

SM-AJ TYPE

– Clearance Adjustable Type –



part number structure

example **SMS25G UU-AJ**

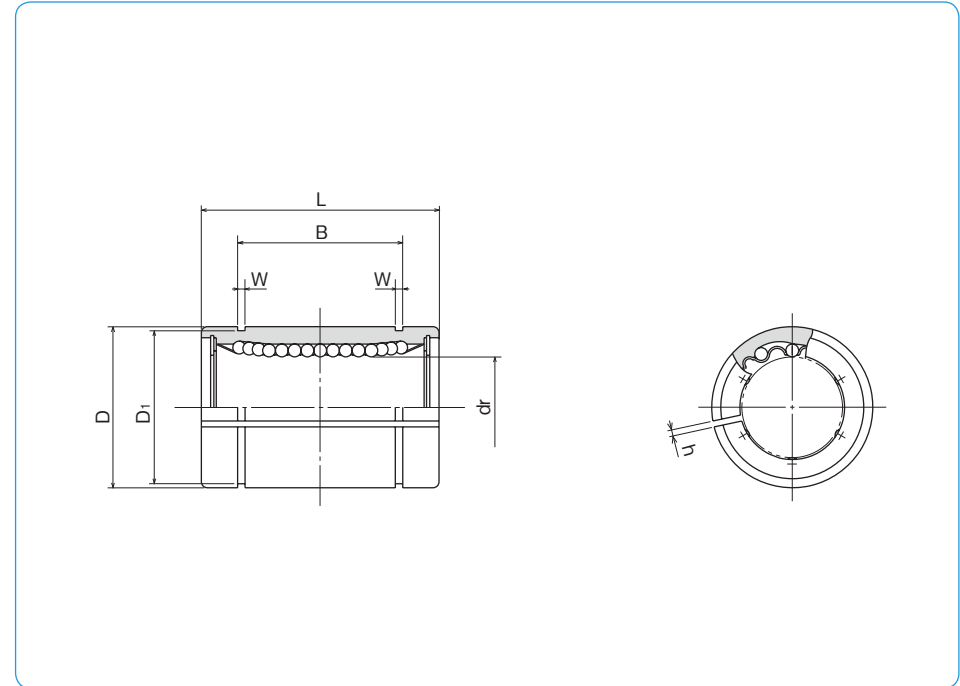
specification
SM: standard
SMS: anti-corrosion

inner contact diameter (dr)

retainer material
blank: standard/steel
 anti-corrosion/stainless steel
G: resin

clearance-adjustable

seal
blank: without seal
U: seal on one side
UU: seals on both sides



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

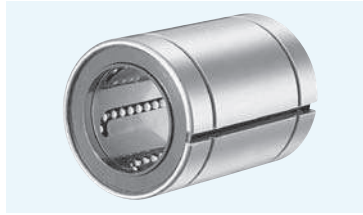
* Accuracy is measured prior to machining clearance slit.

mm	L tolerance mm	B		W mm	D ₁ mm	h mm	eccentricity* μm	basic load rating		mass g	shaft diameter mm
		mm	tolerance mm					dynamic C N	static C ₀ N		
19	0	13.5	-0.2	1.1	11.5	1	12	206	265	7.5	6
17		11.5		1.1	14.3	1		176	216	10	8
24		17.5		1.1	14.3	1		274	392	14.7	8
29		22		1.3	18	1		372	549	29	10
30		23		1.3	20	1.5		510	784	41	12
32		23		1.3	22	1.5		510	784	48	13
37	-0.2	26.5	0	1.6	27	1.5	15	774	1,180	75	16
42		30.5		1.6	30.5	1.5		882	1,370	98	20
59		41		1.85	38	2		980	1,570	237	25
64		44.5		1.85	43	2.5		1,570	2,740	262	30
70	-0.3	49.5	-0.3	2.1	49	2.5	20	1,670	3,140	420	35
80		60.5		2.1	57	3		2,160	4,020	640	40
100		74		2.6	76.5	3		3,820	7,940	1,680	50
110		85		3.15	86.5	3		4,700	10,000	1,980	60
140	-0.4	105.5	0	4.15	116	3	25	7,350	16,000	4,400	80
175		125.5		4.15	145	3		14,100	34,800	8,540	100
200		158.6		4.15	175	3		16,400	40,000	14,900	120
240		170.6		5.15	204	3		21,100	54,300	20,150	150

1N=0.102kgf

KB-AJ TYPE (Euro Standard)

– Clearance Adjustable Type –



part number structure

example **KBS25GUU-AJ**

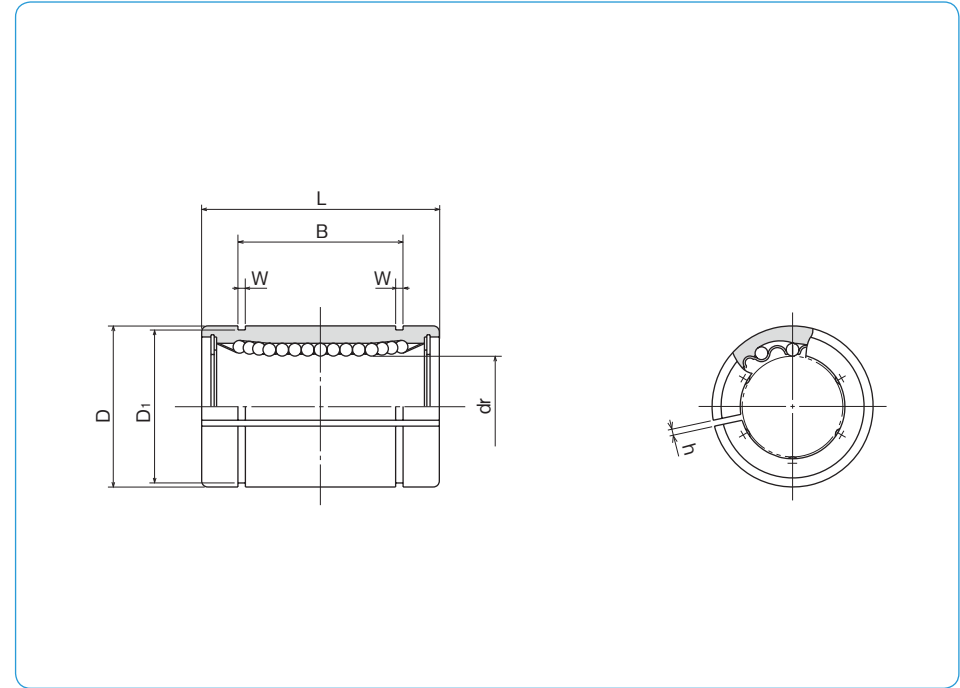
specification
KB: standard
KBS: anti-corrosion

inner contact diameter (dr)

retainer material
blank: standard/steel
 anti-corrosion/stainless steel
G: resin

seal
blank: without seal
U: seal on one side
UU: seals on both sides

clearance-adjustable



part number				number of ball circuits	dr	major dimensions		
standard steel retainer	resin retainer	anti-corrosion stainless retainer	resin retainer			mm	tolerance* μm	D
—	KB 5G-AJ	—	KBS 5G-AJ	4	5		12	0
—	KB 8G-AJ	—	KBS 8G-AJ	4	8	+ 8	16	- 8
—	KB10G-AJ	—	KBS10G-AJ	4	10	0	19	0
KB12-AJ	KB12G-AJ	KBS12-AJ	KBS12G-AJ	4	12		22	0
KB16-AJ	KB16G-AJ	KBS16-AJ	KBS16G-AJ	4	16	+ 9	26	- 9
KB20-AJ	KB20G-AJ	KBS20-AJ	KBS20G-AJ	5	20	- 1	32	0
KB25-AJ	KB25G-AJ	KBS25-AJ	KBS25G-AJ	6	25	+11	40	0
KB30-AJ	KB30G-AJ	KBS30-AJ	KBS30G-AJ	6	30	- 1	47	-11
KB40-AJ	KB40G-AJ	KBS40-AJ	KBS40G-AJ	6	40	+13	62	0
KB50-AJ	KB50G-AJ	KBS50-AJ	KBS50G-AJ	6	50	- 2	75	-13
KB60-AJ	KB60G-AJ	KBS60-AJ	KBS60G-AJ	6	60		90	0
KB80-AJ	—	—	—	6	80	+16/-4	120	-15

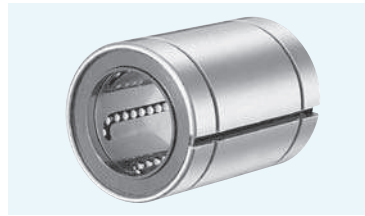
* Accuracy is measured prior to machining clearance slit.

mm	L	B		W	D ₁	h	eccentricity* μm	basic load rating		mass	shaft diameter
	tolerance	mm	tolerance					mm	dynamic C		
22		14.5		1.1	11.5	1	12	206	265	10	5
25		16.5		1.1	15.2	1		265	402	19.5	8
29	0	22	0	1.3	18	1		372	549	29	10
32	-0.2	22.9	-0.2	1.3	21	1.5		510	784	44	12
36		24.9		1.3	24.9	1.5		578	892	59	16
45		31.5		1.6	30.3	2	15	862	1,370	100	20
58		44.1		1.85	37.5	2		980	1,570	230	25
68	0	52.1	0	1.85	44.5	2		1,570	2,740	355	30
80	-0.3	60.6	-0.3	2.15	59	3	17	2,160	4,020	758	40
100		77.6		2.65	72	3		3,820	7,940	1,230	50
125	0	101.7	0	3.15	86.5	3		4,700	9,800	2,170	60
165	-0.4	133.7	-0.4	4.15	116	3	20	7,350	16,000	5,000	80

1N=0.102kgf

SW-AJ TYPE (Inch Standard)

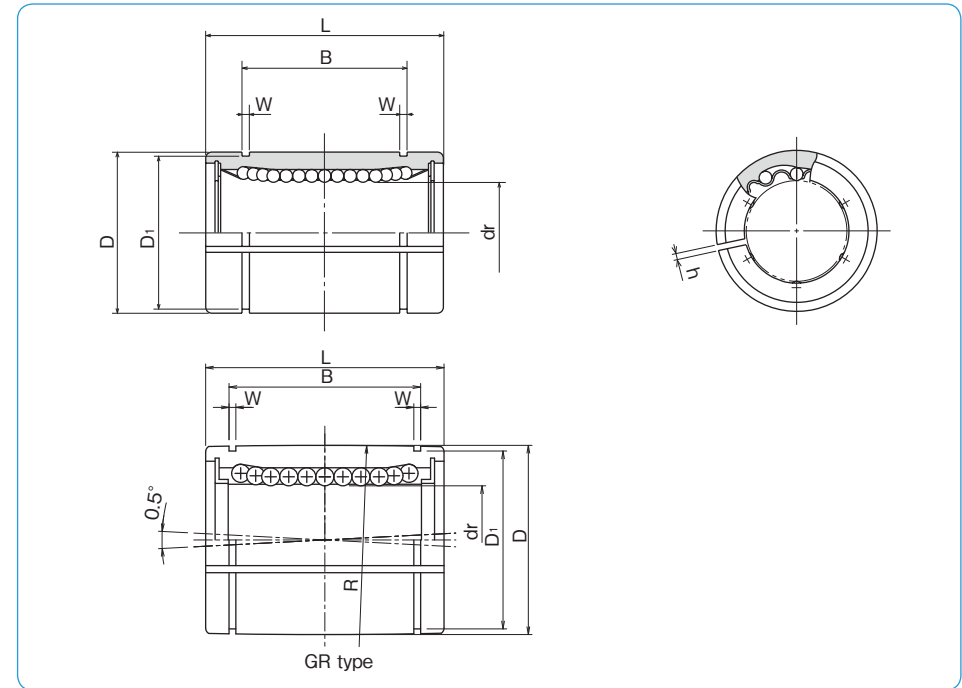
– Clearance Adjustable Type –



part number structure

example **SWS 16 G R UU-AJ**

specification SW: standard SWS: anti-corrosion	clearance-adjustable
size	seal blank: without seal U: seal on one side UU: seals on both sides
retainer material blank: standard/steel anti-corrosion/stainless steel G: resin	self aligning blank: non self aligning R: self aligning



steelretainer	partnumber		number ofball circuits	majordimensions					
	standard resinretainer	anti-corrosion stainless retainer resinretainer		dr		D			
				inch (mm)	tolerance* inch/(μm)	inch (mm)	tolerance* inch/(μm)		
-	SW4G-AJ	-	-	SWS4G-AJ	4	.2500 (6.350)	0	.5000 (12.700)	-0.00045 (-11)
-	SW6G-AJ	-	-	SWS6G-AJ	4	.3750 (9.525)	0	.6250 (15.875)	-0.00040 (-9)
SW8-AJ	SW8G-AJ	SW8GR-AJ	SWS8-AJ	SWS8G-AJ	4	5.000 (12.700)	0	.8750 (22.225)	-0.00050 (-13)
SW10-AJ	SW10G-AJ	SW10GR-AJ	SWS10-AJ	SWS10G-AJ	4	.625 (15.875)	0	1.1250 (28.575)	-0.00065 (-16)
SW12-AJ	SW12G-AJ	SW12GR-AJ	SWS12-AJ	SWS12G-AJ	5	.7500 (19.050)	0	1.2500 (31.750)	-0.00075 (-19)
SW16-AJ	SW16G-AJ	SW16GR-AJ	SWS16-AJ	SWS16G-AJ	6	1.0000 (25.400)	0	1.5625 (39.688)	-0.00060 (-15)
SW20-AJ	SW20G-AJ	SW20GR-AJ	SWS20-AJ	SWS20G-AJ	6	1.2500 (31.750)	0	2.0000 (50.800)	-0.00090 (-22)
SW24-AJ	SW24G-AJ	SW24GR-AJ	SWS24-AJ	SWS24G-AJ	6	1.5000 (38.100)	0	2.3750 (60.325)	-0.00100 (-25)
SW32-AJ	SW32G-AJ	SW32GR-AJ	SWS32-AJ	SWS32G-AJ	6	2.0000 (50.800)	0	3.0000 (76.200)	-0.00100 (-25)
SW40-AJ	-	-	-	-	6	2.5000 (63.500)	0	3.7500 (95.250)	-0.00100 (-25)
SW48-AJ	-	-	-	-	6	3.0000 (76.200)	0	4.5000 (114.300)	-0.00100 (-25)
SW64-AJ	-	-	-	-	6	4.0000 (101.600)	0	6.0000 (152.400)	-0.00100 (-25)

* Accuracy is measured prior to machining clearance slit.

inch (mm)	L tolerance inch/(mm)	B		W inch (mm)	D ₁ inch (mm)	h inch (mm)	eccentricity* inch (μm)	basicloadrating		mass g	shaft diameter inch (mm)
		inch (mm)	tolerance inch/(mm)					dynamic C N	static Co N		
.7500 (19.050)	0	.5100 (12.98)	0	.0390 (0.992)	.4687 (11.906)	.04 (1)	.0005 (12)	206	265	7.5	1/4 (6.350)
.8750 (22.225)		.6358 (12.15)		.0390 (0.992)	.5880 (14.935)	.04 (1)		225	314	13.5	3/8 (9.525)
1.2500 (31.750)	-0.008 (-0.2)	.9625 (24.46)	-0.008 (-0.2)	.0459 (1.168)	.8209 (20.853)	.06 (1.5)	.0006 (15)	510	784	41	1/2 (12.700)
1.5000 (38.100)		1.1039 (28.04)		.0559 (1.422)	1.0590 (26.899)	.06 (1.5)		774	1,180	83	5/8 (15.875)
1.6250 (41.275)	0	1.1657 (29.61)	0	.0559 (1.422)	1.1760 (29.870)	.06 (1.5)	.0008 (20)	862	1,370	102	3/4 (19.050)
2.2500 (57.150)		1.7547 (44.57)		.0679 (1.727)	1.4687 (37.306)	.06 (1.5)		980	1,570	218	1 (25.400)
2.6250 (66.675)	0	2.0047 (50.92)	0	.0679 (1.727)	1.8859 (47.904)	.10 (2.5)	.0010 (25)	1,570	2,740	455	1-1/4 (31.750)
3.0000 (76.200)		2.4118 (61.26)		0.859 (2.184)	2.2389 (56.870)	.12 (3)		2,180	4,020	710	1-1/2 (38.100)
4.0000 (101.600)	-0.012 (-0.3)	3.1917 (81.07)	-0.012 (-0.3)	.1029 (2.616)	2.8379 (72.085)	.12 (3)	.0012 (30)	3,820	7,940	1,290	2 (50.800)
5.0000 (127.000)		3.9760 (100.99)		.1200 (3.048)	3.5519 (90.220)	.12 (3)		4,700	10,000	2,560	2-1/2 (63.500)
6.0000 (152.400)	0	4.726 (120.04)	0	.1200 (3.048)	4.3100 (109.474)	.12 (3)	.0012 (30)	7,350	16,000	4,350	3 (76.200)
8.0000 (203.200)		6.258 (158.95)		.1389 (3.530)	5.745 (145.923)	.12 (3)		14,100	34,800	10,150	4 (101.600)

1N≅0.225lbf 1kg≅2.205lbs