

SMK-W TYPE

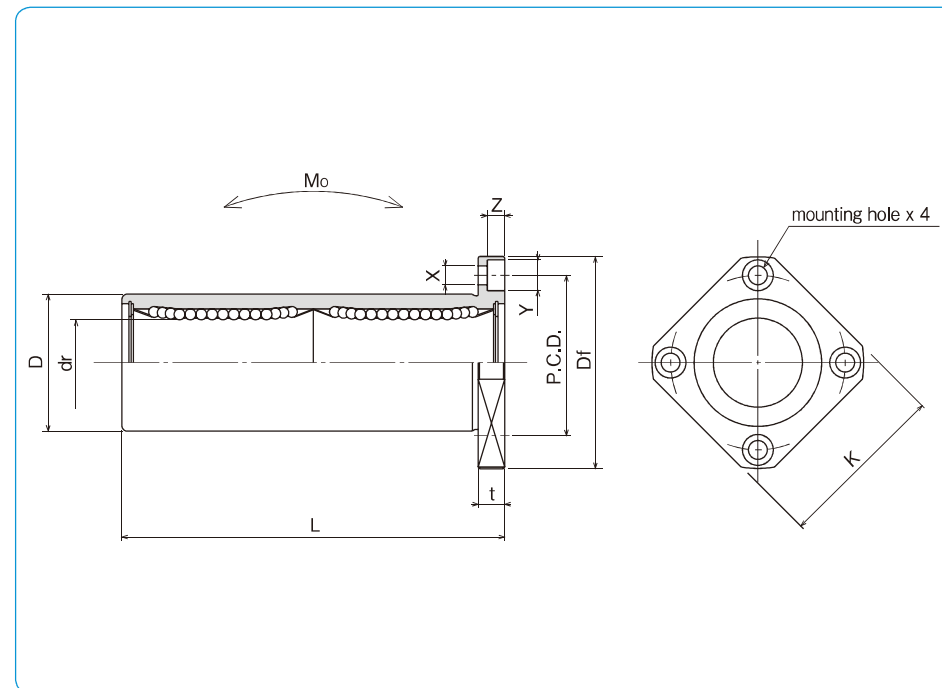
– Square Flange Double-Wide Type –



part number structure

example **SMSK 25 G W UU-SK**

specification SMK: standard SMSK: anti-corrosion	outer cylinder surface treatment blank: no surface treatment SK: electroless nickel plating LF: low temperature black chrome treatment with fluoride coating SB: black oxide (not available on anti-corrosion type) SC: industrial chrome plating
inner contact diameter (dr)	seal blank: without seal UU: seals on both sides
retainer material blank: standard/steel anti-corrosion/stainless steel G: resin	double-wide type



part number				number of ball circuits	dr		major dimensions		
standard steel retainer	resin retainer	anti-corrosion stainless retainer	resin retainer		mm	tolerance μm	D mm	tolerance μm	L ± 0.3 mm
SMK 6W	SMK 6GW	SMSK 6W	SMSK 6GW	4	6	0	12	0	35
SMK 8W	SMK 8GW	SMSK 8W	SMSK 8GW	4	8	-10	15	-13	45
SMK 10W	SMK 10GW	SMSK 10W	SMSK 10GW	4	10	0	19	0	55
SMK 12W	SMK 12GW	SMSK 12W	SMSK 12GW	4	12	-10	21	0	57
SMK 13W	SMK 13GW	SMSK 13W	SMSK 13GW	4	13	0	23	-16	61
SMK 16W	SMK 16GW	SMSK 16W	SMSK 16GW	4	16	-10	28	0	70
SMK 20W	SMK 20GW	SMSK 20W	SMSK 20GW	5	20	0	32	0	80
SMK 25W	SMK 25GW	SMSK 25W	SMSK 25GW	6	25	-12	40	-19	112
SMK 30W	SMK 30GW	SMSK 30W	SMSK 30GW	6	30	0	45	0	123
SMK 35W	SMK 35GW	SMSK 35W	SMSK 35GW	6	35	-10	52	0	135
SMK 40W	SMK 40GW	SMSK 40W	SMSK 40GW	6	40	0	60	0	151
SMK 50W	SMK 50GW	SMSK 50W	SMSK 50GW	6	50	-15	80	-22	192
SMK 60W	SMK 60GW	SMSK 60W	SMSK 60GW	6	60	0/-20	90	0/-25	209

Df mm	K mm	flange			eccentricity μm	perpendicularity μm	basic load rating		allowable static moment $\text{N} \cdot \text{m}$	mass g	shaft diameter mm
		t mm	P.C.D. mm	X × Y × Z mm			dynamic C N	static Co N			
28	22	5	20	3.5 × 6 × 3.1	15	15	323	530	2.18	25	6
32	25	5	24	3.5 × 6 × 3.1			431	784	4.31	43	8
40	30	6	29	4.5 × 7.5 × 4.1			588	1,100	7.24	78	10
42	32	6	32	4.5 × 7.5 × 4.1			813	1,570	10.9	90	12
43	34	6	33	4.5 × 7.5 × 4.1			813	1,570	11.6	108	13
48	37	6	38	4.5 × 7.5 × 4.1			1,230	2,350	19.7	165	16
54	42	8	43	5.5 × 9 × 5.1	20	20	1,400	2,740	26.8	225	20
62	50	8	51	5.5 × 9 × 5.1			1,560	3,140	43.4	500	25
74	58	10	60	6.6 × 11 × 6.1			2,490	5,490	82.8	590	30
82	64	10	67	6.6 × 11 × 6.1			2,650	6,270	110	930	35
96	75	13	78	9 × 14 × 8.1			3,430	8,040	147	1,380	40
116	92	13	98	9 × 14 × 8.1			6,080	15,900	397	3,400	50
134	106	18	112	11 × 17 × 11.1	30	30	7,550	20,000	530	4,060	60

1N ≅ 0.102kgf 1N · m ≅ 0.102kgf · m

KBK-W TYPE (Euro Standard)

– Square Flange Double-Wide Type –



part number structure

example **KBSK 25 G W UU-SK**

specification
KBK: standard
KBSK: anti-corrosion

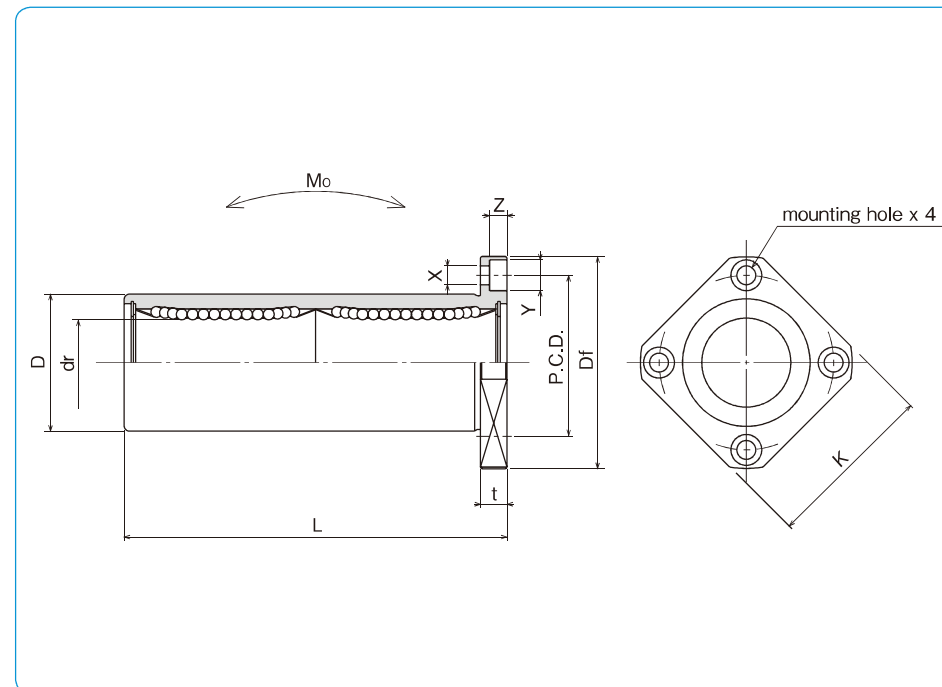
inner contact diameter (dr)

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

outer cylinder surface treatment
blank: no surface treatment
SK: electroless nickel plating
LF: low temperature black chrome treatment with fluoride coating
SB: black oxide (not available on anti-corrosion type)
SC: industrial chrome plating

seal
blank: without seal
UU: seals on both sides

double-wide type



part number				number of ball circuits	dr		major dimensions		
standard steel retainer	resin retainer	anti-corrosion stainless retainer	resin retainer		mm	tolerance μm	D mm	tolerance μm	L ± 0.3 mm
KBK 8W	KBK 8GW	KBSK 8W	KBSK 8GW	4	8	+ 9	16	0/-13	46
KBK 12W	KBK 12GW	KBSK 12W	KBSK 12GW	4	12	- 1	22	0	61
KBK 16W	KBK 16GW	KBSK 16W	KBSK 16GW	4	16	+11	26	-16	68
KBK20W	KBK20GW	KBSK20W	KBSK20GW	5	20	- 1	32	0	80
KBK25W	KBK25GW	KBSK25W	KBSK25GW	6	25	+13	40	-19	112
KBK30W	KBK30GW	KBSK30W	KBSK30GW	6	30	- 2	47	0	123
KBK40W	KBK40GW	KBSK40W	KBSK40GW	6	40	+16	62	0	151
KBK50W	KBK50GW	KBSK50W	KBSK50GW	6	50	- 4	75	-22	192
KBK60W	KBK60GW	KBSK60W	KBSK60GW	6	60		90	0/-25	209

Df mm	K mm	flange			eccentricity μm	perpendicularity μm	basic load rating		allowable static moment M_o N·m	mass g	shaft diameter mm
		t mm	P.C.D. mm	X×Y×Z mm			dynamic C N	static Co N			
32	25	5	24	3.5×6×3.1	15	15	421	804	4.3	51	8
42	32	6	32	4.5×7.5×4.1			813	1,570	11.7	90	12
46	35	6	36	4.5×7.5×4.1			921	1,780	14.2	135	16
54	42	8	43	5.5×9×5.1	17	17	1,370	2,740	25.0	225	20
62	50	8	51	5.5×9×5.1			1,570	3,140	44.0	500	25
76	60	10	62	6.6×11×6.1			2,500	5,490	78.9	720	30
98	75	13	80	9×14×8.1	20	20	3,430	8,040	147	1,600	40
112	88	13	94	9×14×8.1			6,080	15,900	396	2,620	50
134	106	18	112	11×17×11.1			7,550	20,000	487	4,480	60

1N \approx 0.102kgf 1N · m \approx 0.102kgf · m

SWK-W TYPE (Inch Standard)

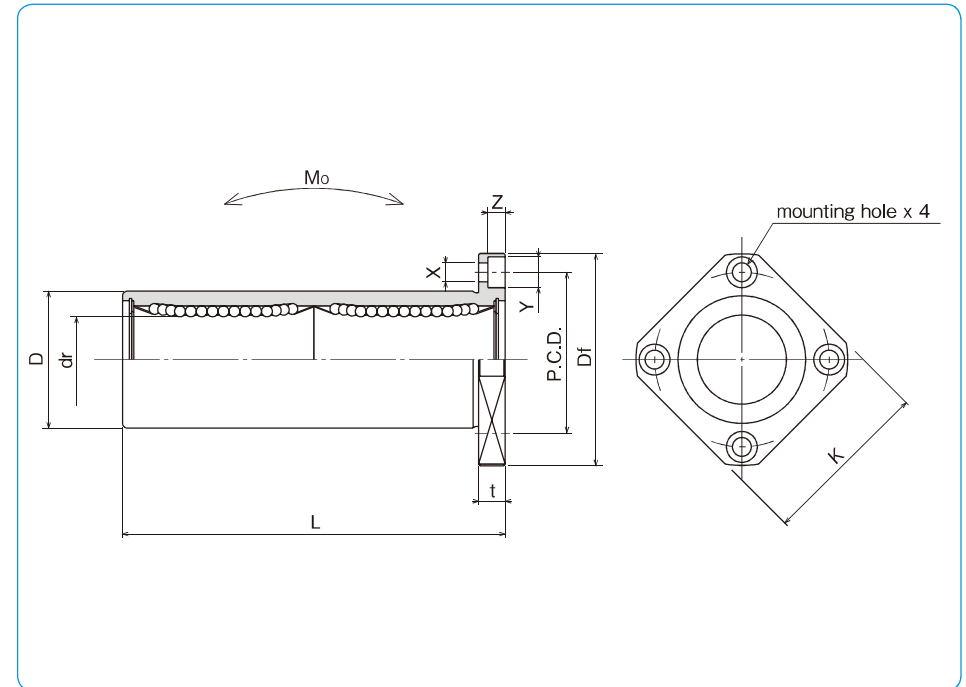
– Square Flange Double-Wide Type –



part number structure

example **SWSK 16 G W UU-SK**

specification SWK : standard SWSK : anti-corrosion	size	retainer material blank : standard/steel anti-corrosion/stainless steel G : resin	seal blank : without seal UU : seals on both sides	outer cylinder surface treatment blank : no surface treatment SK : electroless nickel plating LF : low temperature black chrome treatment with fluoride coating SB : black oxide (not available on anti-corrosion type) SC : industrial chrome plating	double-wide type
--	------	--	--	--	------------------



part number				number of ball circuits	major dimensions				
standard steel retainer	anti-corrosion resin retainer	stainless retainer	resin retainer		dr	D		L	
				inch (mm)	tolerance inch/(μm)	inch (mm)	tolerance inch/(μm)	±.012 (±0.3) inch/(mm)	
SWK 4W	SWK 4GW	SWSK 4W	SWSK 4GW	4	.2500 (6.350)		.5000 (12.700)	1.3750 (34.925)	
SWK 6W	SWK 6GW	SWSK 6W	SWSK 6GW	4	.3750 (9.525)	0 (-10)	.6250 (15.875)	1.5938 (40.481)	
SWK 8W	SWK 8GW	SWSK 8W	SWSK 8GW	4	.5000 (12.700)	0 (-10)	.8750 (22.225)	2.3750 (60.325)	
SWK 10W	SWK 10GW	SWSK 10W	SWSK 10GW	4	.6250 (15.875)		1.1250 (28.575)	2.8125 (71.438)	
SWK 12W	SWK 12GW	SWSK 12W	SWSK 12GW	5	.7500 (19.050)	0 (-10)	1.2500 (31.750)	3.0937 (78.581)	
SWK 16W	SWK 16GW	SWSK 16W	SWSK 16GW	6	1.0000 (25.400)	0 (-12)	1.5625 (39.688)	4.2813 (108.744)	
SWK 20W	SWK 20GW	SWSK 20W	SWSK 20GW	6	1.2500 (31.750)	0 (-15)	2.0000 (50.800)	5.0000 (127.000)	
SWK 24W	SWK 24GW	SWSK 24W	SWSK 24GW	6	1.5000 (38.100)	0 (-15)	2.3750 (60.325)	5.6875 (144.463)	
SWK 32W	SWK 32GW	SWSK 32W	SWSK 32GW	6	2.0000 (50.800)	0 (-25)	3.0000 (76.200)	7.7500 (196.850)	

flange					eccentricity inch (μm)	perpendicularity inch (μm)	basic load rating		allowable static moment Mo N·m	mass g	shaft diameter inch/(mm)
Df	K	t	P.C.D.	X×Y×Z			dynamic C N	static Co N			
1.2500 (31.750)	1.0000 (25.400)	.2188 (5.556)	.8750 (22.225)	.1563×.2500×.1406 (3.969×6.350×3.572)	.0006 (15)	.0006 (15)	323	530	2.0	33 (6.350)	
1.5000 (38.100)	1.2500 (31.750)	.2500 (6.350)	1.0625 (26.988)	.1875×.2969×.1719 (4.763×7.541×4.366)			353	630	2.7	45 (9.525)	
1.7500 (44.450)	1.3750 (34.925)	.2500 (6.350)	1.3125 (33.338)	.1875×.2969×.1719 (4.763×7.541×4.366)			813	1,570	11.5	106 (12.700)	
2.0000 (50.800)	1.5000 (38.100)	.2500 (6.350)	1.5625 (39.688)	.1875×.2969×.1719 (4.763×7.541×4.366)			1,230	2,350	20.0	200 (15.875)	
2.1875 (55.563)	1.6875 (42.863)	.3125 (7.938)	1.7188 (43.656)	2.188×.3438×.2031 (5.556×8.731×5.159)	.0008 (20)	.0008 (20)	1,370	2,740	26.5	240 (19.050)	
2.5000 (63.500)	2.0000 (50.800)	.3125 (7.938)	2.0313 (51.594)	2.188×.3438×.2031 (5.556×8.731×5.159)			1,570	3,140	41.2	470 (25.400)	
3.1250 (79.375)	2.5000 (63.500)	.3750 (9.525)	2.5625 (65.088)	2.813×.4063×.2656 (7.144×10.319×6.747)			2,500	5,490	84.8	935 (31.750)	
3.7500 (95.250)	3.0000 (76.200)	.5000 (12.700)	3.0625 (77.788)	3.437×.5000×.3281 (8.731×12.700×8.334)			3,430	8,040	143	1,460 (38.100)	
4.3750 (111.125)	3.5000 (88.900)	.5000 (12.700)	3.6875 (93.662)	3.437×.5000×.3281 (8.731×12.700×8.334)	.0012 (30)	.0012 (30)	6,080	15,900	399	2,620 (50.800)	

1N=0.225lbf 1N·m=0.738lb·ft
1kg=2.205lbs