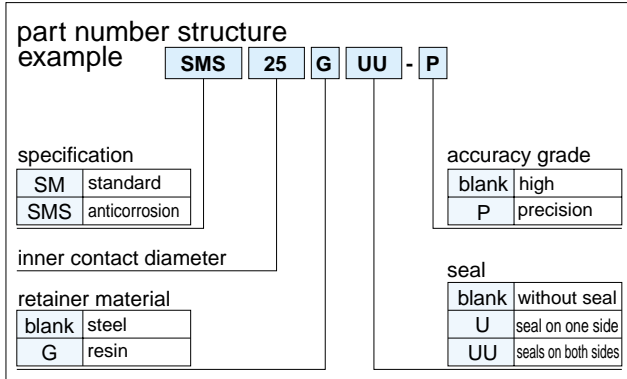


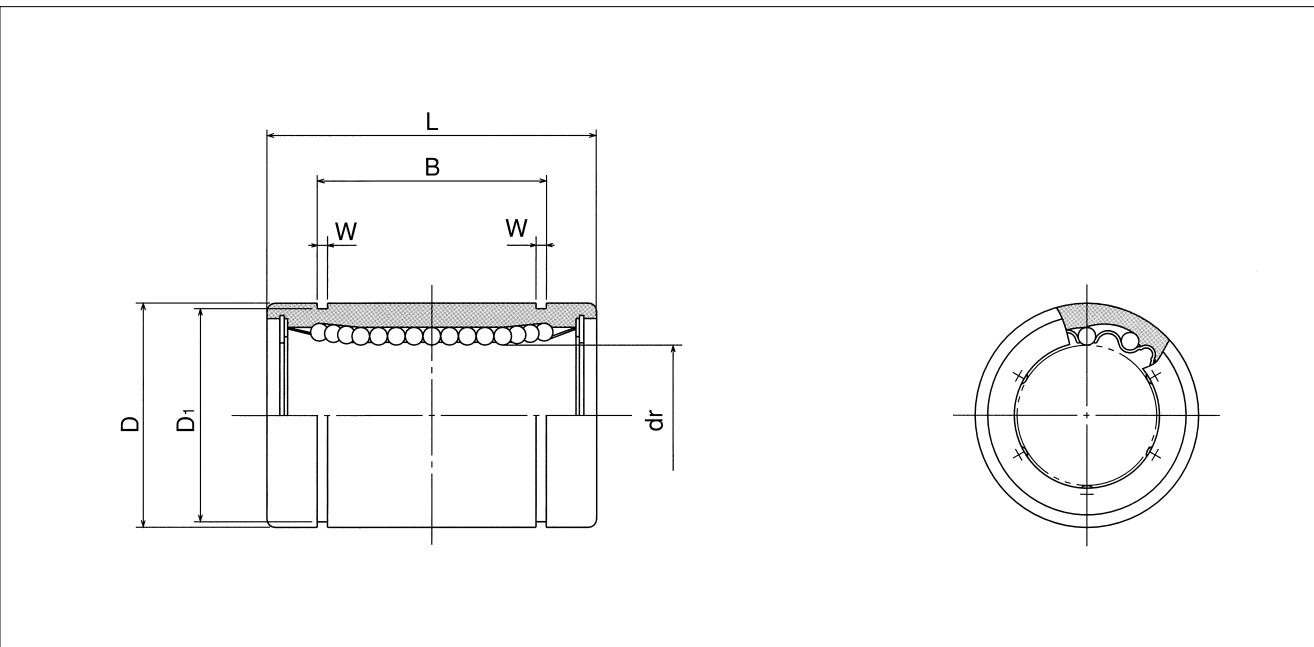
SM TYPE

– Standard Type –

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



| part number | | | | number of ball circuits | mm | dr | | D | |
|----------------|----------------|--------------------|----------------|-------------------------|-----|-------------------------|--------|-----|-------------------------|
| standard | | anticorrosion | | | | tolerance μm | | mm | tolerance μm |
| steel retainer | resin retainer | stainless retainer | resin retainer | | | precision | high | | |
| SM 3 | SM 3G | SMS 3 | SMS 3G | 4 | 3 | 0 | 0 | 7 | 0 |
| SM 4 | SM 4G | SMS 4 | SMS 4G | 4 | 4 | - 5 | - 8 | 8 | - 9 |
| SM 5 | SM 5G | SMS 5 | SMS 5G | 4 | 5 | | | 10 | |
| SM 6 | SM 6G | SMS 6 | SMS 6G | 4 | 6 | | | 12 | 0 |
| SM 8s | SM8sG | SMS8s | SMS8sG | 4 | 8 | | | 15 | - 11 |
| SM 8 | SM 8G | SMS 8 | SMS 8G | 4 | 8 | 0 | 0 | 15 | |
| SM 10 | SM10G | SMS10 | SMS10G | 4 | 10 | - 6 | - 9 | 19 | 0 |
| SM 12 | SM12G | SMS12 | SMS12G | 4 | 12 | | | 21 | - 13 |
| SM 13 | SM13G | SMS13 | SMS13G | 4 | 13 | | | 23 | |
| SM 16 | SM16G | SMS16 | SMS16G | 4 | 16 | | | 28 | |
| SM 20 | SM20G | SMS20 | SMS20G | 5 | 20 | 0 | 0 | 32 | 0 |
| SM 25 | SM25G | SMS25 | SMS25G | 6 | 25 | - 7 | - 10 | 40 | - 16 |
| SM 30 | SM30G | SMS30 | SMS30G | 6 | 30 | | | 45 | |
| SM 35 | SM35G | SMS35 | SMS35G | 6 | 35 | 0 | 0 | 52 | 0 |
| SM 40 | SM40G | SMS40 | SMS40G | 6 | 40 | - 8 | - 12 | 60 | - 19 |
| SM 50 | SM50G | SMS50 | SMS50G | 6 | 50 | | | 80 | |
| SM 60 | SM60G | SMS60 | SMS60G | 6 | 60 | 0 | 0 | 90 | 0 |
| SM 80 | SM80G | - | - | 6 | 80 | - 9 | - 15 | 120 | - 22 |
| SM100 | - | - | - | 6 | 100 | 0 | 0 | 150 | 0 |
| SM120 | - | - | - | 8 | 120 | - 10 | - 20 | 180 | - 25 |
| SM150 | - | - | - | 8 | 150 | 0/- 13 | 0/- 25 | 210 | 0/- 29 |



| major dimensions | | | | | | eccentricity | | radial clearance (maximum) μm | basic load rating | | mass g | shaft diameter mm |
|------------------|----------------------|---------|-----------------|---------|----------------------|-----------------|------------|----------------------------------|-------------------|---------|-----------|----------------------|
| mm | L tolerance mm | B mm | tolerance mm | W mm | D ₁ mm | precision μm | high μm | | C N | Co N | | |
| 10 | 0 | — | — | — | — | 4 | 8 | - 3 | 69 | 105 | 1.4 | 3 |
| 12 | -0.12 | — | — | — | — | | | | 88 | 127 | 2.0 | 4 |
| 15 | -0.12 | 10.2 | 0 | 1.1 | 9.6 | | | | 167 | 206 | 4.0 | 5 |
| 19 | 0 | 13.5 | | 1.1 | 11.5 | 206 | 265 | 8.5 | 6 | | | |
| 17 | | 11.5 | | 1.1 | 14.3 | 176 | 216 | 11 | 8 | | | |
| 24 | | 17.5 | | 1.1 | 14.3 | 274 | 392 | 17 | 8 | | | |
| 29 | | 22 | | 1.3 | 18 | 372 | 549 | 36 | 10 | | | |
| 30 | -0.2 | 23 | -0.2 | 1.3 | 20 | 8 | 12 | - 4 | 510 | 784 | 42 | 12 |
| 32 | 23 | 1.3 | | 22 | 510 | | | | 784 | 49 | 13 | |
| 37 | 26.5 | 1.6 | | 27 | 774 | | | | 1,180 | 76 | 16 | |
| 42 | 30.5 | 1.6 | 30.5 | 882 | 1,370 | 100 | 20 | | | | | |
| 59 | 0 | 41 | 0 | 1.85 | 38 | 10 | 15 | - 6 | 980 | 1,570 | 240 | 25 |
| 64 | | 44.5 | | 1.85 | 43 | | | | 1,570 | 2,740 | 270 | 30 |
| 70 | | 49.5 | | 2.1 | 49 | | | | 1,670 | 3,140 | 425 | 35 |
| 80 | -0.3 | 60.5 | -0.3 | 2.1 | 57 | 12 | 20 | -10 | 2,160 | 4,020 | 654 | 40 |
| 100 | 74 | 2.6 | | 76.5 | 3,820 | | | 7,940 | 1,700 | 50 | | |
| 110 | 85 | 3.15 | | 86.5 | 4,700 | | | 10,000 | 2,000 | 60 | | |
| 140 | 0 | 105.5 | 0 | 4.15 | 116 | 17 | 25 | -20 | 7,350 | 16,000 | 4,520 | 80 |
| 175 | | 125.5 | | 4.15 | 145 | | | 14,100 | 34,800 | 8,600 | 100 | |
| 200 | | 158.6 | | 4.15 | 175 | | | 16,400 | 40,000 | 15,000 | 120 | |
| 240 | -0.4 | 170.6 | -0.4 | 5.15 | 204 | 25 | 40 | -25 | 21,100 | 54,300 | 20,250 | 150 |

1N≐0.102kgf