# D.Linear Bearing



## LINEAR BALL BUSHING



**LM**
**LME**
**LMB**



**LM-AJ**
**LME-AJ**
**LMB-AJ**



**LM -OP**
**LME -OP**
**LMB -OP**

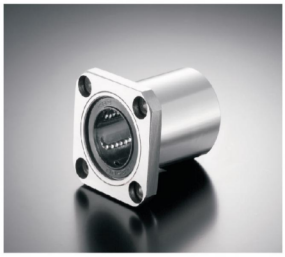


LM-L
LME-L
LMB-L

## FLANGED TYPE LINEAR BALL BUSHING



LM-L
LME-L
LMB-L



LMK
LMEK
LMBK



LMH



LMF-L
LMEF-L
LMBF-L



LMK-L
LMEK-L
LMBK-L



LMH-L

## FLANGED SLIDE BUSH



LMFC
LMEFC
LMBFC



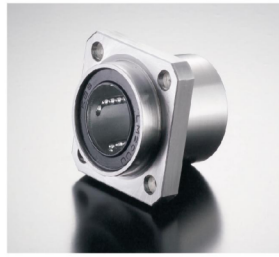
LMKC
LMEKC
LMBKC



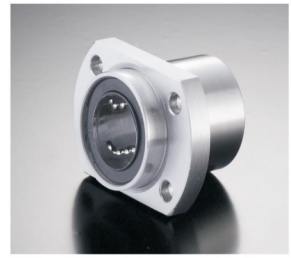
LMHC



LMF···UU-E



LMK···UU-E



LMH···UU-E



LMF···LUU-E



LMK···LUU-E



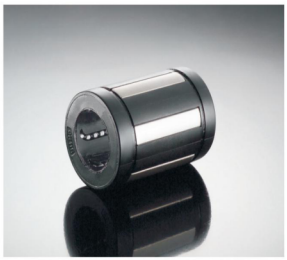
LMH···LUU-E

## KH BUSHING



COMPACT RANGE
KH SERIES

## SUPER LINEAR BALL BUSHING



LMES
LMBS



LMES-OP
LMBS-OP

## LINEAR BALL BUSHING CASE UNIT



SC
SCE



SC-W
SCE-W



SC-V
SCE-V



SCJ

## SUPPORT RAIL UNIT



SBS



TBS

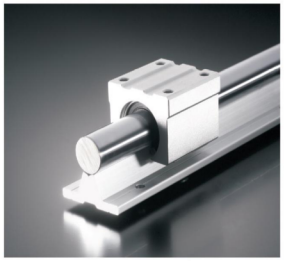


SBR

## SUPPORT RAIL UNIT



TBR

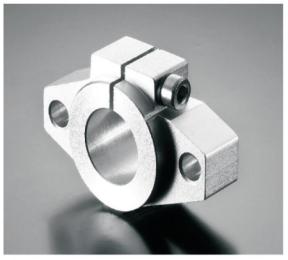


SBR-S

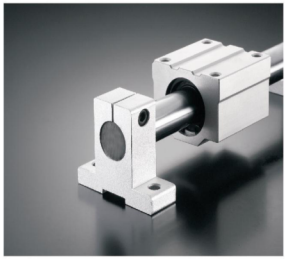


TBR-S

## SHAFT SUPPORT

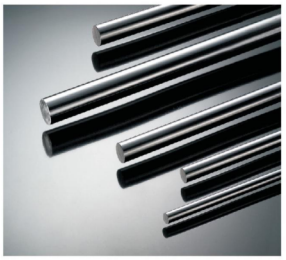


SHF



SK

## FINE SHAFT



SF

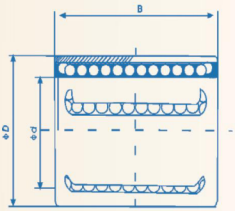
# < Linear Ball Bushing>

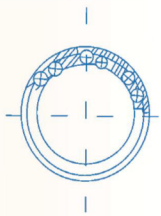
## <KH series>
## <LM. LME. LMB series>
## <LMF.K. H series>
## <LMF. K. H ···L series>



## Standard Linear Ball Bearing Steel Drawn Cup/Cage Plastic





| | Dimensions [mm] | | | Load Capacity [N] | | Weight [g] |
|---|---|---|---|---|---|---|
| **Part-No.** | **ϕd** | **ϕD** | **B** | **Dyn.** | **Stat.** | |
| KH-0622 | 6 | 12 | 22 | 400 | 240 | 7 |
| KH-0824 | 8 | 15 | 24 | 440 | 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 | 710 | 530 | 20.5 |
| KH-1630 | 16 | 24 | 30 | 800 | 630 | 27.5 |
| KH-2030 | 20 | 28 | 30 | 950 | 800 | 32.5 |
| KH-2540 | 25 | 35 | 40 | 1990 | 1560 | 66 |
| KH-3050 | 30 | 40 | 50 | 2900 | 2700 | 95 |
| KH-4060 | 40 | 52 | 60 | 5100 | 4500 | 182 |
| KH-5070 | 50 | 62 | 70 | 6950 | 6300 | 252 |

**Ordering Example:**

KH — Standard linear Bearing

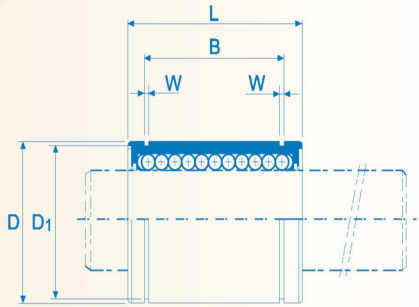
ϕ — Shaft Diameter

PP — P=seal one end, PP=seal both ends

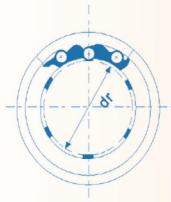
## LM <Built-in Synthetics Resin Retainer>



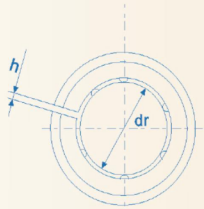
This type is a metric dimension series widely used in Japan and other countries



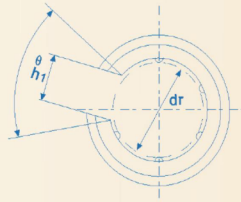

| Nominal Part No. | | | | | | Nominal Shaft Diameter (mm) | |
|---|---|---|---|---|---|---|---|
| Standard Type | Seal Type | Ball Circuit | Weight g | Adjustable Type | Open Type | dr | Tolerance |
| LM 4<br>LM 5 | LM 4 UU<br>LM 5 UU | 4<br>4 | 2.0<br>4 | ———<br>——— | ———<br>——— | 4<br>5 | 0<br>-0.008 |
| LM 6<br>LM 8S<br>LM 8 | LM 6 UU<br>LM 8S UU<br>LM 8 UU | 4<br>4<br>4 | 8.5<br>11<br>17 | LM 6-AJ<br>LM 8S-AJ<br>LM 8-AJ | ———<br>———<br>——— | 6<br>8<br>8 | |
| LM 10<br>LM 12<br>LM 13 | LM 10 UU<br>LM 12 UU<br>LM 13 UU | 4<br>4<br>4 | 36<br>42<br>49 | LM 10-AJ<br>LM 12-AJ<br>LM 13-AJ | ———<br>LM 12-OP<br>LM 13-OP | 10<br>12<br>13 | 0<br>-0.009 |
| LM 16<br>LM 20<br>LM 25 | LM 16 UU<br>LM 20 UU<br>LM 25 UU | 5<br>5<br>6 | 76<br>100<br>240 | LM 16-AJ<br>LM 20-AJ<br>LM 25-AJ | LM 16-OP<br>LM 20-OP<br>LM 25-OP | 16<br>20<br>25 | 0<br>-0.010 |
| LM 30<br>LM 35 | LM 30 UU<br>LM 35 UU | 6<br>6 | 270<br>425 | LM 30-AJ<br>LM 35-AJ | LM 30-OP<br>LM 35-OP | 30<br>35<br>38 | 0<br>-0.012 |
| LM 40<br>LM 50<br>LM 60 | LM 40 UU<br>LM 50 UU<br>LM 60 UU | 6<br>6<br>6 | 654<br>1700<br>2000 | LM 40-AJ<br>LM 50-AJ<br>LM 60-AJ | LM 40-OP<br>LM 50-OP<br>LM 60-OP | 40<br>50<br>60 | 0<br>-0.015 |




LM




LM • • • AJ

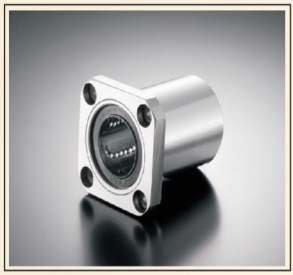



LM • • • OP

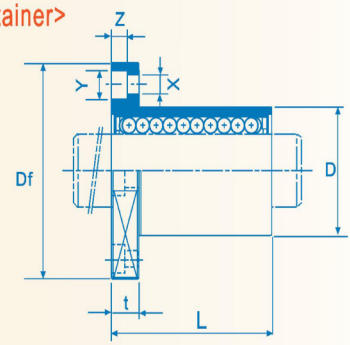
| Major Dimensions and Tolerance (mm) | | | | | | | | | | | Eccentricity (max) μm | Radial Clearance (max) μm | Basic Load Rating C(N) | Basic Load Rating Co(N) | Nominal Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | Tolerance | L | Tolerance | B | Tolerance | W | D1 | h | h1 | θ | | | | | |
| 8 | 0 -0.009 | 12 | 0 -0.12 | — | — | — | — | — | — | — | | | | | |
| 10 | | 15 | | 10.2 | | 1.1 | 9.6 | — | — | — | 8 | −3 | 167 | 206 | LM 4<br>LM 5 |
| 12 | 0 -0.011 | 19 | | 13.5 | | 1.1 | 11.5 | 1 | — | — | 12 | −3 | 206 | 265 | LM 6 |
| 15 | | 17 | | 11.5 | | 1.1 | 14.3 | 1 | — | — | 12 | −3 | 176 | 225 | LM 8S |
| 15 | | 24 | | 17.5 | | 1.1 | 14.3 | 1 | — | — | 12 | −3 | 265 | 402 | LM 8 |
| 19 | 0 -0.013 | 29 | 0 -0.2 | 22 | 0 -0.2 | 1.3 | 18 | 1 | | | 12 | −4 | 373 | 549 | LM 10 |
| 21 | | 30 | | 23 | | 1.3 | 20 | 1.5 | 8 | 80° | 12 | −4 | 412 | 590 | LM 12 |
| 23 | | 32 | | 23 | | 1.3 | 22 | 1.5 | 9 | 80° | 12 | −4 | 510 | 775 | LM 13 |
| 28 | 0 -0.016 | 37 | 0 -0.3 | 26.5 | 0 -0.3 | 1.6 | 27 | 1.5 | 11 | 80° | 12 | −6 | 775 | 1180 | LM 16 |
| 32 | | 42 | | 30.5 | | 1.6 | 30.5 | 1.5 | 11 | 60° | 15 | −6 | 863 | 1370 | LM 20 |
| 40 | | 59 | | 41 | | 1.85 | 38 | 2 | 12 | 50° | 15 | −6 | 980 | 1570 | LM 25 |
| 45 | 0 -0.019 | 64 | | 44.5 | | 1.85 | 43 | 2.5 | 15 | 50° | 15 | −8 | 1570 | 2750 | LM 30 |
| 52 | | 70 | | 49.5 | | 2.1 | 49 | 2.5 | 17 | 50° | 20 | −8 | 1670 | 3140 | LM 35 |
| 60 | 0 -0.022 | 80 | | 60.5 | | 2.1 | 57 | 3 | 20 | 50° | 20 | −10 | 2162 | 4020 | LM 40 |
| 80 | | 100 | | 74 | | 2.6 | 76.5 | 3 | 25 | 50° | 20 | −13 | 3820 | 7940 | LM 50 |
| 90 | | 110 | | 85 | | 3.15 | 86.5 | 3 | 30 | 50° | 25 | −13 | 4710 | 10000 | LM 60 |

SI Unit 1N≒0.102kgf

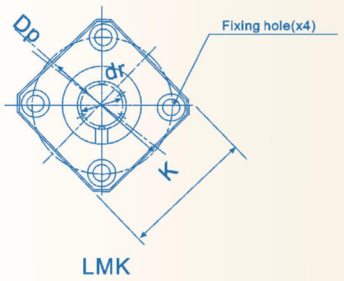
## LMK <Built-in Synthetics Resin Retainer>



This type is a metric dimension series widely used in Japan and other countries




| Nominal Part No. | | | | Major Dimensions and Tolerance (mm) | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Standard Type | Seal Type | Ball Circuit | Weight g | dr | Tolerance | D | Tolerance | L | Tolerance |
| LMK 6 | LMK 6 UU | 4 | 18 | 6 | | 12 | 0 -0.013 | 19 | |
| LMK 8S | LMK 8S UU | 4 | 24 | 8 | | 15 | | 17 | |
| LMK 8 | LMK 8 UU | 4 | 29 | 8 | 0 -0.009 | 15 | | 24 | |
| LMK 10 | LMK 10 UU | 4 | 52 | 10 | | 19 | | 29 | |
| LMK 12 | LMK 12 UU | 4 | 57 | 12 | | 21 | 0 -0.016 | 30 | |
| LMK 13 | LMK 13 UU | 4 | 72 | 13 | | 23 | | 32 | |
| LMK 16 | LMK 16 UU | 5 | 104 | 16 | | 28 | | 37 | |
| LMK 20 | LMK 20 UU | 5 | 145 | 20 | | 32 | | 42 | ±0.3 |
| LMK 25 | LMK 25 UU | 6 | 300 | 25 | 0 -0.010 | 40 | 0 -0.019 | 59 | |
| LMK 30 | LMK 30 UU | 6 | 375 | 30 | | 45 | | 64 | |
| LMK 35 | LMK 35 UU | 6 | 560 | 35 | | 52 | | 70 | |
| LMK 40 | LMK 40 UU | 6 | 880 | 40 | 0 -0.012 | 60 | 0 -0.022 | 80 | |
| LMK 50 | LMK 50 UU | 6 | 2000 | 50 | | 80 | | 100 | |
| LMK 60 | LMK 60 UU | 6 | 2560 | 60 | 0 -0.015 | 90 | 0 -0.025 | 110 | |



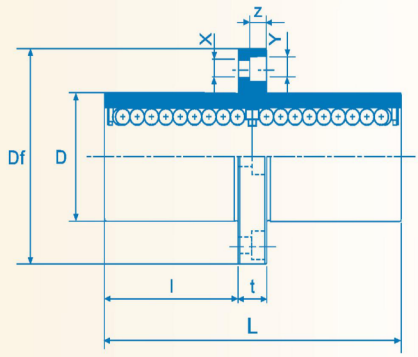

| Major Dimensions and Tolerance (mm) | | | | | | | Eccentricity | Squareness | Basic Load Rating | | Nominal Part No. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Flange | | | | | | | μm | μm | Dynamic C(N) | Static Co(N) | |
| Df | K | t | Dp | X | Y | Z | | | | | |
| 28 | 22 | 5 | 20 | 3.5 | 6 | 3.1 | 12 | 12 | 206 | 265 | **LMK 6** |
| 32 | 25 | 5 | 24 | 3.5 | 6 | 3.1 | 12 | 12 | 176 | 216 | **LMK 8S** |
| 32 | 25 | 5 | 24 | 3.5 | 6 | 3.1 | 12 | 12 | 274 | 392 | **LMK 8** |
| 40 | 30 | 6 | 29 | 4.5 | 7.5 | 4.1 | 12 | 12 | 372 | 549 | **LMK 10** |
| 42 | 32 | 6 | 32 | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | **LMK 12** |
| 43 | 34 | 6 | 33 | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | **LMK 13** |
| 48 | 37 | 6 | 38 | 4.5 | 7.5 | 4.1 | 12 | 12 | 774 | 1,180 | **LMK 16** |
| 54 | 42 | 8 | 43 | 5.5 | 9 | 5.1 | 15 | 15 | 882 | 1,370 | **LMK 20** |
| 62 | 50 | 8 | 51 | 5.5 | 9 | 5.1 | 15 | 15 | 980 | 1,570 | **LMK 25** |
| 74 | 58 | 10 | 60 | 6.6 | 11 | 6.1 | 15 | 15 | 1,570 | 2,740 | **LMK 30** |
| 82 | 64 | 10 | 67 | 6.6 | 11 | 6.1 | 20 | 20 | 1,670 | 3,140 | **LMK 35** |
| 96 | 75 | 13 | 78 | 9 | 14 | 8.1 | 20 | 20 | 2,160 | 4,020 | **LMK 40** |
| 116 | 92 | 13 | 98 | 9 | 14 | 8.1 | 20 | 20 | 3,820 | 7,940 | **LMK 50** |
| 134 | 106 | 18 | 112 | 11 | 17 | 11.1 | 25 | 25 | 4,700 | 10,000 | **LMK 60** |

SI Unit 1N≒0.102kgf

## LMFC <Resin Retainer>

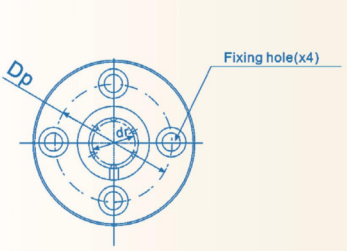


This type is a metric dimension series widely used in Japan and other countries.

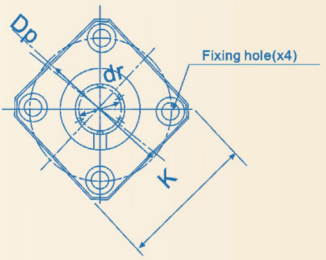



| Nominal shaft diameter mm | Part No. | | Major dimensions and tolerance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | dr | | D | | L | | Flange | | |
| | LMFC | LMKC | mm | Tolerance μm | mm | Tolerance μm | mm | Tolerance μm | l mm | Df mm | K mm |
| 6 | LMFC6 | LMKC6 | 6 | 0 -10 | 12 | 0 -13 | 35 | ±300 | 15 | 28 | 22 |
| 8 | LMFC8 | LMKC8 | 8 | | 15 | | 45 | | 20 | 32 | 25 |
| 10 | LMFC10 | LMKC10 | 10 | | 19 | 0 -16 | 55 | | 24.5 | 40 | 30 |
| 12 | LMFC12 | LMKC12 | 12 | | 21 | | 57 | | 25.5 | 42 | 32 |
| 13 | LMFC13 | LMKC13 | 13 | | 23 | | 61 | | 27.5 | 43 | 34 |
| 16 | LMFC16 | LMKC16 | 16 | | 28 | | 70 | | 32 | 48 | 37 |
| 20 | LMFC20 | LMKC20 | 20 | 0 -12 | 32 | 0 -19 | 80 | | 36 | 54 | 42 |
| 25 | LMFC25 | LMKC25 | 25 | | 40 | | 112 | | 52 | 62 | 50 |
| 30 | LMFC30 | LMKC30 | 30 | | 45 | | 123 | | 56.5 | 74 | 58 |
| 35 | LMFC35 | LMKC35 | 35 | 0 -15 | 52 | 0 -22 | 135 | | 62.5 | 82 | 64 |
| 40 | LMFC40 | LMKC40 | 40 | | 60 | | 151 | | 69 | 96 | 75 |
| 50 | LMFC50 | LMKC50 | 50 | | 80 | | 192 | | 89.5 | 116 | 92 |
| 60 | LMFC60 | LMKC60 | 60 | 0 -20 | 90 | 0 -25 | 209 | | 95.5 | 134 | 106 |

Seal type:
LMFC10 UU



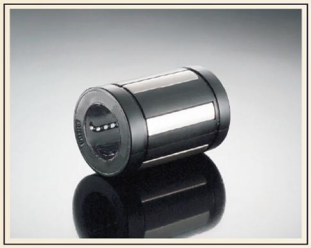

LMFC

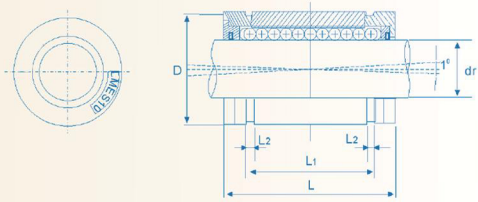



LMKC

| Major dimensions and tolerance | | | | | Eccentricity | Squareness | Basic load rating | | Weight | Nominal shaft diameter |
|---|---|---|---|---|---|---|---|---|---|---|
| Flange | | | | | | | | | | |
| t<br>mm | Dp<br>mm | X<br>mm | Y<br>mm | Z<br>mm | μm | μm | dynamic<br>C(N) | Static<br>Co(N) | g | mm |
| 5 | 20 | 3.5 | 6 | 3.1 | 15 | 15 | 323 | 530 | 31<br>25 | 6 |
| 5 | 24 | 3.5 | 6 | 3.1 | | | 431 | 784 | 51<br>43 | 8 |
| 6 | 29 | 4.5 | 7.5 | 4.1 | | | 588 | 1,100 | 98<br>78 | 10 |
| 6 | 32 | 4.5 | 7.5 | 4.1 | | | 813 | 1,570 | 110<br>90 | 12 |
| 6 | 33 | 4.5 | 7.5 | 4.1 | | | 813 | 1,570 | 130<br>108 | 13 |
| 6 | 38 | 4.5 | 7.5 | 4.1 | | | 1,230 | 2,350 | 190<br>165 | 16 |
| 8 | 43 | 5.5 | 9 | 5.1 | 20 | 20 | 1,400 | 2,740 | 260<br>225 | 20 |
| 8 | 51 | 5.5 | 9 | 5.1 | | | 1,560 | 3,140 | 540<br>500 | 25 |
| 10 | 60 | 6.6 | 11 | 6.1 | | | 2,490 | 5,490 | 680<br>590 | 30 |
| 10 | 67 | 6.6 | 11 | 6.1 | 25 | 25 | 2,650 | 6,270 | 1,020<br>930 | 35 |
| 13 | 78 | 9 | 14 | 8.1 | | | 3,430 | 8,040 | 1,570<br>1,380 | 40 |
| 13 | 98 | 9 | 14 | 8.1 | | | 6,080 | 15,900 | 3,600<br>3,400 | 50 |
| 18 | 112 | 11 | 17 | 11.1 | 30 | 30 | 7,550 | 20,000 | 4,500<br>4,060 | 60 |

## LMES Series



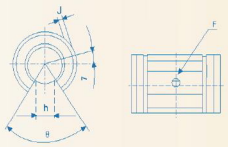



| Shaft Dia. (mm) | Standard Type | | | | Dimensions (mm) | | | | Diameteral Clearance | | Basic Load Ratings | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Part number | | No.of Ball circuit | Wgt. (g) | D[1] | L ±0.2 | L1 ±0.2 | L2 min | dr (mm) | Tol. (μm) | Dynamic C (N) | Static Co (N) |
| | w/o seal | with seal | | | | | | | | | | |
| 10 | LMES 10 | LMES 10UU | 5 | 17 | 19 | 29 | 21.7 | 1.35 | 10 | +8 0 | 750 | 550 |
| 12 | LMES 12 | LMES 12UU | 5 | 23 | 22 | 32 | 22.7 | 1.35 | 12 | | 1230 | 1100 |
| 16 | LMES 16 | LMES 16UU | 5 | 28 | 26 | 36 | 24.7 | 1.35 | 16 | +9 1 | 1550 | 1250 |
| 20 | LMES 20 | LMES 20UU | 6 | 61 | 32 | 45 | 31.3 | 1.65 | 20 | | 2580 | 1670 |
| 25 | LMES 25 | LMES 25UU | 6 | 122 | 40 | 58 | 43.8 | 1.90 | 25 | +11 1 | 3800 | 2750 |
| 30 | LMES 30 | LMES 30UU | 6 | 185 | 47 | 68 | 51.8 | 1.90 | 30 | | 4710 | 2800 |
| 40 | LMES 40 | LMES 40UU | 6 | 360 | 62 | 80 | 60.4 | 2.20 | 40 | +13 2 | 6500 | 5720 |
| 50 | LMES 50 | LMES 50UU | 6 | 580 | 75 | 100 | 77.4 | 2.70 | 50 | | 11460 | 7940 |

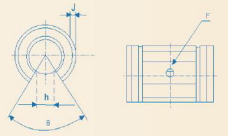
[1] Based on nominal housing bore



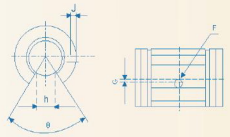
LMES12-OP



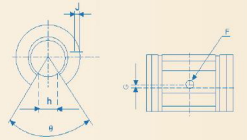
LMES16-OP LMES20-OP



LMES25-OP



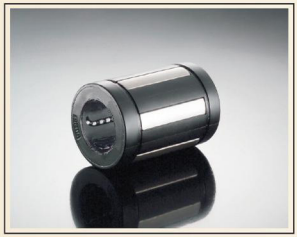
LMES30-OP LMES40-OP LMES50-OP



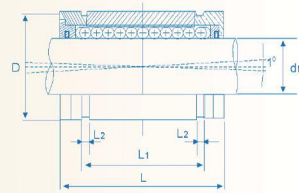
| Shaft Dia. (mm) | Open Type | | | | Dimensions (mm) | | | | | | | | Basic Load Ratings | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Part number | | No.of Ball circuit | Wgt. (g) | D[1)] | L ±0.2 | $L_2$ | h | θ (°) | F | G | J | Dynamic C (N) | Static Co (N) |
| | w/o seal | with seal | | | | | | | | | | | | |
| 12 | LMES 12OP | LMES 12UUOP | 4 | 18 | 22 | 32 | 1.35 | 6.5 | 66 | 3.0 | – | 0.7 | 1290 | 1260 |
| 16 | LMES 16OP | LMES 16UUOP | 4 | 22 | 26 | 36 | 1.35 | 9 | 68 | | – | 0.7 | 1640 | 1320 |
| 20 | LMES 20OP | LMES 20UUOP | 5 | 51 | 32 | 45 | 1.65 | 9 | 55 | | – | 0.9 | 2630 | 1720 |
| 25 | LMES 25OP | LMES 25UUOP | 5 | 102 | 40 | 58 | 1.90 | 11.5 | 57 | | 1.5 | 1.4 | 3910 | 2850 |
| 30 | LMES 30OP | LMES 30UUOP | 5 | 155 | 47 | 68 | 1.90 | 14 | 57 | | 2.0 | 2.2 | 4850 | 2900 |
| 40 | LMES 40OP | LMES 40UUOP | 5 | 300 | 62 | 80 | 2.20 | 19.5 | 56 | | 1.5 | 2.7 | 6700 | 5900 |
| 50 | LMES 50OP | LMES 50UUOP | 5 | 480 | 75 | 100 | 2.70 | 22.5 | 54 | | 2.5 | 2.3 | 11700 | 8100 |

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## LMBS Series



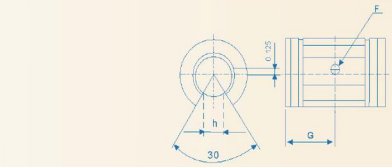




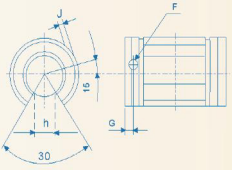

| Shaft Dia. (inch) | Standard Type | | | | Dimensions (inch) | | | | | | Basic Load Ratings | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Part number | | No.of Ball circuit | Wgt. (lbf) | Working Bore Diameter | | D[1] | L | L1 | L2 min | Dynamic C (lbf) | Static Co (lbf) |
| | w/o seal | with seal | | | dr | Tol. | | | | | | |
| 1/4 | LMBS 4 | LMBS 4UU | 4 | 0.01 | 0.2500 | 0 -0.0005 | 0.5000 | 0.750/0.735 | 0.511/0.501 | 0.039 | 57 | 49 |
| 3/8 | LMBS 6 | LMBS 6UU | 4 | 0.02 | 0.3750 | | 0.6250 | 0.875/0.860 | 0.699/0.689 | 0.039 | 78 | 66 |
| 1/2 | LMBS 8 | LMBS 8UU | 4 | 0.05 | 0.5000 | | 0.8750 | 1.250/1.230 | 1.032/1.012 | 0.050 | 190 | 190 |
| 5/8 | LMBS 10 | LMBS 10UU | 5 | 0.08 | 0.6250 | | 1.1250 | 1.500/1.480 | 1.105/1.095 | 0.056 | 290 | 340 |
| 3/4 | LMBS 12 | LMBS 12UU | 6 | 0.14 | 0.7500 | | 1.2500 | 1.625/1.605 | 1.270/1.250 | 0.056 | 500 | 430 |
| 1 | LMBS 16 | LMBS 16UU | 6 | 0.29 | 1.0000 | | 1.5625 | 2.250/2.230 | 1.884/1.864 | 0.070 | 820 | 780 |
| 1-1/4 | LMBS 20 | LMBS 20UU | 6 | 0.40 | 1.2500 | 0 -0.0006 | 2.0000 | 2.625/2.600 | 2.004/1.984 | 0.068 | 1240 | 1270 |
| 1-1/2 | LMBS 24 | LMBS 24UU | 6 | 0.80 | 1.5000 | | 2.3750 | 3.000/2.970 | 2.410/2.390 | 0.086 | 1510 | 1540 |
| 2 | LMBS 32 | LMBS 32UU | 6 | 1.38 | 2.0000 | 0 -0.0008 | 3.0000 | 4.000/3.960 | 3.193/3.163 | 0.105 | 2230 | 2580 |

[1] Based on nominal housing bore

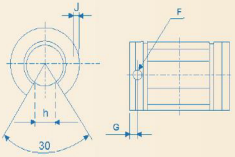





LMBS08-OP




LMBS10-OP



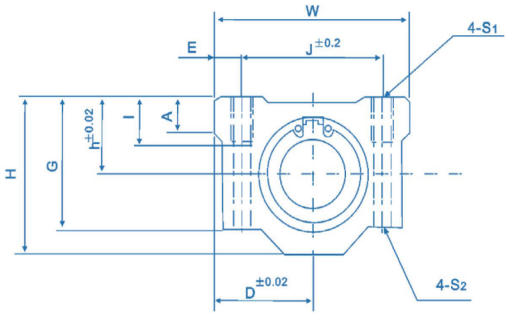

LMBS12-OP through LMBS32-OP

| Shaft Dia. (inch) | Open Type | | | | Dimensions (inch) | | | | | | | Basic Load Ratings | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Part number | | No.of Ball circuit | Wgt. (lbf) | D[1)] | L | F | G | J | $L_2$ (min) | h | Dynamic C (lbf) | Static Co (lbf) |
| | w/o seal | with seal | | | | | | | | | | | |
| 1 / 2 | LMBS 8OP | LMBS 8UUOP | 3 | 0.03 | 0.8750 | 1.250/1.230 | 0.14 | 0.63 | Thru | 0.050 | 0.32 | 210 | 190 |
| 5 / 8 | LMBS 10OP | LMBS 10UUOP | 4 | 0.06 | 1.1250 | 1.500/1.480 | 0.11 | 0.13 | 0.039 | 0.056 | 0.38 | 320 | 340 |
| 3 / 4 | LMBS 12OP | LMBS 12UUOP | 5 | 0.11 | 1.2500 | 1.625/1.605 | 0.14 | 0.13 | 0.059 | 0.056 | 0.43 | 510 | 430 |
| 1 | LMBS 16OP | LMBS 16UUOP | 5 | 0.21 | 1.5625 | 2.250/2.230 | 0.14 | 0.13 | 0.047 | 0.070 | 0.56 | 830 | 780 |
| 1-1 / 4 | LMBS 20OP | LMBS 20UUOP | 5 | 0.35 | 2.0000 | 2.625/2.600 | 0.20 | 0.19 | 0.090 | 0.068 | 0.63 | 1250 | 1270 |
| 1-1 / 2 | LMBS 24OP | LMBS 24UUOP | 5 | 0.67 | 2.3750 | 3.000/2.970 | 0.20 | 0.19 | 0.090 | 0.086 | 0.75 | 1520 | 1540 |
| 2 | LMBS 32OP | LMBS 32UUOP | 5 | 1.10 | 3.0000 | 4.000/3.960 | 0.27 | 0.31 | Thru | 0.105 | 1.00 | 2250 | 2580 |

[1)] Based on nominal housing bore

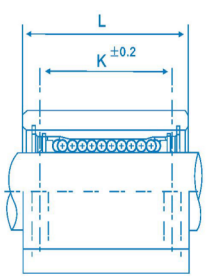
## SC Series



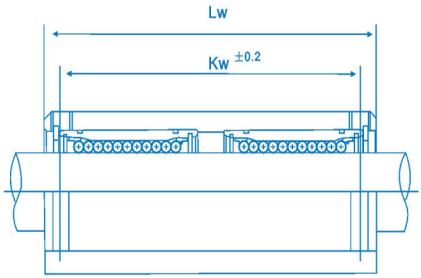



| Standard Type | | | | | Long Type | | | | | Short Type | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Part Number | Installed L/B | Load Ratings | | Wgt. (g) | Part Number | Installed L/B | Load Ratings | | Wgt. (g) | Part Number | Installed L/B | Load Ratings | | Wgt. (g) |
| | | C (N) | Co (N) | | | | C (N) | Co (N) | | | | C (N) | Co (N) | |
| **SC8UUN** | LM8UU | 274 | 392 | 52 | **SC8WUUN** | 2×LM8UU | 431 | 784 | 102 | **SC8VUUN** | LM8UU | 260 | 400 | 36 |
| **SC10UUN** | LM10UU | 372 | 549 | 92 | **SC10WUUN** | 2×LM10UU | 588 | 1100 | 180 | **SC10VUUN** | LM10UU | 370 | 540 | 63 |
| **SC12UUN** | LM12UU | 510 | 784 | 102 | **SC12WUUN** | 2×LM12UU | 813 | 1570 | 205 | **SC12VUUN** | LM12UU | 410 | 590 | 74 |
| **SC13UUN** | LM13UU | 510 | 784 | 120 | **SC13WUUN** | 2×LM13UU | 813 | 1570 | 240 | **SC13VUUN** | LM13UU | 500 | 770 | 85 |
| **SC16UUN** | LM16UU | 774 | 1180 | 200 | **SC16WUUN** | 2×LM16UU | 1230 | 2350 | 400 | **SC16VUUN** | LM16UU | 770 | 1170 | 132 |
| **SC20UUN** | LM20UU | 882 | 1370 | 255 | **SC20WUUN** | 2×LM20UU | 1400 | 2740 | 570 | **SC20VUUN** | LM20UU | 860 | 1370 | 170 |
| **SC25UUN** | LM25UU | 980 | 1570 | 600 | **SC25WUUN** | 2×LM25UU | 1560 | 3140 | 1200 | **SC25VUUN** | LM25UU | 980 | 1560 | 405 |
| **SC30UUN** | LM30UU | 1570 | 2740 | 735 | **SC30WUUN** | 2×LM30UU | 2490 | 5490 | 1480 | **SC30VUUN** | LM30UU | 1560 | 2740 | 495 |
| **SC35UUN** | LM35UU | 1670 | 3140 | 1100 | **SC35WUUN** | 2×LM35UU | 2650 | 6270 | 2200 | **SC35VUUN** | LM35UU | 1660 | 3130 | 790 |
| **SC40UUN** | LM40UU | 2160 | 4020 | 1590 | **SC40WUUN** | 2×LM40UU | 3430 | 8040 | 3200 | **SC40VUUN** | LM40UU | 2150 | 4010 | 1220 |
| **SC50UUN** | LM50UU | 3820 | 7940 | 3340 | **SC50WUUN** | 2×LM50UU | 6080 | 15900 | 6700 | **SC50VUUN** | LM50UU | 3820 | 7390 | 2300 |

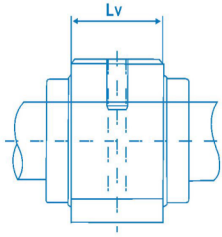
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SC□N



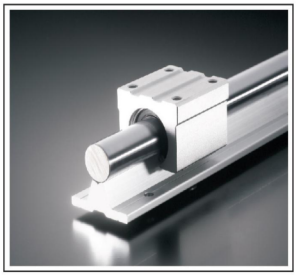

SC□WN



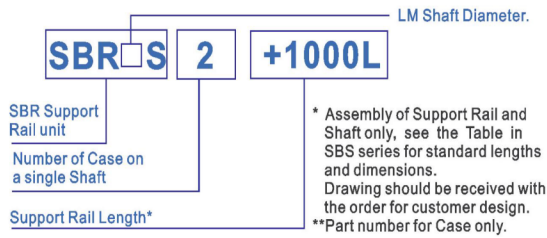

SC□VN

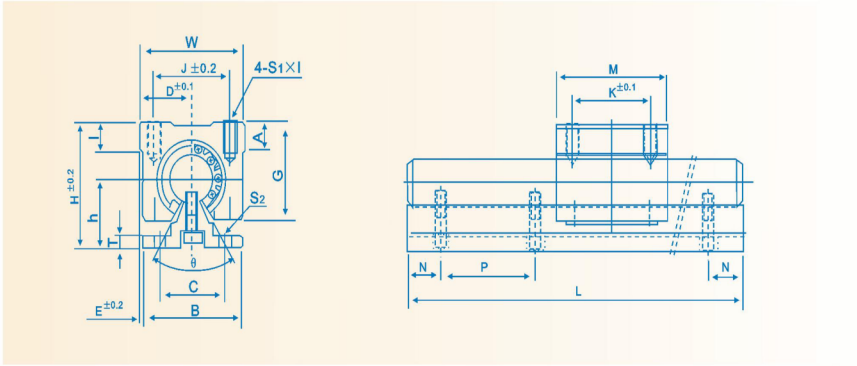
| Shaft Dia. | Dimensions(mm) | | | | | | | | | | | | | | | Part Number |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Common | | | | | | | | | | SC | | SC□W | | SC□V | |
| | h | D | W | H | G | A | J | E | S1×l | S2 | K | L | Kw | Lw | Lv | |
| Φ8 | 11 | 17 | 34 | 22 | 18 | 6 | 24 | 5 | M4×8 | Φ3.4 | 18 | 30 | 42 | 58 | 15.4 | SC8UUN |
| Φ10 | 13 | 20 | 40 | 26 | 21 | 8 | 28 | 6 | M5×12 | Φ4.3 | 21 | 35 | 46 | 68 | 19.5 | SC10UUN |
| Φ12 | 15 | 21 | 42 | 28 | 24 | 8 | 30.5 | 5.75 | M5×12 | Φ4.3 | 26 | 36 | 50 | 70 | 20.5 | SC12UUN |
| Φ13 | 15 | 22 | 44 | 30 | 24.5 | 8 | 33 | 5.5 | M5×12 | Φ4.3 | 26 | 39 | 50 | 75 | 20.5 | SC13UUN |
| Φ16 | 19 | 25 | 50 | 38.5 | 32.5 | 9 | 36 | 7 | M5×12 | Φ4.3 | 34 | 44 | 60 | 85 | 23.5 | SC16UUN |
| Φ20 | 21 | 27 | 54 | 41 | 35 | 11 | 40 | 7 | M6×12 | Φ5.2 | 40 | 50 | 70 | 96 | 27.4 | SC20UUN |
| Φ25 | 26 | 38 | 76 | 51.5 | 42 | 12 | 54 | 11 | M8×18 | Φ7.0 | 50 | 67 | 100 | 130 | 37.4 | SC25UUN |
| Φ30 | 30 | 39 | 78 | 59.5 | 49 | 15 | 58 | 10 | M8×18 | Φ7.0 | 58 | 72 | 110 | 140 | 40.9 | SC30UUN |
| Φ35 | 34 | 45 | 90 | 68 | 54 | 18 | 70 | 10 | M8×18 | Φ7.0 | 60 | 80 | 120 | 155 | 45.4 | SC35UUN |
| Φ40 | 40 | 51 | 102 | 78 | 62 | 20 | 80 | 11 | M10×25 | Φ8.7 | 60 | 90 | 140 | 175 | 56.4 | SC40UUN |
| Φ50 | 52 | 61 | 122 | 102 | 80 | 25 | 100 | 11 | M10×25 | Φ8.7 | 80 | 110 | 160 | 215 | 68.9 | SC50UUN |

## SBR□S Series



### Part Number Notation




| Part Number | | Shaft Dia. | Basic Load Ratings | | Weight | | Dimensions(mm) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit | Case* | | Dynamic C(N) | Static Co(N) | Case(kg) | Rail(kg/m) | D | h | H | E | θ |
| SBR16S | SBR16UU | ⌀16 | 770 | 1170 | 0.15 | 2.55 | 22.5 | 25 | 45 | 2.5 | 80° |
| SBR20S | SBR20UU | ⌀20 | 860 | 1370 | 0.20 | 3.50 | 24 | 27 | 50 | 1.5 | 60° |
| SBR25S | SBR25UU | ⌀25 | 980 | 1560 | 0.45 | 5.30 | 30 | 33 | 60 | 2.5 | 50° |
| SBR30S | SBR30UU | ⌀30 | 1560 | 2740 | 0.63 | 7.40 | 35 | 37 | 70 | 5 | 50° |
| SBR35S | SBR35UU | ⌀35 | 1660 | 3130 | 0.92 | 10.05 | 40 | 43 | 80 | 7.5 | 50° |
| SBR40S | SBR40UU | ⌀40 | 2150 | 4010 | 1.33 | 13.10 | 45 | 48 | 90 | 7.5 | 50° |
| SBR50S | SBR50UU | ⌀50 | 3820 | 7930 | 3.00 | 20.65 | 60 | 62 | 115 | 12.5 | 50° |

| Part Number | Dimensions(mm) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W | G | A | B | T | M | S1×I | J | K | S2 | C | N* | P* |
| SBR16S | 45 | 33 | 9 | 40 | 5 | 45 | M5×12 | 32 | 30 | ⌀5.5 | 30 | 20 | 150 |
| SBR20S | 48 | 39 | 11 | 45 | 5 | 50 | M6×12 | 35 | 35 | ⌀5.5 | 30 | 20 | 150 |
| SBR25S | 60 | 47 | 14 | 55 | 6 | 65 | M6×12 | 40 | 40 | ⌀6.6 | 35 | 25 | 200 |
| SBR30S | 70 | 56 | 15 | 60 | 7 | 70 | M8×18 | 50 | 50 | ⌀6.6 | 40 | 25 | 200 |
| SBR35S | 80 | 63 | 18 | 65 | 8 | 80 | M8×18 | 55 | 55 | ⌀9 | 45 | 30 | 200 |
| SBR40S | 90 | 72 | 20 | 75 | 9 | 90 | M10×20 | 65 | 65 | ⌀9 | 55 | 30 | 200 |
| SBR50S | 120 | 91 | 25 | 95 | 11 | 110 | M10×20 | 94 | 80 | ⌀11 | 70 | 35 | 200 |

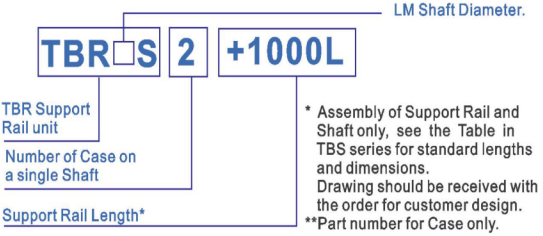
*:Standard

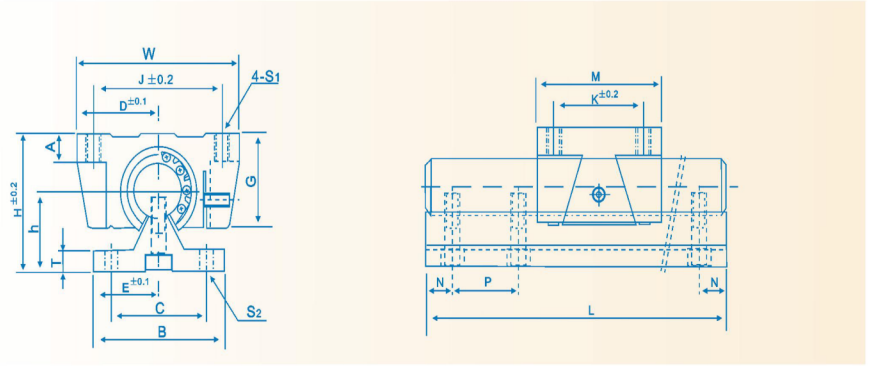
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## TBR□S Series



### Part Number Notation




| Part Number | | Shaft Dia. | Basic Load Ratings | | Weight | | Dimensions(mm) | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Unit | Case** | | Dynamic C(N) | Static Co(N) | Case(kg) | Rail(kg/m) | D | h | H | E |
| TBR16S | TBR16UU | ϕ16 | 392 | 490 | 0.18 | 2.45 | 31 | 22.14 | 40 | 25 |
| TBR20S | TBR20UU | ϕ20 | 784 | 1176 | 0.30 | 3.60 | 34 | 29.01 | 50 | 27.5 |
| TBR25S | TBR25UU | ϕ25 | 1568 | 2352 | 0.60 | 5.60 | 41 | 31.97 | 60 | 32.5 |
| TBR30S | TBR30UU | ϕ30 | 1764 | 2940 | 0.90 | 8.00 | 45.5 | 36.52 | 70 | 37.5 |

| Part Number | Dimensions(mm) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | W | G | A | B | T | M | $S_1$ | J | K | $S_2$ | C | N* | P* |
| TBR16S | 62 | 26 | 8 | 50 | 6 | 42 | M5 | 50 | 30 | ϕ5.5 | 37 | 20 | 150 |
| TBR20S | 68 | 31 | 10 | 55 | 8 | 51 | M6 | 54 | 37 | ϕ5.5 | 40 | 20 | 150 |
| TBR25S | 82 | 41 | 12 | 65 | 10 | 65 | M8 | 65 | 50 | ϕ6.6 | 45 | 25 | 200 |
| TBR30S | 91 | 48 | 12 | 75 | 12 | 75 | M8 | 75 | 60 | ϕ6.6 | 55 | 25 | 200 |

*:Standard

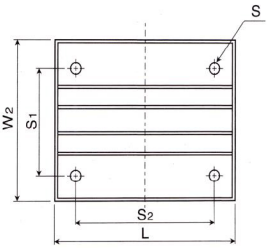
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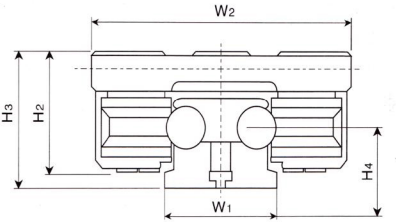
axial core linear series

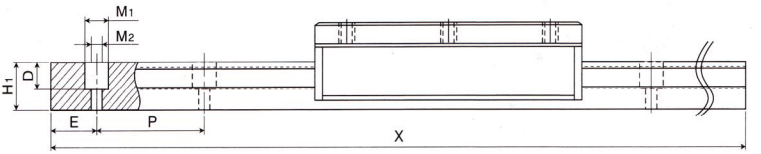
# LGD

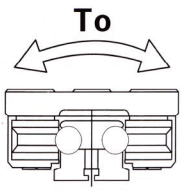


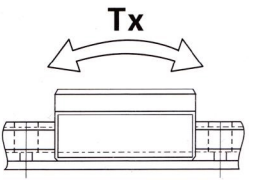


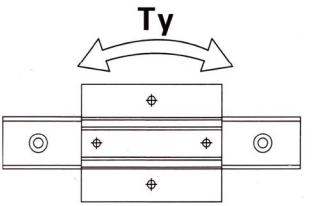


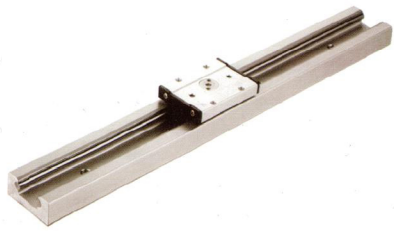
| 导轨型号 Type of guide | 宽度 Width 1 | 组合高度 H3 | 高度 Height 1 | 高度 Height 4 | 轴径 Shaft | 孔距 Pitch | 端距 End | 大孔 Macroporous 1 | 小孔 Macroporous 2 | 孔深 Hole depth | 单支长度 Single length | 对接长度 Buttle length | 重量 Weight Kg-m |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LGD6 | 26 | 29 | 18 | 13 | Φ6 | 60 | 30 | Φ 9 | Φ 5 | 7 | 0-6000 | Infinite | 1.25 |
| LGD8 | 28 | 30 | 20 | 14 | Φ8 | 50 | 25 | Φ 8.5 | Φ 5.5 | 5.5 | 0-6000 | Infinite | 2.3 |
| LGD12 | 36 | 39 | 25.5 | 16 | Φ12 | 50 | 25 | Φ 12.5 | Φ 6.5 | 12.5 | 0-6000 | Infinite | 3.1 |
| LGD16 | 49 | 50 | 32 | 21 | Φ16 | 80 | 40 | Φ 21 | Φ 10.5 | 17 | 0-6000 | Infinite | 5.8 |

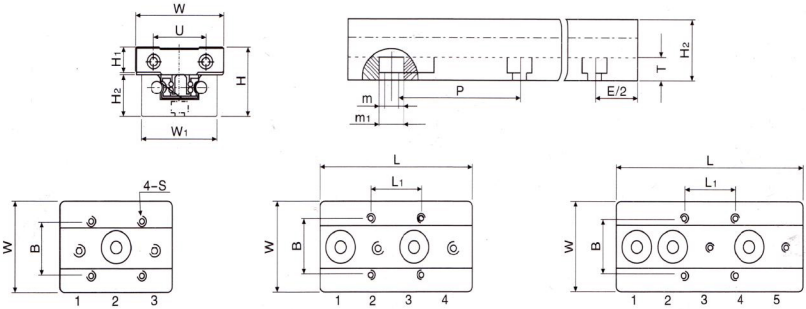
| 导轨型号 Type of slider | 宽度 Width 2 | 高度 Height 2 | 长度 Length 2 | 安装孔尺寸 Mounting holes Size $S_1$*$S_2$ | 安装孔 Mounting holes |
|---|---|---|---|---|---|
| LGB6-61L-4UU | 60 | 26 | 61 | 38*40 | M5*8 |
| LGB8-70L-4UU | 60 | 26 | 70 | 40*50 | M5*8 |
| LGB8-100L-4UU | 60 | 26 | 100 | 40*80 | M6*10 |
| LGB12-60L-2UU | 82 | 36 | 60 | 54*39 | M6*10 |
| LGB12-100L-4UU | 82 | 36 | 100 | 54*76 | M6*10 |
| LGB12-140L-6UU | 82 | 36 | 140 | 54*115 | M6*10 |
| LGB12-160L-8UU | 82 | 36 | 160 | 54*136 | M6*10 |
| LGB16-150L-4UU | 120 | 46 | 150 | 90*120 | M8*10 |
| LGB16-180L-4UU | 120 | 46 | 180 | 90*150 | M8*10 |

| 基本动荷载Kgf The basic dynamic load | 基本静荷载Kgf Basic static load | 容许静力矩 Allowable Static Moment | | | 重量 Weight Kg-per |
|---|---|---|---|---|---|
| | | To/Kgf-m | Tx/Kgf-m | Ty/Kgf-m | |
| 80 | 120 | 2.3 | 1.6 | 1.8 | 0.16 |
| 80 | 130 | 3.6 | 3 | 3.2 | 0.2 |
| 90 | 140 | 4.1 | 3.5 | 3.7 | 0.25 |
| 100 | 150 | 2.1 | 1.6 | 1.9 | 0.32 |
| 200 | 380 | 7.5 | 6 | 6.5 | 0.57 |
| 270 | 435 | 8.1 | 10.8 | 12.7 | 0.73 |
| 290 | 460 | 8.7 | 11.2 | 13.6 | 0.85 |
| 400 | 750 | 15.2 | 12.5 | 13.3 | 1.4 |
| 430 | 790 | 16.5 | 14.2 | 14.8 | 1.6 |

Rectangle wheel linear rail series

## SG

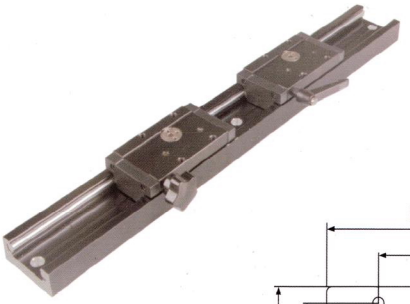


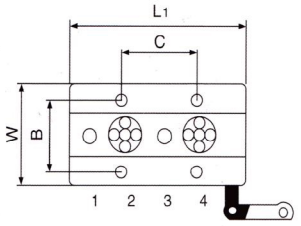


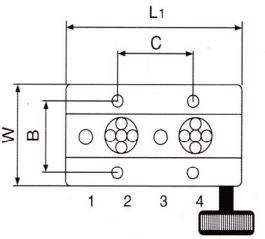

| SG | | 全套 | | 导轨SGR | | | | | | | | | | 滑座SGB | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SGR | SGB | H | W | W1 | H2 | dp | P | 轴(直径) | 导轨重量 guide weight | T | m1 | m | W | H1 | L | B | L1 | S | 滑轮数量 | 偏心轮位置 | 基本动力安全负荷(N) | | 动力距(N.m) | | | 滑块重量 kg-per |
| | | | | | | | | | | | | | | | | | | | | | Yo | Zo | Mxo | Myo | Mzo | |
| 10 | -3 | 29 | 28 | 32 | 17 | 6 | 60 | 6 | 1.106 | 8 | 8 | 4.5 | 28 | 11 | 88 | 26 | 26 | M4 | 3 | 2 | 320 | 300 | 6.4 | 6.8 | 7.1 | 0.110 |
| | -3 | | | | | | | | | | | | | | 60 | | | | 3 | 2 | 490 | 460 | 10.2 | 9.2 | 9.8 | 0.110 |
| 15N | -4 | 32 | 38 | 38 | 18.5 | 6 | 120 | 6 | 1.11 | 8 | 8 | 4.5 | 44 | 12 | 80 | 26 | 26 | M5 | 4 | 1,3 | 700 | 660 | 14.5 | 13.2 | 14 | 0.145 |
| | -5 | | | | | | | | | | | | | | 100 | | | | 5 | 1,1,4 | 980 | 920 | 20.3 | 37 | 39 | 0.185 |
| | -3 | | | | | | | | | | | | | | 60 | | | | 3 | 2 | 490 | 460 | 13.8 | 7.4 | 7.8 | 0.105 |
| 15 | -4 | 32 | 46 | 46 | 18.5 | 6 | 120 | 6 | 2.01 | 8 | 8 | 4.5 | 46 | 12 | 80 | 32 | 36 | M5 | 4 | 1,3 | 700 | 660 | 19.8 | 21.1 | 22.4 | 0.140 |
| | -5 | | | | | | | | | | | | | | 100 | | | | 5 | 1,1,4 | 980 | 920 | 27.7 | 44.3 | 47 | 0.170 |
| | -3 | | | | | | | | | | | | | | 81 | | | | 3 | 2 | 700 | 980 | 29.4 | 25.4 | 18.2 | 0.195 |
| 20N | -4 | 36 | 47 | 47 | 22.5 | 6 | 120 | 8 | 2.32 | 9 | 9.5 | 5.5 | 47 | 12 | 108 | 38 | 30 | M6 | 4 | 1,3 | 1000 | 1400 | 42 | 72.8 | 52 | 0.265 |
| | -5 | | | | | | | | | | | | | | 135 | | | | 5 | 1,1,4 | 1400 | 1960 | 84.2 | 129 | 92.4 | 0.350 |
| | -3 | | | | | | | | | | | | | | 81 | | | | 3 | 2 | 700 | 980 | 42.1 | 21.5 | 15.4 | 0.210 |
| 20 | -4 | 36 | 60 | 60 | 22.5 | 6 | 120 | 8 | 3.31 | 9 | 9.5 | 5.5 | 60 | 12 | 108 | 50 | 40 | M6 | 4 | 1,3 | 1000 | 1400 | 60.2 | 61.6 | 44 | 0.280 |
| | -5 | | | | | | | | | | | | | | 135 | | | | 5 | 1,1,4 | 1400 | 1960 | 84.2 | 129 | 92.4 | 0.350 |
| | -3 | | | | | | | | | | | | | | 100 | | | | 3 | 2 | 1260 | 1470 | 67.62 | 48.51 | 41.58 | 0.460 |
| 25 | -4 | 44 | 69 | 69 | 26 | 7 | 120 | 10 | 4.28 | 10 | 11 | 6.5 | 70 | 16.3 | 133 | 57 | 45 | M8 | 4 | 1,3 | 1800 | 2100 | 96.6 | 138.6 | 118.8 | 0.615 |
| | -5 | | | | | | | | | | | | | | 166 | | | | 5 | 1,1,4 | 2520 | 2940 | 135.0 | 291.06 | 249.48 | 0.775 |
| | -3 | | | | | | | | | | | | | | 140 | | | | 3 | 2 | 2800 | 2800 | 159.6 | 126 | 128 | 1.1 |
| 35 | -4 | 55 | 100 | 90 | 35 | 8.5 | 160 | 12 | 6.9 | 12 | 14 | 8.5 | 100 | 18 | 185 | 82 | 62 | M10 | 4 | 1,3 | 4000 | 4000 | 228 | 360 | 360 | 1.45 |
| | -5 | | | | | | | | | | | | | | 230 | | | | 5 | 1,1,4 | 5600 | 5600 | 319.2 | 758 | 756 | 1.835 |

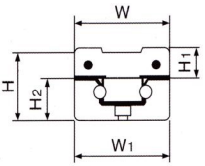
Black SGR lock series

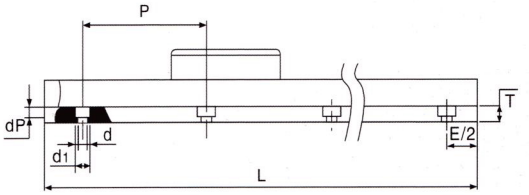
## SGR





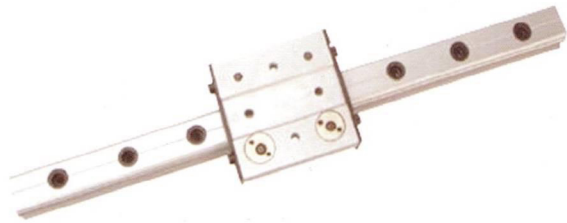



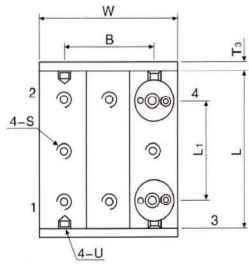



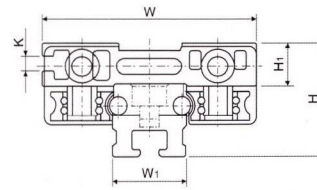

| SG | | 全套 | | 导轨SGR | | | | | | | | | | | 滑块SGB | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SGR | SGB | H | W | W1 | H2 | dp | P | 轴 (直径) | 重量 (k/m) | T | d | d1 | L1 | Lmax | B | C | H1 | S | 滑轮数量 | 偏心轮位置 | 基本动力 Yo | 安全负荷N Zo | 动力距(N.m) | | | 重量 (gf/m) |
| 10 | -4 | 23 | 28 | 28 | 14 | 3.3 | 60 | 5 | 1.05 | 7 | 3.4 | 6 | 80 | 4000 | 18.5 | 40 | 8.5 | M4 | 4 | 2.4 | 450 | 420 | 7.5 | 8.1 | 8.6 | 1621 |
| 15N | -4 | 32 | 44 | 38 | 18.5 | 5.5 | 120 | 6 | 1.65 | 7 | 4.5 | 8 | 100 | 4000 | 26 | 26 | 12 | M5 | 4 | 2.4 | 700 | 660 | 14.5 | 13.2 | 14.0 | 2146 |
| 15 | -4 | 32 | 46 | 46 | 18.5 | 5.5 | 120 | 6 | 1.76 | 8 | 4.5 | 8 | 86 | 4000 | 32 | 36 | 12 | M5 | 4 | 2.4 | 700 | 660 | 19.8 | 21.1 | 22.4 | 2426 |
| 20N | -4 | 36 | 47 | 47 | 22.5 | 5.5 | 120 | 8 | 2.25 | 8 | 5.5 | 9.5 | 130 | 4000 | 38 | 30 | 12 | M6 | 4 | 2.4 | 1.0 | 1.4 | 42 | 72.8 | 52 | 2859 |
| 20 | -4 | 36 | 60 | 60 | 22.5 | 5.5 | 120 | 8 | 2.75 | 8 | 5.5 | 9.5 | 130 | 4000 | 50 | 40 | 12 | M6 | 4 | 2.4 | 1.0 | 1.4 | 60.2 | 61.6 | 44 | 3688 |
| 25 | -4 | 44 | 70 | 70 | 26 | 6.5 | 120 | 10 | 3.88 | 9 | 6.5 | 11 | 160 | 4000 | 57 | 45 | 15 | M6 | 4 | 2.4 | 18.0 | 21.0 | 96.6 | 139 | 119 | 5009 |

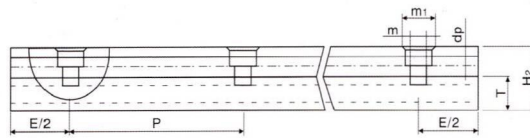
Rectangle wheel linear rail accessories

# OSG






| OSG | 全套 | | 导轨OSGR | | | | | | | | | 滑座OSGB | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | W | W1 | H2 | dp | P | 轴(直径) | 重量(k/m) | T | m1 | m | W | H1 | L | B | L1 | S | U | K | 基本动力安全负荷(N) Yo | 基本动力安全负荷(N) Zo | 动力距(N.m) Mxo | 动力距(N.m) Myo | 动力距(N.m) Mzo | 重量 kg-per |
| OSG-20 | 30 | 60 | 26 | 18 | 5.5 | 60 | 6 | 1230 | 12 | 9.5 | 5.5 | 60 | 12 | 60 | 38 | 38 | M5 | M5 | 4.2 | 700 | 660 | 23.03 | 33.41 | 35.47 | 0.12 |
| OSG-25 | 35 | 80 | 30 | 21 | 6.5 | 60 | 8 | 2015 | 14 | 11 | 6.5 | 80 | 12 | 80 | 51 | 51 | M6 | M6 | 4.2 | 1000 | 1400 | 62.76 | 95.2 | 68 | 0.24 |
| OSG-30 | 40 | 100 | 36 | 25 | 6.5 | 60 | 10 | 2987 | 15 | 11 | 6.5 | 100 | 16.5 | 100 | 61 | 61 | M8 | M6 | 5.2 | 1800 | 2100 | 105.98 | 172.54 | 147.89 | 0.52 |
| OSG-40 | 50 | 130 | 47 | 31.5 | 8.5 | 60 | 12 | 5216 | 20 | 14 | 9 | 130 | 18 | 130 | 84 | 84 | M10 | M6 | 6.2 | 4000 | 4000 | 280.64 | 448 | 448 | 1.13 |