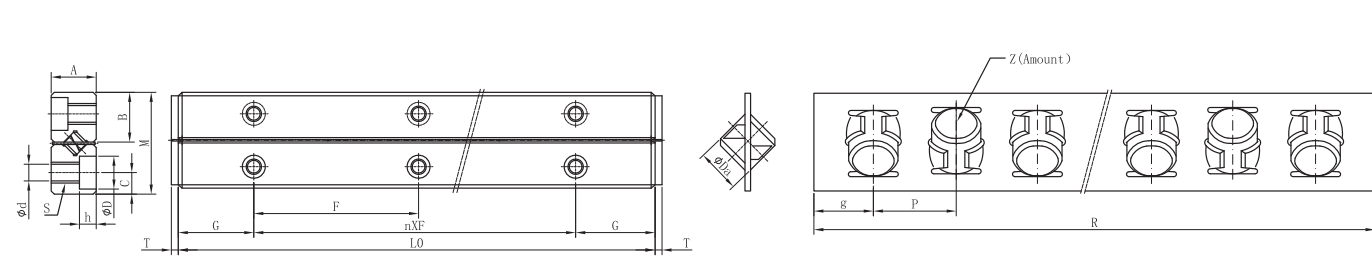
| Part No.    | Main Dimensions |                  |   |                |               |     |     |     |    |      |     |   |     |    |                      |       |         |    |    |    | Permitting preloading amount \$μm\$ | Basic Rated Load (Each Roller) |      | Quality (Track) kg/m |
|-------------|-----------------|------------------|---|----------------|---------------|-----|-----|-----|----|------|-----|---|-----|----|----------------------|-------|---------|----|----|----|-------------------------------------|--------------------------------|------|----------------------|
|             | Maximum Stroke  | Combination Size |   |                | Assembly Size |     |     |     |    |      |     |   |     |    | Quantity of Roller Z | Cz kN | Cz Z kN |    |    |    |                                     |                                |      |                      |
|             |                 | M                | A | L <sub>c</sub> | nxF           | G   | B   | C   | S  | d    | D   | h | T   | Da |                      |       |         | R  | g  | P  |                                     |                                |      |                      |
| NV2-30x5Z   | 12              | 12               | 6 | 30             | 1x15          | 7.5 | 5.6 | 2.5 | M3 | 2.55 | 4.4 | 2 | 1.5 | 2  | 2                    | 2.5   | 4       | 21 | 5  | -3 | 0.176                               | 0.127                          | 0.23 |                      |
| NV2-45x8Z   | 22              |                  |   | 45             | 2x15          |     |     |     |    |      |     |   |     |    |                      |       |         | 33 | 8  |    |                                     |                                |      |                      |
| NV2-60x11Z  | 27              |                  |   | 60             | 3x15          |     |     |     |    |      |     |   |     |    |                      |       |         | 45 | 11 |    |                                     |                                |      |                      |
| NV2-75x13Z  | 32              |                  |   | 75             | 4x15          |     |     |     |    |      |     |   |     |    |                      |       |         | 53 | 13 |    |                                     |                                |      |                      |
| NV2-90x16Z  | 37              |                  |   | 90             | 5x15          |     |     |     |    |      |     |   |     |    |                      |       |         | 65 | 16 |    |                                     |                                |      |                      |
| NV2-105x18Z | 42              |                  |   | 105            | 6x15          |     |     |     |    |      |     |   |     |    |                      |       |         | 73 | 18 |    |                                     |                                |      |                      |
| NV2-120x21Z | 52              |                  |   | 120            | 7x15          |     |     |     |    |      |     |   |     |    |                      |       |         | 85 | 21 |    |                                     |                                |      |                      |

Linear Bush Series  
Slide Unit Series  
Shaft Support Serie  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide  
NV2 Series



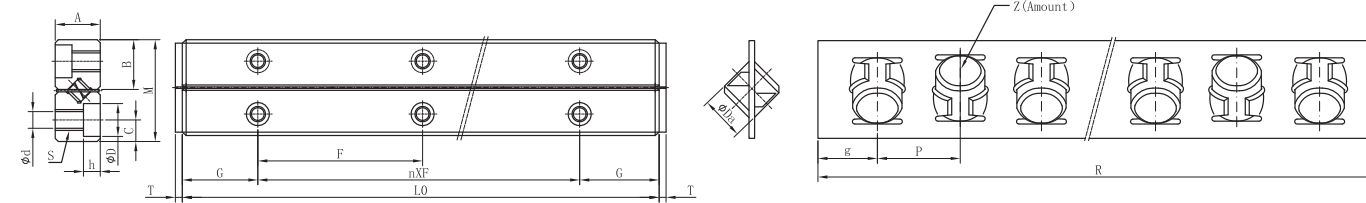
Linear Bush Series  
Slide Unit Series  
Shaft Support Serie  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide  
NV3 Series

## NV3



| Part No.    | Main Dimensions |                  |   |                |               |      |     |     |    |     |   |     |   |    |   |                    |     |       |         | Permitting preloading amount \$μm\$ | Basic Rated Load (Each Roller) |   | Quality (Track) kg/m |
|-------------|-----------------|------------------|---|----------------|---------------|------|-----|-----|----|-----|---|-----|---|----|---|--------------------|-----|-------|---------|-------------------------------------|--------------------------------|---|----------------------|
|             | Maximum Stroke  | Combination Size |   |                | Assembly Size |      |     |     |    |     |   |     |   |    |   | Quantity of Roller | Z   | Cz kN | C, Z kN |                                     |                                |   |                      |
|             |                 | M                | A | L <sub>c</sub> | nxF           | G    | B   | C   | S  | d   | D | h   | T | Da | R |                    |     |       |         |                                     | g                              | P |                      |
| NV3-50×7Z   | 28              | 18               | 8 | 50             | 1×25          |      |     |     |    |     |   |     |   |    |   |                    |     | 36    | 7       |                                     |                                |   |                      |
| NV3-75×10Z  | 48              |                  |   | 75             | 2×25          |      |     |     |    |     |   |     |   |    |   |                    |     | 51    | 10      |                                     |                                |   |                      |
| NV3-100×14Z | 58              |                  |   | 100            | 3×25          |      |     |     |    |     |   |     |   |    |   |                    |     | 71    | 14      |                                     |                                |   |                      |
| NV3-125×17Z | 78              |                  |   | 125            | 4×25          | 12.5 | 8.3 | 3.5 | M4 | 3.3 | 6 | 3.1 | 2 | 3  |   |                    | 86  | 17    |         |                                     |                                |   |                      |
| NV3-150×21Z | 88              |                  |   | 150            | 5×15          |      |     |     |    |     |   |     |   |    |   |                    | 106 | 21    |         |                                     |                                |   |                      |
| NV3-175×24Z | 108             |                  |   | 175            | 6×15          |      |     |     |    |     |   |     |   |    |   |                    | 121 | 24    |         |                                     |                                |   |                      |
| NV3-200×28Z | 118             |                  |   | 200            | 7×15          |      |     |     |    |     |   |     |   |    |   |                    | 114 | 28    |         |                                     |                                |   |                      |
| NV3-225×31Z | 138             |                  |   | 225            | 8×15          |      |     |     |    |     |   |     |   |    |   |                    | 156 | 31    |         |                                     |                                |   |                      |

## NV4



| Part No.    | Main Dimensions |                  |    |                |               |    |      |     |    |     |   |     |   |    |   |                    |     |       |         | Permitting preloading amount \$μm\$ | Basic Rated Load (Each Roller) |   | Quality (Track) kg/m |
|-------------|-----------------|------------------|----|----------------|---------------|----|------|-----|----|-----|---|-----|---|----|---|--------------------|-----|-------|---------|-------------------------------------|--------------------------------|---|----------------------|
|             | Maximum Stroke  | Combination Size |    |                | Assembly Size |    |      |     |    |     |   |     |   |    |   | Quantity of Roller | Z   | Cz kN | C, Z kN |                                     |                                |   |                      |
|             |                 | M                | A  | L <sub>c</sub> | nxF           | G  | B    | C   | S  | d   | D | h   | T | Da | R |                    |     |       |         |                                     | g                              | P |                      |
| NV4-80×7Z   | 58              |                  |    | 80             | 1×40          |    |      |     |    |     |   |     |   |    |   |                    |     | 51    | 7       |                                     |                                |   |                      |
| NV4-120×11Z | 82              |                  |    | 120            | 2×40          |    |      |     |    |     |   |     |   |    |   |                    |     | 79    | 11      |                                     |                                |   |                      |
| NV4-160×15Z | 106             |                  |    | 160            | 3×40          |    |      |     |    |     |   |     |   |    |   |                    |     | 107   | 15      |                                     |                                |   |                      |
| NV4-200×19Z | 130             |                  |    | 200            | 4×40          |    |      |     |    |     |   |     |   |    |   |                    |     | 135   | 19      |                                     |                                |   |                      |
| NV4-240×23Z | 154             |                  |    | 240            | 5×40          |    |      |     |    |     |   |     |   |    |   |                    |     | 163   | 23      |                                     |                                |   |                      |
| NV4-280×27Z | 178             | 22               | 11 | 280            | 6×40          | 20 | 10.2 | 4.5 | M5 | 4.3 | 8 | 4.2 | 2 | 4  |   |                    | 191 | 27    |         |                                     |                                |   |                      |
| NV4-320×31Z | 202             |                  |    | 320            | 7×40          |    |      |     |    |     |   |     |   |    |   |                    |     | 219   | 31      |                                     |                                |   |                      |
| NV4-360×35Z | 226             |                  |    | 360            | 8×40          |    |      |     |    |     |   |     |   |    |   |                    |     | 247   | 35      |                                     |                                |   |                      |
| NV4-400×39Z | 250             |                  |    | 400            | 9×40          |    |      |     |    |     |   |     |   |    |   |                    |     | 275   | 39      |                                     |                                |   |                      |
| NV4-440×43Z | 274             |                  |    | 440            | 10×40         |    |      |     |    |     |   |     |   |    |   |                    |     | 303   | 43      |                                     |                                |   |                      |
| NV4-480×47Z | 298             |                  |    | 480            | 11×40         |    |      |     |    |     |   |     |   |    |   |                    |     | 331   | 47      |                                     |                                |   |                      |

Linear Bush Series  
Slide Unit Series  
Shaft Support Serie  
Linear Guide  
Rectangle Wheel Linear Rail  
Ball Screw  
Ball Screw Support Unit  
Cross Roller Guide  
NV4 Series

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

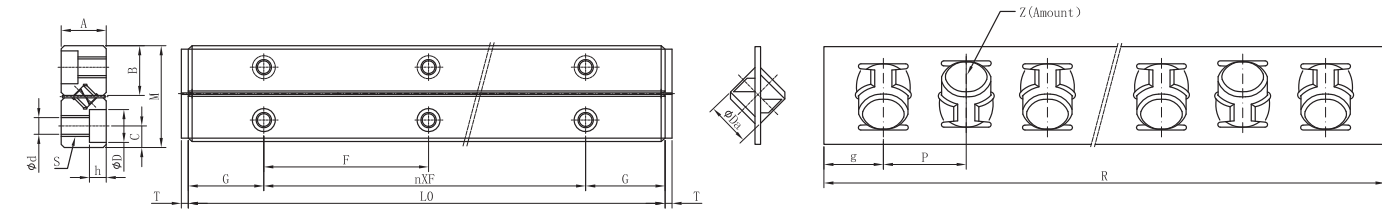
Rectangle Wheel Linear Rail

Ball Screw

Ball Screw Support Unit

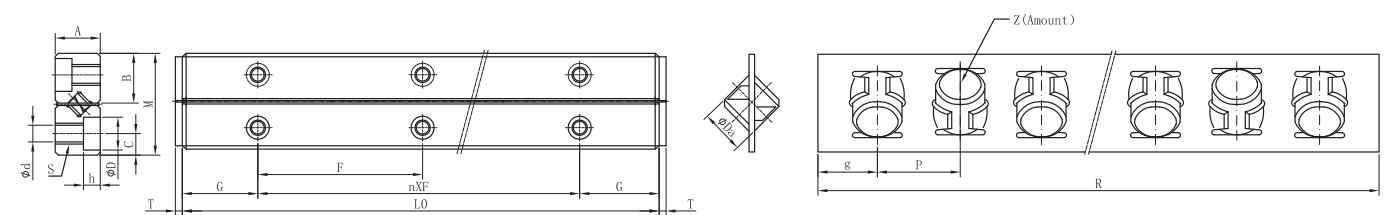
Cross Roller Guide  
NV6 Series

# NV6



| Part No.    | Main Dimensions |                  |    |                |               |    |      |   |    |     |     |     |     |    |   |    |     |    |    |                    | Permitting preloading amount \$ \mu\text{m} \$ | Basic Rated Load (Each Roller) |         | Quality (Track) kg/m |
|-------------|-----------------|------------------|----|----------------|---------------|----|------|---|----|-----|-----|-----|-----|----|---|----|-----|----|----|--------------------|--|--------------------------------|---------|----------------------|
|             | Maximum Stroke  | Combination Size |    |                | Assembly Size |    |      |   |    |     |     |     |     |    |   |    |     |    |    | Quantity of Roller |  | Cz kN                          | C, Z kN |                      |
|             |                 | M                | A  | L <sub>c</sub> | nxF           | G  | B    | C | S  | d   | D   | h   | T   | Da | R | g  | P   | Z  |    |                    |  |                                |         |                      |
| NV6-100x7Z  | 56              | 30               | 15 | 100            | 1x50          | 25 | 14.4 | 6 | M6 | 5.2 | 9.5 | 5.2 | 3.2 | 6  | 6 | 10 | 72  | 7  | -7 | 1.91               | 1.76   | 1.5                            |         |                      |
| NV6-150x10Z | 96              |                  |    | 150            | 2x50          |    |      |   |    |     |     |     |     |    |   |    | 102 | 10 |    |                    |  |                                |         |                      |
| NV6-200x13Z | 136             |                  |    | 200            | 3x50          |    |      |   |    |     |     |     |     |    |   |    | 132 | 13 |    |                    |  |                                |         |                      |
| NV6-250x17Z | 156             |                  |    | 250            | 4x50          |    |      |   |    |     |     |     |     |    |   |    | 172 | 17 |    |                    |  |                                |         |                      |
| NV6-300x20Z | 196             |                  |    | 300            | 5x50          |    |      |   |    |     |     |     |     |    |   |    | 202 | 20 |    |                    |  |                                |         |                      |
| NV6-350x24Z | 216             |                  |    | 350            | 6x50          |    |      |   |    |     |     |     |     |    |   |    | 242 | 24 |    |                    |  |                                |         |                      |
| NV6-400x27Z | 256             |                  |    | 400            | 7x50          |    |      |   |    |     |     |     |     |    |   |    | 272 | 27 |    |                    |  |                                |         |                      |
| NV6-450x31Z | 276             |                  |    | 450            | 8x50          |    |      |   |    |     |     |     |     |    |   |    | 312 | 31 |    |                    |  |                                |         |                      |
| NV6-500x34Z | 316             |                  |    | 500            | 9x50          |    |      |   |    |     |     |     |     |    |   |    | 342 | 34 |    |                    |  |                                |         |                      |
| NV6-550x38Z | 336             |                  |    | 550            | 10x50         |    |      |   |    |     |     |     |     |    |   |    | 382 | 38 |    |                    |  |                                |         |                      |
| NV6-600x41Z | 376             |                  |    | 600            | 11x50         |    |      |   |    |     |     |     |     |    |   |    | 412 | 41 |    |                    |  |                                |         |                      |

# NV9



| Part No.     | Main Dimensions |                  |    |                |               |    |      |   |    |     |      |     |   |    |   |     |    |     |    |                    | Permitting preloading amount \$ \mu\text{m} \$ | Basic Rated Load (Each Roller) |         | Quality (Track) kg/m |
|--------------|-----------------|------------------|----|----------------|---------------|----|------|---|----|-----|------|-----|---|----|---|-----|----|-----|----|--------------------|--|--------------------------------|---------|----------------------|
|              | Maximum Stroke  | Combination Size |    |                | Assembly Size |    |      |   |    |     |      |     |   |    |   |     |    |     |    | Quantity of Roller |  | Cz kN                          | C, Z kN |                      |
|              |                 | M                | A  | L <sub>c</sub> | nxF           | G  | B    | C | S  | d   | D    | h   | T | Da | R | g   | P  | Z   |    |                    |  |                                |         |                      |
| NV9-200x10Z  | 118             | 40               | 20 | 200            | 1x100         | 50 | 19.2 | 8 | M8 | 6.8 | 10.5 | 6.2 | 4 | 9  | 9 | 7.5 | 14 | 141 | 10 | -10                | 4.31   | 4.36                           | 3.2     |                      |
| NV9-300x15Z  | 178             |                  |    | 300            | 2x100         |    |      |   |    |     |      |     |   |    |   |     |    | 211 | 15 |                    |  |                                |         |                      |
| NV9-400x20Z  | 238             |                  |    | 400            | 3x100         |    |      |   |    |     |      |     |   |    |   |     |    | 281 | 20 |                    |  |                                |         |                      |
| NV9-500x25Z  | 298             |                  |    | 500            | 4x100         |    |      |   |    |     |      |     |   |    |   |     |    | 351 | 25 |                    |  |                                |         |                      |
| NV9-600x30Z  | 358             |                  |    | 600            | 5x100         |    |      |   |    |     |      |     |   |    |   |     |    | 421 | 30 |                    |  |                                |         |                      |
| NV9-700x35Z  | 418             |                  |    | 700            | 6x100         |    |      |   |    |     |      |     |   |    |   |     |    | 491 | 35 |                    |  |                                |         |                      |
| NV9-800x40Z  | 478             |                  |    | 800            | 7x100         |    |      |   |    |     |      |     |   |    |   |     |    | 561 | 40 |                    |  |                                |         |                      |
| NV9-900x45Z  | 538             |                  |    | 900            | 8x100         |    |      |   |    |     |      |     |   |    |   |     |    | 631 | 45 |                    |  |                                |         |                      |
| NV9-1000x50Z | 598             |                  |    | 1000           | 9x100         |    |      |   |    |     |      |     |   |    |   |     |    | 701 | 50 |                    |  |                                |         |                      |

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

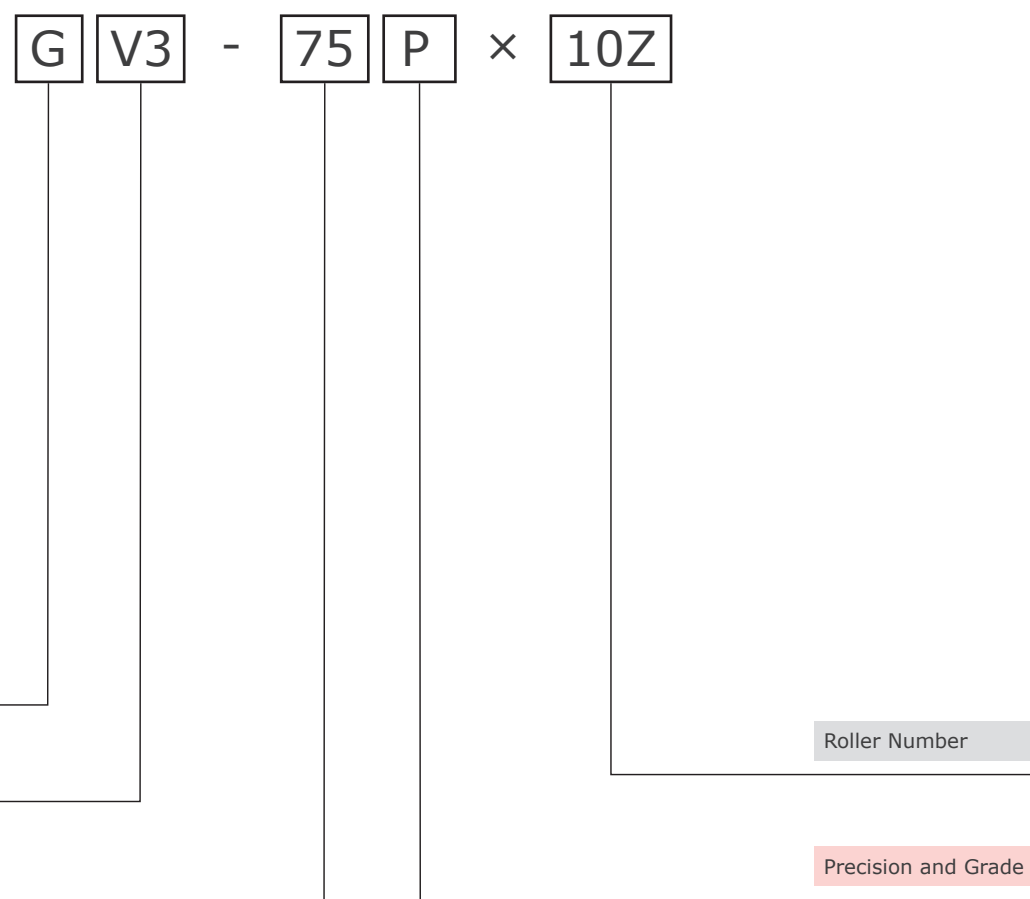
Rectangle Wheel Linear Rail

Ball Screw

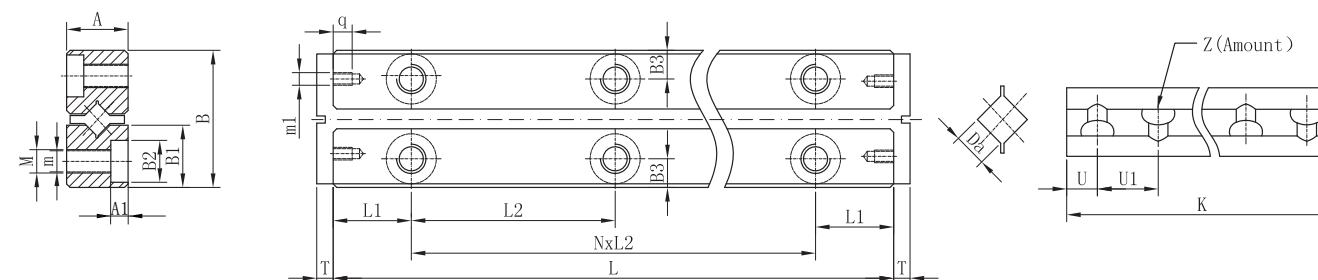
Ball Screw Support Unit

Cross Roller Guide  
NV9 Series

## Type number format



## GV3-



| Part No.    | Main Dimensions |                  |   |                |               |      |     |     |    |     |    |     |     |    |     |     |          |            |    | Quantity of Roller | Permitting preloading amount<br>§<br>μm | Basic Rated Load (Each Roller) |       |      | Quality (Track)<br>kg/m |
|-------------|-----------------|------------------|---|----------------|---------------|------|-----|-----|----|-----|----|-----|-----|----|-----|-----|----------|------------|----|--------------------|---|--------------------------------|-------|------|-------------------------|
|             | Maximum Stroke  | Combination Size |   |                | Assembly Size |      |     |     |    |     |    |     |     |    |     | Z   | Cz<br>kN | C, Z<br>kN |    |                    |   |                                |       |      |                         |
|             |                 | B                | A | L <sub>c</sub> | NxL2F         | L1   | B1  | B3  | M  | m   | B2 | A1  | T   | Da | K   |     |          |            | U  |                    |   | U1                             | q     | m1   |                         |
| GV3-50x7Z   | 28              |                  |   | 50             | 1x25          |      |     |     |    |     |    |     |     |    |     |     |          |            |    |                    | 7                                       |                                |       |      |                         |
| GV3-75x10Z  | 48              |                  |   | 75             | 2x25          |      |     |     |    |     |    |     |     |    |     |     |          |            |    |                    | 10                                      |                                |       |      |                         |
| GV3-100x14Z | 58              |                  |   | 100            | 3x25          |      |     |     |    |     |    |     |     |    |     |     |          |            |    |                    | 14                                      |                                |       |      |                         |
| GV3-125x17Z | 78              |                  |   | 125            | 4x25          |      |     |     |    |     |    |     |     |    |     |     |          |            |    |                    | 17                                      |                                |       |      |                         |
| GV3-150x21Z | 88              | 18               | 8 | 150            | 5x25          | 12.5 | 8.3 | 3.5 | M4 | 3.3 | 6  | 3.2 | 2.5 | 3  | 106 | 2.5 | 3        | 3          | M3 | 21                 | -4                                      | 0.363                          | 0.275 | 0.45 |                         |
| GV3-175x24Z | 108             |                  |   | 175            | 6x25          |      |     |     |    |     |    |     |     |    | 121 |     |          |            |    | 24                 |   |                                |       |      |                         |
| GV3-200x28Z | 118             |                  |   | 200            | 7x25          |      |     |     |    |     |    |     |     |    | 141 |     |          |            |    | 28                 |   |                                |       |      |                         |
| GV3-225x31Z | 138             |                  |   | 225            | 8x25          |      |     |     |    |     |    |     |     |    | 156 |     |          |            |    | 31                 |   |                                |       |      |                         |
| GV3-250x35Z | 148             |                  |   | 250            | 9x25          |      |     |     |    |     |    |     |     |    | 176 |     |          |            |    | 35                 |   |                                |       |      |                         |

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ball screw Support Unit

Cross Roller Guide

GV6- Series

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

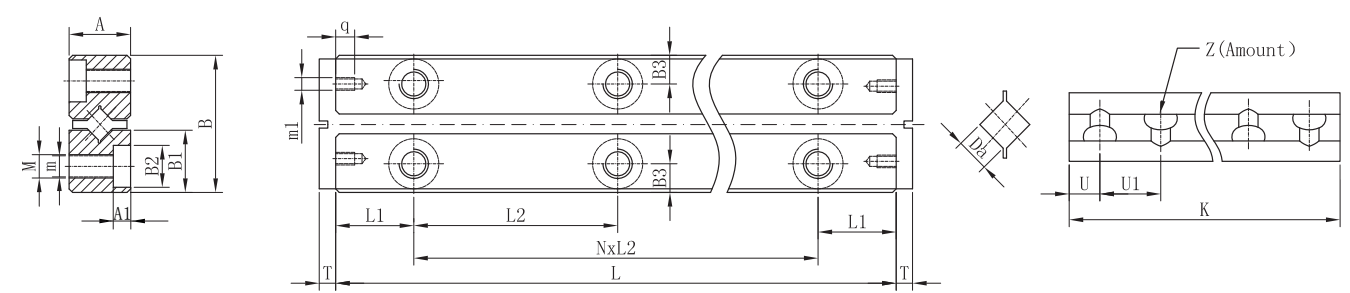
Rectangle Wheel Linear Rail

Ball Screw

Ball screw Support Unit

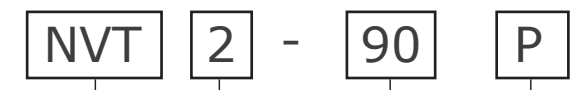
Cross Roller Guide

# GV6-



| Part No.   | Main Dimensions |                  |    |     |       |               |      |    |    |     |     |    |    |     |     |   |    |                         |          |                        | Permitting preloading amount<br>s<br>μm | Basic Rated Load (Each Roller) |     | Quality (Track)<br>kg/m |
|------------|-----------------|------------------|----|-----|-------|---------------|------|----|----|-----|-----|----|----|-----|-----|---|----|-------------------------|----------|------------------------|---|--------------------------------|-----|-------------------------|
|            | Maximum Stroke  | Combination Size |    |     |       | Assembly Size |      |    |    |     |     |    |    |     |     |   |    | Quantity of Roller<br>Z | Cz<br>kN | C <sub>s</sub> Z<br>kN |   |                                |     |                         |
|            |                 | B                | A  | L   | NxL2  | L1            | B    | B3 | M  | m   | B2  | M1 | L3 | U   | A1  | T | Da |                         |          |                        |   |                                |     |                         |
| GV6-100x7Z | 56              |                  |    | 100 | 1x50  |               |      |    |    |     |     |    |    |     |     |   |    |                         |          | 7                      |   |                                |     |                         |
| GV6-150x7Z | 96              |                  |    | 150 | 2x50  |               |      |    |    |     |     |    |    |     |     |   |    |                         |          | 10                     |   |                                |     |                         |
| GV6-200x7Z | 136             |                  |    | 200 | 3x50  |               |      |    |    |     |     |    |    |     |     |   |    |                         |          | 13                     |   |                                |     |                         |
| GV6-250x7Z | 156             |                  |    | 250 | 4x50  |               |      |    |    |     |     |    |    |     |     |   |    |                         |          | 17                     |   |                                |     |                         |
| GV6-300x7Z | 196             |                  |    | 300 | 5x50  |               |      |    |    |     |     |    |    |     |     |   |    |                         |          | 20                     |   |                                |     |                         |
| GV6-350x7Z | 216             | 31               | 15 | 350 | 6x50  | 25            | 13.9 | 6  | M6 | 5.2 | 9.5 | M5 | 9  | 6.9 | 5.2 | 3 | 6  |                         | 24       | -7                     | 1.91                                    | 1.76                           | 1.5 |                         |
| GV6-400x7Z | 256             |                  |    | 400 | 7x50  |               |      |    |    |     |     |    |    |     |     |   |    |                         |          | 27                     |   |                                |     |                         |
| GV6-450x7Z | 276             |                  |    | 450 | 8x50  |               |      |    |    |     |     |    |    |     |     |   |    |                         |          | 31                     |   |                                |     |                         |
| GV6-500x7Z | 316             |                  |    | 500 | 9x50  |               |      |    |    |     |     |    |    |     |     |   |    |                         |          | 34                     |   |                                |     |                         |
| GV6-550x7Z | 336             |                  |    | 550 | 10x50 |               |      |    |    |     |     |    |    |     |     |   |    |                         |          | 38                     |   |                                |     |                         |
| GV6-600x7Z | 376             |                  |    | 600 | 11x50 |               |      |    |    |     |     |    |    |     |     |   |    |                         |          | 41                     |   |                                |     |                         |

## Type number format



|                     |     |
|---------------------|-----|
| Nominal Standard    | NVT |
| Size                | 2   |
| Length of Guide     | 90  |
| Precision and Grade | P   |

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

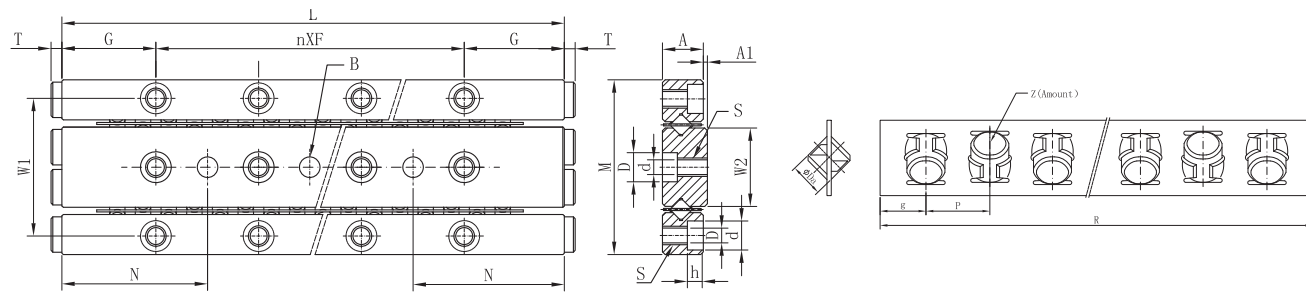
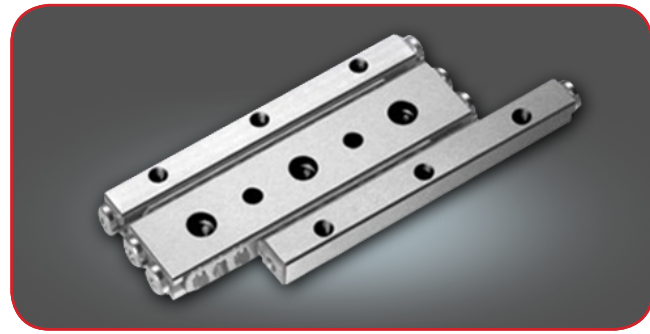
Rectangle Wheel Linear Rail

Ball Screw

Ball screw Support Unit

Cross Roller Guide  
NVT1 - Series

## NVT1-



| Part No. | Main Dimensions |                  |   |               |      |   |      |     |     |    |      |   |    |     |   |     |     |   |   |    |    |      |    | Quantity of Roller | Permitting preloading amount<br>S<br>μm | Basic Rated Load (Each Roller) |      |  | Quality (Track) |
|----------|-----------------|------------------|---|---------------|------|---|------|-----|-----|----|------|---|----|-----|---|-----|-----|---|---|----|----|------|----|--------------------|---|--------------------------------|------|--|-----------------|
|          | Maximum Stroke  | Combination Size |   | Assembly Size |      |   |      |     |     |    |      |   |    |     |   |     |     |   | Z | Cz | Cz | Cz   |    |                    |   |                                |      |  |                 |
|          |                 | M                | A | L             | nxF  | G | W1   | W2  | T   | N  | d    | D | S  | A1  | B | h   | Da  | R |   |    |    |      | g  |                    |   | p                              | kg/m |  |                 |
| NVT1-20  | 12              |                  |   | 20            | 1×10 |   |      |     |     |    |      |   |    |     |   |     |     |   |   |    |    | 14   | 5  |                    |   |                                |      |  |                 |
| NVT1-30  | 22              |                  |   | 30            | 2×10 |   |      |     |     |    |      |   |    |     |   |     |     |   |   |    |    | 19   | 7  |                    |   |                                |      |  |                 |
| NVT1-40  | 27              |                  |   | 40            | 3×10 |   |      |     |     |    |      |   |    |     |   |     |     |   |   |    |    | 26.5 | 10 |                    |   |                                |      |  |                 |
| NVT1-50  | 32              | 17               | 4 | 50            | 4×10 | 5 | 13.4 | 7.8 | 1.5 | 10 | 1.65 | 3 | M2 | 0.5 | 2 | 1.4 | 1.5 |   |   |    | 34 | 2.5  | 13 | -2                 | 0.13                                    | 0.15                           | 0.12 |  |                 |
| NVT1-60  | 37              |                  |   | 60            | 5×10 |   |      |     |     |    |      |   |    |     |   |     |     |   |   |    |    | 41.5 | 16 |                    |   |                                |      |  |                 |
| NVT1-70  | 42              |                  |   | 70            | 6×10 |   |      |     |     |    |      |   |    |     |   |     |     |   |   |    |    | 49   | 19 |                    |   |                                |      |  |                 |
| NVT1-80  | 52              |                  |   | 80            | 7×10 |   |      |     |     |    |      |   |    |     |   |     |     |   |   |    |    | 54   | 21 |                    |   |                                |      |  |                 |

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

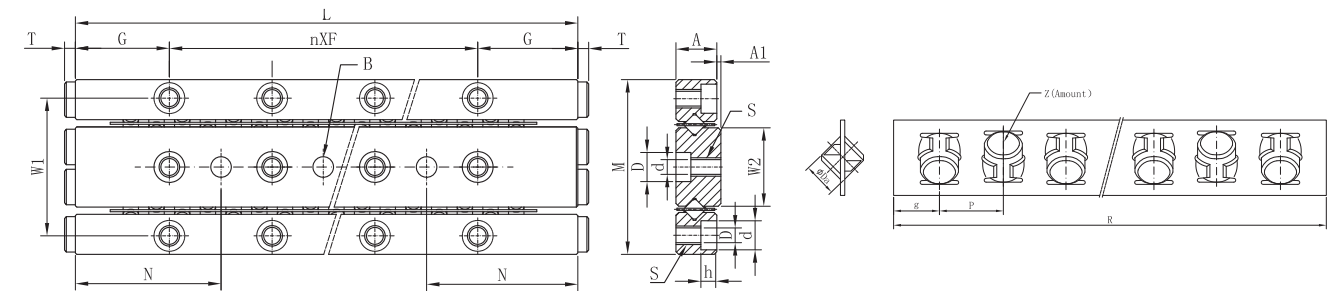
Rectangle Wheel Linear Rail

Ball Screw

Ball screw Support Unit

Cross Roller Guide  
NVT2 - Series

## NVT2-



| Part No. | Main Dimensions |                  |   |               |      |     |    |    |     |    |      |     |    |     |   |   |    |   |   |    |    |     |    | Quantity of Roller | Permitting preloading amount<br>S<br>μm | Basic Rated Load (Each Roller) |      |  | Quality (Track) |
|----------|-----------------|------------------|---|---------------|------|-----|----|----|-----|----|------|-----|----|-----|---|---|----|---|---|----|----|-----|----|--------------------|---|--------------------------------|------|--|-----------------|
|          | Maximum Stroke  | Combination Size |   | Assembly Size |      |     |    |    |     |    |      |     |    |     |   |   |    |   | Z | Cz | Cz | Cz  |    |                    |   |                                |      |  |                 |
|          |                 | M                | A | L             | nxF  | G   | W1 | W2 | T   | N  | d    | D   | S  | A1  | B | h | Da | R |   |    |    |     | g  |                    |   | p                              | kg/m |  |                 |
| NVT2-30  | 18              |                  |   | 30            | 1×15 |     |    |    |     |    |      |     |    |     |   |   |    |   |   |    |    | 21  | 5  |                    |   |                                |      |  |                 |
| NVT2-45  | 24              |                  |   | 45            | 2×15 |     |    |    |     |    |      |     |    |     |   |   |    |   |   |    |    | 33  | 8  |                    |   |                                |      |  |                 |
| NVT2-60  | 30              |                  |   | 60            | 3×15 |     |    |    |     |    |      |     |    |     |   |   |    |   |   |    |    | 45  | 11 |                    |   |                                |      |  |                 |
| NVT2-75  | 44              | 24               | 6 | 75            | 4×15 | 7.5 | 19 | 11 | 1.5 | 15 | 2.55 | 4.4 | M3 | 0.5 | 3 | 2 | 2  |   |   |    | 53 | 2.5 | 4  | -3                 | 0.3                                     | 0.298                          | 0.24 |  |                 |
| NVT2-90  | 50              |                  |   | 90            | 5×15 |     |    |    |     |    |      |     |    |     |   |   |    |   |   |    |    | 65  | 16 |                    |   |                                |      |  |                 |
| NVT2-105 | 64              |                  |   | 105           | 6×15 |     |    |    |     |    |      |     |    |     |   |   |    |   |   |    |    | 73  | 18 |                    |   |                                |      |  |                 |
| NVT2-120 | 70              |                  |   | 120           | 7×15 |     |    |    |     |    |      |     |    |     |   |   |    |   |   |    |    | 85  | 21 |                    |   |                                |      |  |                 |



Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

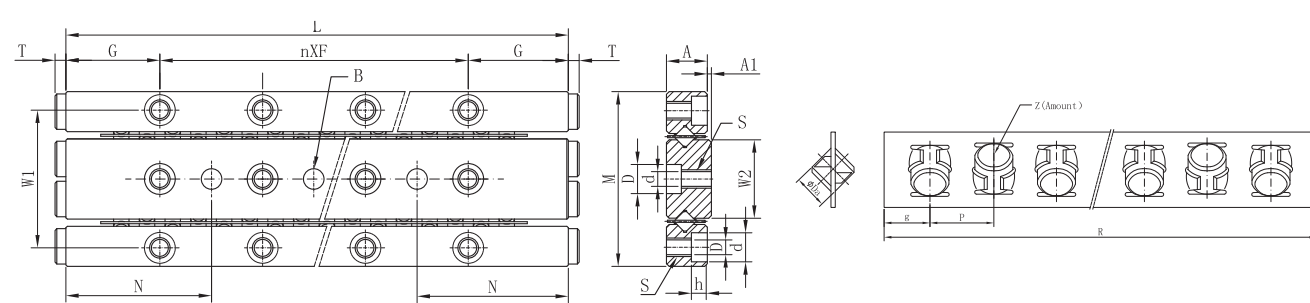
Rectangle Wheel Linear Rail

Ball Screw

Ball screw Support Unit

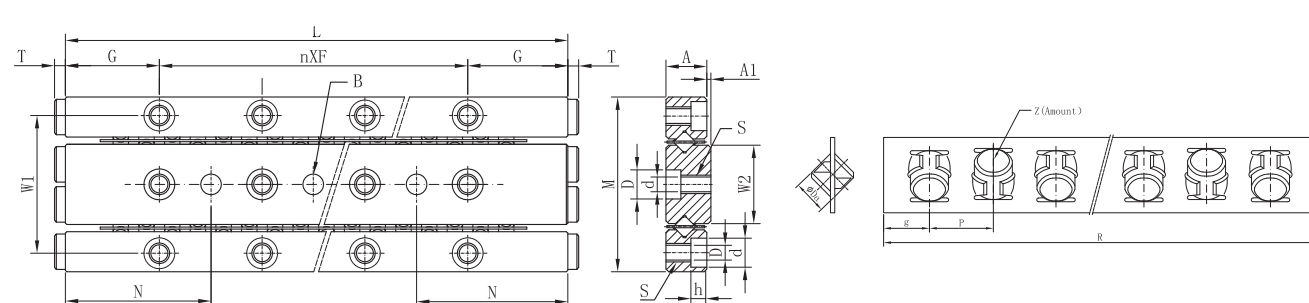
Cross Roller Guide  
NVT3-Series

# NVT3-



| Part No. | Main Dimensions |                  |   |     |               |      |    |      |     |    |     |   |    |     |   |     |    |   |   |   | Quantity of Roller | Permitting preloading amount<br>S<br>μm | Basic Rated Load (Each Roller) |       |      | Quality (Track)<br>kg/m |     |    |
|----------|-----------------|------------------|---|-----|---------------|------|----|------|-----|----|-----|---|----|-----|---|-----|----|---|---|---|--------------------|---|--------------------------------|-------|------|-------------------------|-----|----|
|          | Maximum Stroke  | Combination Size |   |     | Assembly Size |      |    |      |     |    |     |   |    |     |   |     |    |   |   | Z |                    |   | Cz                             | Cz    | Cz   |                         |     |    |
|          |                 | M                | A | L   | nxF           | G    | W1 | W2   | T   | N  | d   | D | S  | A1  | B | h   | Da | R | g |   |                    |   |                                |       |      |                         | p   |    |
| NVT3-50  | 28              | 36               | 8 | 50  | 1×25          |      |    |      |     |    |     |   |    |     |   |     |    |   |   |   | 36                 | 7                                       | -4                             | 0.651 | 0.77 | 0.45                    |     |    |
| NVT3-75  | 48              |                  |   | 75  | 2×25          |      |    |      |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |      |                         | 51  | 10 |
| NVT3-100 | 58              |                  |   | 100 | 3×25          |      |    |      |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |      |                         | 71  | 14 |
| NVT3-125 | 78              |                  |   | 120 | 4×25          | 12.5 | 29 | 16.6 | 1.5 | 25 | 3.3 | 6 | M4 | 0.5 | 4 | 3.1 | 3  |   |   |   |                    |   |                                |       |      |                         | 86  | 17 |
| NVT3-150 | 88              |                  |   | 150 | 5×25          |      |    |      |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |      |                         | 103 | 21 |
| NVT3-175 | 108             |                  |   | 175 | 6×25          |      |    |      |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |      |                         | 121 | 24 |
| NVT3-200 | 118             |                  |   | 200 | 7×25          |      |    |      |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |      |                         | 141 | 28 |
| NVT3-225 | 138             |                  |   | 225 | 8×25          |      |    |      |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |      |                         | 156 | 31 |

# NVT4-



| Part No. | Main Dimensions |                  |    |     |               |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   | Quantity of Roller | Permitting preloading amount<br>S<br>μm | Basic Rated Load (Each Roller) |       |       | Quality (Track)<br>kg/m |     |    |
|----------|-----------------|------------------|----|-----|---------------|----|----|----|-----|----|-----|---|----|-----|---|-----|----|---|---|---|--------------------|---|--------------------------------|-------|-------|-------------------------|-----|----|
|          | Maximum Stroke  | Combination Size |    |     | Assembly Size |    |    |    |     |    |     |   |    |     |   |     |    |   |   | Z |                    |   | Cz                             | Cz    | Cz    |                         |     |    |
|          |                 | M                | A  | L   | nxF           | G  | W1 | W2 | T   | N  | d   | D | S  | A1  | B | h   | Da | R | g |   |                    |   |                                |       |       |                         | p   |    |
| NVT4-80  | 58              | 44               | 11 | 80  | 1×40          |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   | 51                 | 7                                       | -5                             | 1.242 | 1.183 | 0.85                    |     |    |
| NVT4-120 | 82              |                  |    | 120 | 2×40          |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |       |                         | 79  | 11 |
| NVT4-160 | 106             |                  |    | 160 | 3×40          |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |       |                         | 107 | 15 |
| NVT4-200 | 130             |                  |    | 200 | 4×40          | 20 | 35 | 11 | 1.5 | 40 | 4.3 | 8 | M5 | 0.5 | 3 | 4.2 | 4  |   |   |   |                    |   |                                |       |       |                         | 135 | 19 |
| NVT4-240 | 154             |                  |    | 240 | 5×40          |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |       |                         | 163 | 23 |
| NVT4-280 | 178             |                  |    | 280 | 6×40          |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |       |                         | 191 | 27 |
| NVT4-320 | 202             |                  |    | 320 | 7×40          |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |       |                         | 219 | 31 |
| NVT4-360 | 226             |                  |    | 360 | 8×40          |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |       |                         | 247 | 35 |
| NVT4-400 | 250             |                  |    | 400 | 9×40          |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |       |                         | 275 | 39 |
| NVT4-440 | 274             |                  |    | 440 | 10×40         |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |       |                         | 303 | 43 |
| NVT4-480 | 298             |                  |    | 480 | 11×40         |    |    |    |     |    |     |   |    |     |   |     |    |   |   |   |                    |   |                                |       |       |                         | 331 | 47 |

Linear Bush Series

Slide Unit Series

Shaft Support Serie

Linear Guide

Rectangle Wheel Linear Rail

Ball Screw

Ball screw Support Unit

Cross Roller Guide  
NVT4-Series

→ Note

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→ Note

Lined area for notes on page 101, consisting of 20 horizontal dashed lines.



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