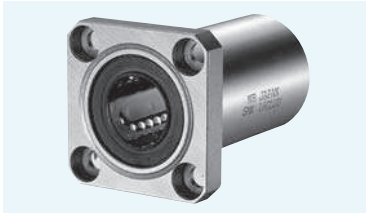
SMK-G-L TYPE

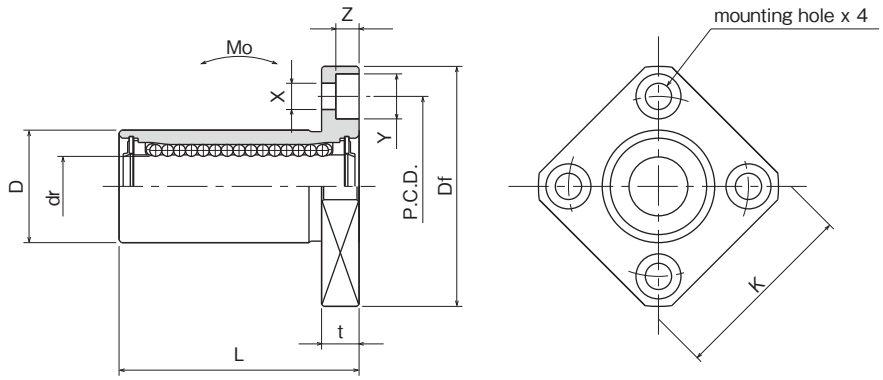
– Square Flange Long type –



part number structure

example SMK 25 G - L UU - SK

- SMK type
- inner contact diameter (dr)
- resin retainer
- long type
- 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



part number*	number of ball circuits	major dimensions: dr mm	dr tolerance μm	D mm	D tolerance μm	L ±0.3 mm	Df mm	K mm	flange t mm	flange P.C.D. mm
SMK 6G-LUU	4	6	0 −10	12	0 −13	26	28	22	5	20
SMK 8G-LUU	4	8		15		32	32	25	5	24
SMK10G-LUU	4	10		19	0 −16	39	40	30	6	29
SMK12G-LUU	4	12		21		41	42	32	6	32
SMK13G-LUU	4	13		23		45	43	34	6	33
SMK16G-LUU	4	16		28		53	48	37	6	38
SMK20G-LUU	5	20	0 −12	32	0 −19	59	54	42	8	43
SMK25G-LUU	6	25		40		83	62	50	8	51
SMK30G-LUU	6	30		45		90	74	58	10	60

* UU type is standard.

X×Y×Z mm	eccentricity μm	perpendicularity μm	basic load rating dynamic C N	basic load rating static Co N	allowable static moment Mo N・m	mass g	shaft diameter mm
3.5×6×3.1	15	15	262	476	1.15	20	6
3.5×6×3.1			352	615	1.94	32	8
4.5×7.5×4.1			493	1,005	3.98	59	10
4.5×7.5×4.1			637	1,430	6.26	67	12
4.5×7.5×4.1			682	1,560	7.68	88	13
4.5×7.5×4.1			1,039	2,350	13.2	125	16
5.5×9×5.1	20	20	1,160	2,740	17.9	170	20
5.5×9×5.1			1,300	2,960	27.2	380	25
6.6×11×6.1			2,160	5,880	61.3	460	30

1N≒0.102kgf 1N・m≒0.102kgf・m

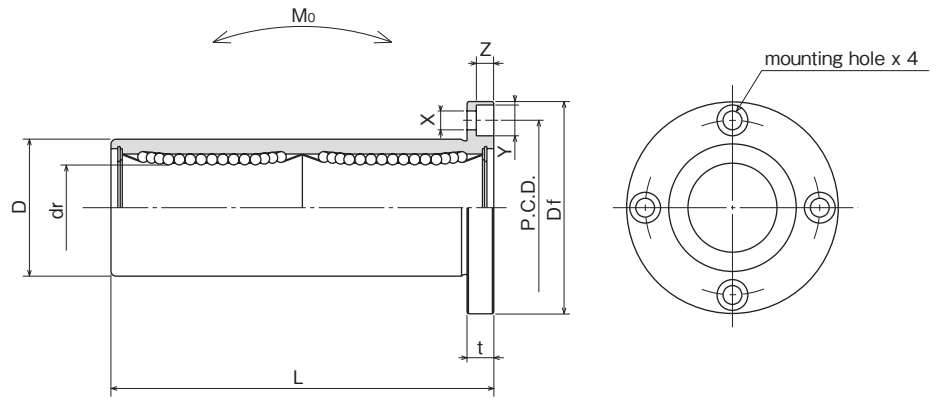
SMF-W TYPE

– Round Flange Double-Wide Type –

part number structure

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

- specification
  SMF: standard
  SMSF: anti-corrosion
- inner contact diameter (dr)
- 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



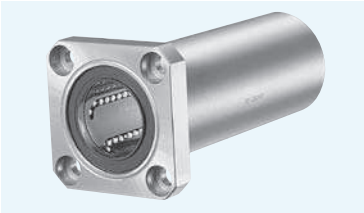
part number				number of ball circuits	major dimensions				
standard		anti-corrosion			dr		D		L
steel retainer	resin retainer	stainless retainer	resin retainer		mm	tolerance μm	mm	tolerance μm	±0.3 mm
SMF 6W	SMF 6GW	SMSF 6W	SMSF 6GW	4	6	0 −10	12	0 −13	35
SMF 8W	SMF 8GW	SMSF 8W	SMSF 8GW	4	8		15		45
SMF10W	SMF10GW	SMSF10W	SMSF10GW	4	10		19	0 −16	55
SMF12W	SMF12GW	SMSF12W	SMSF12GW	4	12		21		57
SMF13W	SMF13GW	SMSF13W	SMSF13GW	4	13		23		61
SMF16W	SMF16GW	SMSF16W	SMSF16GW	4	16		28		70
SMF20W	SMF20GW	SMSF20W	SMSF20GW	5	20	0 −12	32	0 −19	80
SMF25W	SMF25GW	SMSF25W	SMSF25GW	6	25		40		112
SMF30W	SMF30GW	SMSF30W	SMSF30GW	6	30		45		123
SMF35W	SMF35GW	SMSF35W	SMSF35GW	6	35	0 −15	52	0 −22	135
SMF40W	SMF40GW	SMSF40W	SMSF40GW	6	40		60		151
SMF50W	SMF50GW	SMSF50W	SMSF50GW	6	50		80		192
SMF60W	SMF60GW	SMSF60W	SMSF60GW	6	60	0/−20	90	0/−25	209

flange				eccentricity	perpendicularity	basic load rating		allowable	mass	shaft diameter
Df mm	t mm	P.C.D. mm	X×Y×Z mm	μm	μm	dynamic C N	static Co N	static moment Mo N・m	g	mm
28	5	20	3.5×6×3.1	15	15	323	530	2.18	31	6
32	5	24	3.5×6×3.1			431	784	4.31	51	8
40	6	29	4.5×7.5×4.1			588	1,100	7.24	98	10
42	6	32	4.5×7.5×4.1			813	1,570	10.9	110	12
43	6	33	4.5×7.5×4.1			813	1,570	11.6	130	13
48	6	38	4.5×7.5×4.1			1,230	2,350	19.7	190	16
54	8	43	5.5×9×5.1	20	20	1,400	2,740	26.8	260	20
62	8	51	5.5×9×5.1			1,560	3,140	43.4	540	25
74	10	60	6.6×11×6.1			2,490	5,490	82.8	680	30
82	10	67	6.6×11×6.1	25	25	2,650	6,270	110	1,020	35
96	13	78	9×14×8.1			3,430	8,040	147	1,570	40
116	13	98	9×14×8.1			6,080	15,900	397	3,600	50
134	18	112	11×17×11.1	30	30	7,550	20,000	530	4,500	60

1N≒0.102kgf　1N・m≒0.102kgf・m

SMK-W TYPE

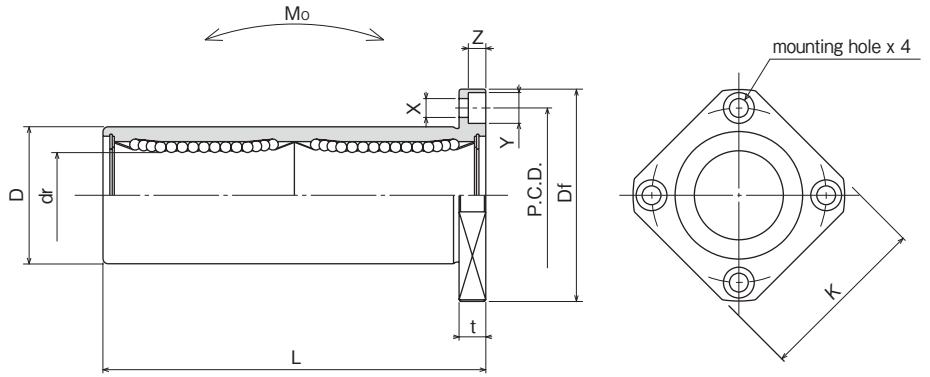
– Square Flange Double-Wide Type –



part number structure

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

- specification
  SMK: standard
  SMSK: anti-corrosion
- inner contact diameter (dr)
- 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



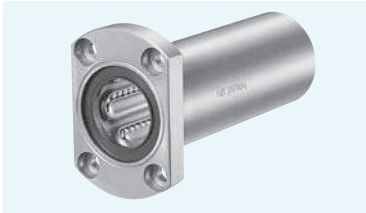
part number				number of ball circuits	major dimensions				
standard		anti-corrosion			dr		D		L
steel retainer	resin retainer	stainless retainer	resin retainer		mm	tolerance μm	mm	tolerance μm	±0.3 mm
SMK 6W	SMK 6GW	SMSK 6W	SMSK 6GW	4	6	0 −10	12	0 −13	35
SMK 8W	SMK 8GW	SMSK 8W	SMSK 8GW	4	8		15		45
SMK10W	SMK10GW	SMSK10W	SMSK10GW	4	10		19	0 −16	55
SMK12W	SMK12GW	SMSK12W	SMSK12GW	4	12		21		57
SMK13W	SMK13GW	SMSK13W	SMSK13GW	4	13		23		61
SMK16W	SMK16GW	SMSK16W	SMSK16GW	4	16		28		70
SMK20W	SMK20GW	SMSK20W	SMSK20GW	5	20	0 −12	32	0 −19	80
SMK25W	SMK25GW	SMSK25W	SMSK25GW	6	25		40		112
SMK30W	SMK30GW	SMSK30W	SMSK30GW	6	30		45		123
SMK35W	SMK35GW	SMSK35W	SMSK35GW	6	35	0 −15	52	0 −22	135
SMK40W	SMK40GW	SMSK40W	SMSK40GW	6	40		60		151
SMK50W	SMK50GW	SMSK50W	SMSK50GW	6	50		80		192
SMK60W	SMK60GW	SMSK60W	SMSK60GW	6	60	0/−20	90	0/−25	209

flange					eccentricity	perpendicularity	basic load rating		allowable	mass	shaft diameter
Df mm	K mm	t mm	P.C.D. mm	X×Y×Z mm	μm	μm	dynamic C N	static Co N	static moment Mo N・m	g	mm
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	25	25	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

SMT-W TYPE

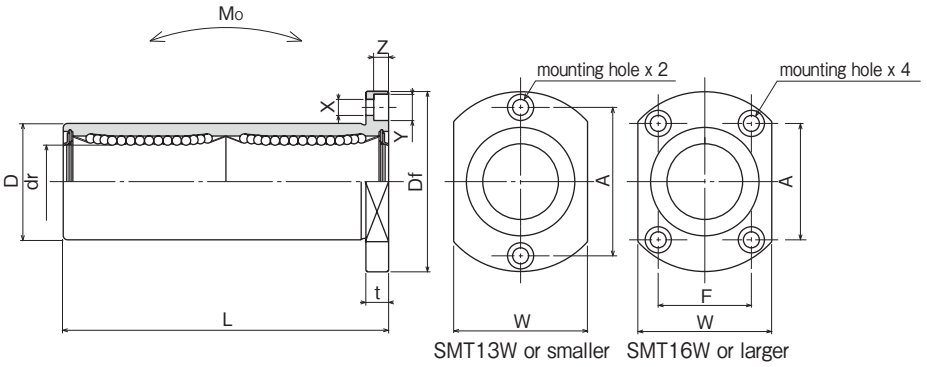
– Two Side Cut Double-Wide Flange Type –



part number structure

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

- specification
  SMT: standard
  SMST: anti-corrosion
- inner contact diameter (dr)
- retainer material
  blank: standard/steel
  anti-corrosion/stainless steel
  G: resin
- double-wide type
- 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



part number*				number of ball circuits	major dimensions				
standard		anti-corrosion			dr		D		L
steel retainer	resin retainer	stainless retainer	resin retainer		mm	tolerance μm	mm	tolerance μm	±0.3 mm
SMT 6WUU	SMT 6GWUU	SMST 6WUU	SMST 6GWUU	4	6	0 −10	12	0 −13	35
SMT 8WUU	SMT 8GWUU	SMST 8WUU	SMST 8GWUU	4	8		15		45
SMT10WUU	SMT10GWUU	SMST10WUU	SMST10GWUU	4	10		19	0 −16	55
SMT12WUU	SMT12GWUU	SMST12WUU	SMST12GWUU	4	12		21		57
SMT13WUU	SMT13GWUU	SMST13WUU	SMST13GWUU	4	13		23		61
SMT16WUU	SMT16GWUU	SMST16WUU	SMST16GWUU	4	16		28		70
SMT20WUU	SMT20GWUU	SMST20WUU	SMST20GWUU	5	20	0 −12	32	0 −19	80
SMT25WUU	SMT25GWUU	SMST25WUU	SMST25GWUU	6	25		40		112
SMT30WUU	SMT30GWUU	SMST30WUU	SMST30GWUU	6	30		45		123

* UU type is standard.

flange						eccentricity	perpendicularity	basic load rating		allowable	mass	shaft diameter
Df mm	W mm	t mm	A mm	F mm	X×Y×Z mm	μm	μm	dynamic C N	static Co N	static moment Mo N・m	g	mm
28	18	5	20	—	3.5×6×3.1	15	15	323	530	2.18	28	6
32	21	5	24	—	3.5×6×3.1			431	784	4.31	47	8
40	25	6	29	—	4.5×7.5×4.1			588	1,100	7.24	90	10
42	27	6	32	—	4.5×7.5×4.1			813	1,570	10.9	102	12
43	29	6	33	—	4.5×7.5×4.1			813	1,570	11.6	123	13
48	34	6	31	22	4.5×7.5×4.1			1,230	2,350	19.7	182	16
54	38	8	36	24	5.5×9×5.1	20	20	1,400	2,740	26.8	247	20
62	46	8	40	32	5.5×9×5.1			1,560	3,140	43.4	525	25
74	51	10	49	35	6.6×11×6.1			2,490	5,490	82.8	645	30

1N≒0.102kgf 1N・m≒0.102kgf・m

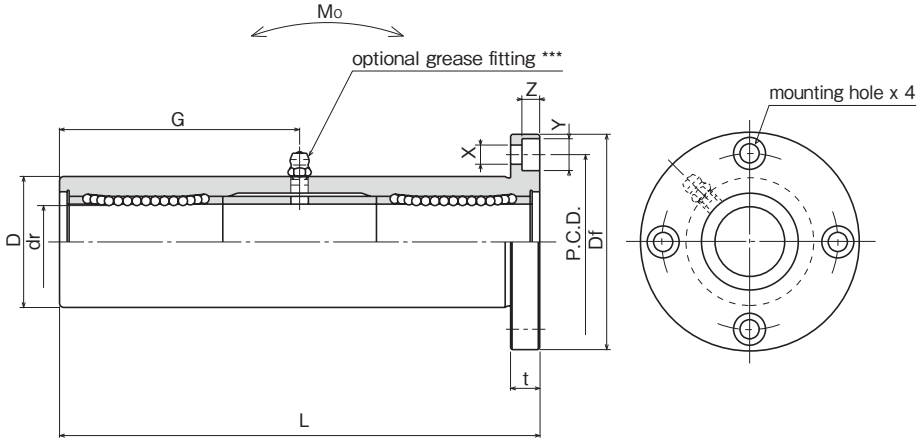
TRF TYPE

– Triple-Wide Round Flange Type –

part number structure

example **TRF 25 G UU - Q**

- TRF type
- inner contact diameter (dr)
- retainer material **blank**: steel **G**: resin
- seals on both sides
- grease fitting **blank**: without **Q**: grease fitting



part number* steel retainer	part number* resin retainer	number of ball circuits	major dimensions dr mm	dr tolerance μm	D mm	D tolerance μm	L ±0.3 mm
TRF 6UU	TRF 6GUU	4	6	0 −12	15	0/−18	51
TRF 8UU	TRF 8GUU	4	8		19	0 −21	66
TRF10UU	TRF10GUU	4	10		23		80
TRF12UU	TRF12GUU	4	12	0 −15	26		84
TRF13UU	TRF13GUU	4	13		28		90
TRF16UU	TRF16GUU	4	16		32	0 −25	103
TRF20UU	TRF20GUU	5	20	0 −18	40		118
TRF25UU	TRF25GUU	6	25		45		165
TRF30UU	TRF30GUU	6	30		52	0 −30	182
TRF35UU	TRF35GUU	6	35	0 −21	60		200
TRF40UU	TRF40GUU	6	40		65		230
TRF50UU	TRF50GUU	6	50		85	0 −35	290
TRF60UU	TRF60GUU	6	60	0/−25	100		310

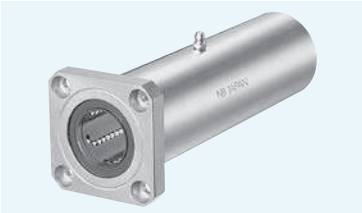
* UU type is standard.
** Outer cylinder is treated with electroless nickel plating.
*** TRF6～8: A-M6x1 TRF10～30: A-M6F TRF35～60: A-R1/8

flange Df mm	flange t mm	flange P.C.D. mm	flange X×Y×Z mm	grease fitting G mm	eccentricity μm	perpendicularity μm	basic load rating dynamic C N	basic load rating static Co N	allowable static moment Mo N・m	mass g	shaft diameter mm
32	5	24	3.5×6×3.1	20.5	20	20	323	530	8.2	66	6
40	6	29	4.5×7.5×4.1	29			431	784	16.0	135	8
43	6	33	4.5×7.5×4.1	38			588	1,100	27.0	205	10
46	6	36	4.5×7.5×4.1	41			813	1,570	40.1	248	12
48	6	38	4.5×7.5×4.1	45			813	1,570	42.9	308	13
54	8	43	5.5×9×5.1	51	25	25	1,230	2,350	73.5	412	16
62	8	51	5.5×9×5.1	59			1,400	2,740	98.0	752	20
74	10	60	6.6×11×6.1	82.5			1,560	3,140	157	1,244	25
82	10	67	6.6×11×6.1	91			2,490	5,490	297	1,636	30
96	13	78	9×14×8.1	100	30	30	2,650	6,270	373	2,580	35
101	13	83	9×14×8.1	115			3,430	8,040	553	2,950	40
129	18	107	11×17×11.1	145			6,080	15,900	1,370	6,860	50
144	18	122	11×17×11.1	155			7,550	20,000	1,800	9,660	60

1N≒0.102kgf 1N・m≒0.102kgf・m

TRK TYPE

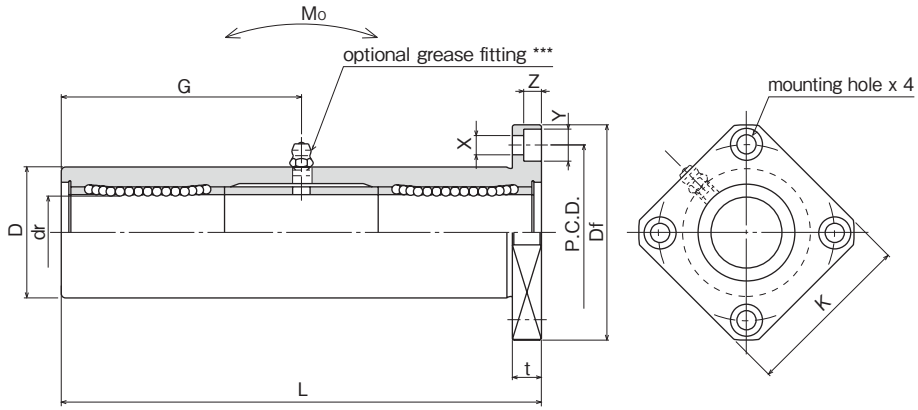
– Triple-Wide Square Flange Type –



part number structure

example TRK 25 G UU - Q

- TRK type
- inner contact diameter (dr)
- retainer material
  blank: steel
  G: resin
- seals on both sides
- grease fitting
  blank: without
  Q: grease fitting



part number* steel retainer	part number* resin retainer	number of ball circuits	major dimensions dr mm	dr tolerance μm	D mm	D tolerance μm	L ±0.3 mm
TRK 6UU	TRK 6GUU	4	6	0 −12	15	0/−18	51
TRK 8UU	TRK 8GUU	4	8		19		66
TRK10UU	TRK10GUU	4	10		23	0 −21	80
TRK12UU	TRK12GUU	4	12	0 −15	26		84
TRK13UU	TRK13GUU	4	13		28		90
TRK16UU	TRK16GUU	4	16		32	0 −25	103
TRK20UU	TRK20GUU	5	20	0 −18	40		118
TRK25UU	TRK25GUU	6	25		45		165
TRK30UU	TRK30GUU	6	30		52	0 −30	182
TRK35UU	TRK35GUU	6	35	0 −21	60		200
TRK40UU	TRK40GUU	6	40		65		230
TRK50UU	TRK50GUU	6	50		85	0 −35	290
TRK60UU	TRK60GUU	6	60	0/−25	100		310

* UU type is standard.
** Outer cylinder is treated with electroless nickel plating.
*** TRK6～8: A-M6x1 TRK10～30: A-M6F TRK35～60: A-R1/8

flange Df mm	flange K mm	flange t mm	flange P.C.D. mm	flange X×Y×Z mm	grease fitting G mm	eccentricity μm	perpendicularity μm	basic load rating dynamic C N	basic load rating static Co N	allowable static moment Mo N・m	mass g	shaft diameter mm
32	25	5	24	3.5×6×3.1	20.5	20	20	323	530	8.2	58	6
40	30	6	29	4.5×7.5×4.1	29			431	784	16.0	117	8
43	34	6	33	4.5×7.5×4.1	38			588	1,100	27.0	189	10
46	35	6	36	4.5×7.5×4.1	41			813	1,570	40.1	228	12
48	37	6	38	4.5×7.5×4.1	45			813	1,570	42.9	286	13
54	42	8	43	5.5×9×5.1	51	25	25	1,230	2,350	73.5	376	16
62	50	8	51	5.5×9×5.1	59			1,400	2,740	98.0	714	20
74	58	10	60	6.6×11×6.1	82.5			1,560	3,140	157	1,163	25
82	64	10	67	6.6×11×6.1	91			2,490	5,490	297	1,543	30
96	75	13	78	9×14×8.1	100	30	30	2,650	6,270	373	2,400	35
101	80	13	83	9×14×8.1	115			3,430	8,040	553	2,510	40
129	100	18	107	11×17×11.1	145			6,080	15,900	1,370	6,400	50
144	116	18	122	11×17×11.1	155			7,550	20,000	1,800	9,200	60

1N≒0.102kgf 1N・m≒0.102kgf・m

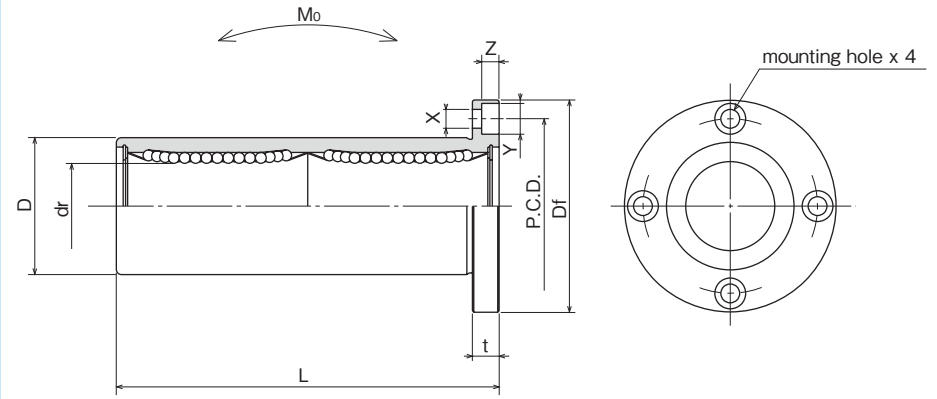
KBF-W TYPE (Euro Standard)

– Round Flange Double-Wide Type –

part number structure

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

- **KBSF**: specification — **KBF**: standard; **KBSF**: anti-corrosion
- **25**: inner contact diameter (dr)
- **G**: retainer material — **blank**: standard/steel; anti-corrosion/stainless steel; **G**: resin
- **W**: double-wide type
- **UU**: seal — **blank**: without seal; **UU**: seals on both sides
- **SK**: 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



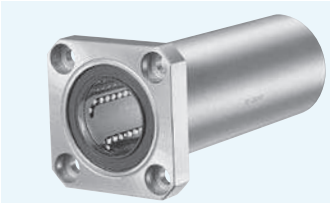
part number				number of ball circuits	major dimensions				
standard		anti-corrosion			dr		D		L
steel retainer	resin retainer	stainless retainer	resin retainer		mm	tolerance μm	mm	tolerance μm	±0.3 mm
KBF 8W	KBF 8GW	KBSF 8W	KBSF 8GW	4	8	+ 9	16	0/−13	46
KBF12W	KBF12GW	KBSF12W	KBSF12GW	4	12	− 1	22	0	61
KBF16W	KBF16GW	KBSF16W	KBSF16GW	4	16	+11	26	−16	68
KBF20W	KBF20GW	KBSF20W	KBSF20GW	5	20	− 1	32	0	80
KBF25W	KBF25GW	KBSF25W	KBSF25GW	6	25	+13	40	−19	112
KBF30W	KBF30GW	KBSF30W	KBSF30GW	6	30	− 2	47		123
KBF40W	KBF40GW	KBSF40W	KBSF40GW	6	40	+16	62	0	151
KBF50W	KBF50GW	KBSF50W	KBSF50GW	6	50	− 4	75	−22	192
KBF60W	KBF60GW	KBSF60W	KBSF60GW	6	60		90	0/−25	209

flange				eccentricity	perpendicularity	basic load rating		allowable static moment	mass	shaft diameter
Df mm	t mm	P.C.D. mm	X×Y×Z mm	μm	μm	dynamic C N	static Co N	Mo N・m	g	mm
32	5	24	3.5×6×3.1	15	15	421	804	4.3	59	8
42	6	32	4.5×7.5×4.1			813	1,570	11.7	110	12
46	6	36	4.5×7.5×4.1			921	1,780	14.2	160	16
54	8	43	5.5×9×5.1	17	17	1,370	2,740	25.0	260	20
62	8	51	5.5×9×5.1			1,570	3,140	44.0	540	25
76	10	62	6.6×11×6.1			2,500	5,490	78.9	815	30
98	13	80	9×14×8.1	20	20	3,430	8,040	147	1,805	40
112	13	94	9×14×8.1			6,080	15,900	396	2,820	50
134	18	112	11×17×11.1	25	25	7,550	20,000	487	4,920	60

1N≒0.102kgf　1N・m≒0.102kgf・m

KBK-W TYPE (Euro Standard)

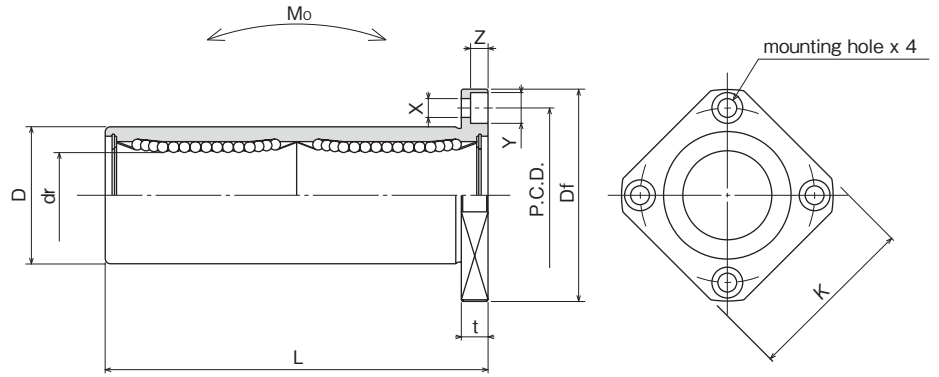
– Square Flange Double-Wide Type –



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
- 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		anti-corrosion			dr		D		L
steel retainer	resin retainer	stainless retainer	resin retainer		mm	tolerance μm	mm	tolerance μm	±0.3 mm
KBK 8W	KBK 8GW	KBSK 8W	KBSK 8GW	4	8	+ 9	16	0/−13	46
KBK12W	KBK12GW	KBSK12W	KBSK12GW	4	12	− 1	22	0	61
KBK16W	KBK16GW	KBSK16W	KBSK16GW	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		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

flange					eccentricity	perpendicularity	basic load rating		allowable static moment	mass	shaft diameter
Df mm	K mm	t mm	P.C.D. mm	X×Y×Z mm	μm	μm	dynamic C N	static Co N	Mo N・m	g	mm
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	25	25	7,550	20,000	487	4,480	60

1N≒0.102kgf　1N・m≒0.102kgf・m

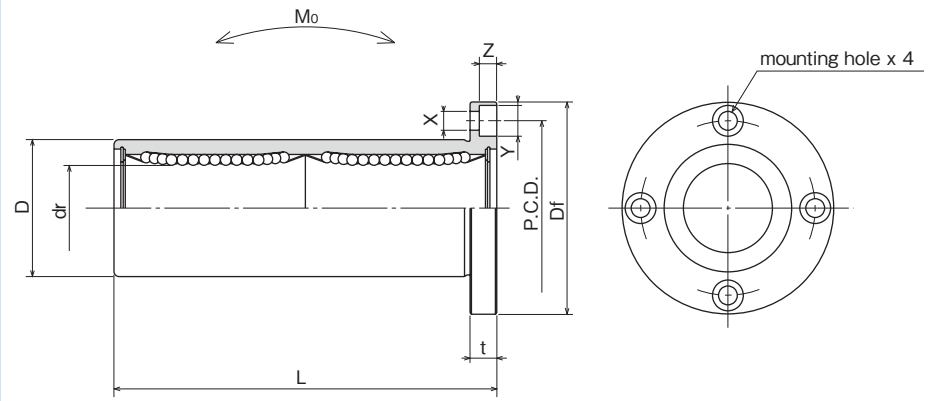
SWF-W TYPE (Inch Standard)

– Round Flange Double-Wide Type –

part number structure

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

- specification
  - **SWF**: standard
  - **SWSF**: anti-corrosion
- size
- retainer material
  - **blank**: standard/steel
  - anti-corrosion/stainless steel
  - **G**: resin
- double-wide type
- 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



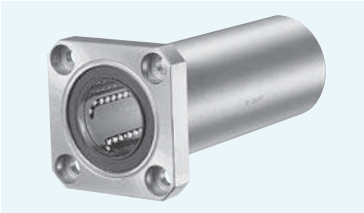
part number				number of ball circuits	major dimensions				
standard		anti-corrosion			dr		D		L
steel retainer	resin retainer	stainless retainer	resin retainer		inch (mm)	tolerance inch/(μm)	inch (mm)	tolerance inch/(μm)	±.012 (±0.3) inch/(mm)
SWF 4W	SWF 4GW	SWSF 4W	SWSF 4GW	4	.2500 (6.350)	0 −.00040 (−10)	.5000 (12.700)	0 −.00050 (−13)	1.3750 (34.925)
SWF 6W	SWF 6GW	SWSF 6W	SWSF 6GW	4	.3750 (9.525)		.6250 (15.875)	0 −.00065 (−16)	1.5938 (40.481)
SWF 8W	SWF 8GW	SWSF 8W	SWSF 8GW	4	.5000 (12.700)		.8750 (22.225)		2.3750 (60.325)
SWF10W	SWF10GW	SWSF10W	SWSF10GW	4	.6250 (15.875)		1.1250 (28.575)		2.8125 (71.438)
SWF12W	SWF12GW	SWSF12W	SWSF12GW	5	.7500 (19.050)	0 −.00050 (−12)	1.2500 (31.750)	0 −.00075 (−19)	3.0937 (78.581)
SWF16W	SWF16GW	SWSF16W	SWSF16GW	6	1.0000 (25.400)		1.5625 (39.688)		4.2813 (108.744)
SWF20W	SWF20GW	SWSF20W	SWSF20GW	6	1.2500 (31.750)	0 −.00060 (−15)	2.0000 (50.800)	0 −.00090 (−22)	5.0000 (127.000)
SWF24W	SWF24GW	SWSF24W	SWSF24GW	6	1.5000 (38.100)		2.3750 (60.325)		5.6875 (144.463)
SWF32W	SWF32GW	SWSF32W	SWSF32GW	6	2.0000 (50.800)		3.0000 (76.200)	0 −.00100 (−25)	7.7500 (196.850)

flange				eccentricity	perpendicularity	basic load rating		allowable static moment	mass	shaft diameter
Df	t	P.C.D.	X×Y×Z	inch (μm)	inch (μm)	dynamic C	static Co	Mo		inch
inch/(mm)	inch/(mm)	inch/(mm)	inch/(mm)			N	N	N・m	g	(mm)
1.2500 (31.750)	.2188 (5.556)	.8750 (22.225)	.1563×.2500×.1406 (3.969×6.350×3.572)	.0006 (15)	.0006 (15)	323	530	2.0	40	1/4 (6.350)
1.5000 (38.100)	.2500 (6.350)	1.0625 (26.988)	.1875×.2969×.1719 (4.763×7.541×4.366)			353	630	2.7	60	3/8 (9.525)
1.7500 (44.450)	.2500 (6.350)	1.3125 (33.338)	.1875×.2969×.1719 (4.763×7.541×4.366)			813	1,570	11.5	126	1/2 (12.700)
2.0000 (50.800)	.2500 (6.350)	1.5625 (39.688)	.1875×.2969×.1719 (4.763×7.541×4.366)			1,230	2,350	20.0	215	5/8 (15.875)
2.1875 (55.563)	.3125 (7.938)	1.7188 (43.656)	.2188×.3438×.2031 (5.556×8.731×5.159)	.0008 (20)	.0008 (20)	1,370	2,740	26.5	280	3/4 (19.050)
2.5000 (63.500)	.3125 (7.938)	2.0313 (51.594)	.2188×.3438×.2031 (5.556×8.731×5.159)			1,570	3,140	41.2	515	1 (25.400)
3.1250 (79.375)	.3750 (9.525)	2.5625 (65.088)	.2813×.4063×.2656 (7.144×10.319×6.747)	.0010 (25)	.0010 (25)	2,500	5,490	84.8	1,020	1-1/4 (31.750)
3.7500 (95.250)	.5000 (12.700)	3.0625 (77.788)	.3437×.5000×.3281 (8.731×12.700×8.334)			3,430	8,040	143	1,630	1-1/2 (38.100)
4.3750 (111.125)	.5000 (12.700)	3.6875 (93.662)	.3437×.5000×.3281 (8.731×12.700×8.334)	.0012 (30)	.0012 (30)	6,080	15,900	399	2,800	2 (50.800)

1N≒0.225lbf 1N・m≒0.738lb・ft
1kg≒2.205lbs

SWK-W TYPE (Inch Standard)

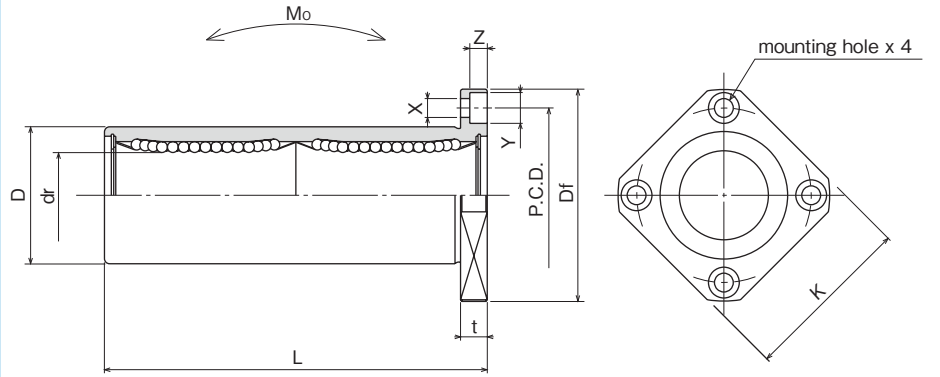
– Square Flange Double-Wide Type –



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
- double-wide type
- 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



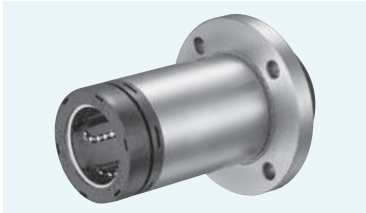
part number				number of ball circuits	major dimensions				
standard		anti-corrosion			dr		D		L
steel retainer	resin retainer	stainless retainer	resin retainer		inch (mm)	tolerance inch/(μm)	inch (mm)	tolerance inch/(μm)	±.012 (±0.3) inch/(mm)
SWK 4W	SWK 4GW	SWSK 4W	SWSK 4GW	4	.2500 (6.350)	0 −.00040 (−10)	.5000 (12.700)	0 −.00050 (−13)	1.3750 (34.925)
SWK 6W	SWK 6GW	SWSK 6W	SWSK 6GW	4	.3750 (9.525)		.6250 (15.875)	0 −.00065 (−16)	1.5938 (40.481)
SWK 8W	SWK 8GW	SWSK 8W	SWSK 8GW	4	.5000 (12.700)		.8750 (22.225)		2.3750 (60.325)
SWK10W	SWK10GW	SWSK10W	SWSK10GW	4	.6250 (15.875)		1.1250 (28.575)		2.8125 (71.438)
SWK12W	SWK12GW	SWSK12W	SWSK12GW	5	.7500 (19.050)	0 −.00050 (−12)	1.2500 (31.750)	0 −.00075 (−19)	3.0937 (78.581)
SWK16W	SWK16GW	SWSK16W	SWSK16GW	6	1.0000 (25.400)		1.5625 (39.688)		4.2813 (108.744)
SWK20W	SWK20GW	SWSK20W	SWSK20GW	6	1.2500 (31.750)	0 −.00060 (−15)	2.0000 (50.800)	0 −.00090 (−22)	5.0000 (127.000)
SWK24W	SWK24GW	SWSK24W	SWSK24GW	6	1.5000 (38.100)		2.3750 (60.325)		5.6875 (144.463)
SWK32W	SWK32GW	SWSK32W	SWSK32GW	6	2.0000 (50.800)		3.0000 (76.200)	0 −.00100 (−25)	7.7500 (196.850)

flange					eccentricity	perpendicularity	basic load rating		allowable static moment	mass	shaft diameter
Df	K	t	P.C.D.	X×Y×Z	inch (μm)	inch (μm)	dynamic C	static Co	Mo		
inch/(mm)	inch/(mm)	inch/(mm)	inch/(mm)	inch/(mm)			N	N	N・m	g	inch/(mm)
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	1/4 (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	3/8 (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	1/2 (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	5/8 (15.875)
2.1875 (55.563)	1.6875 (42.863)	.3125 (7.938)	1.7188 (43.656)	.2188×.3438×.2031 (5.556×8.731×5.159)	.0008 (20)	.0008 (20)	1,370	2,740	26.5	240	3/4 (19.050)
2.5000 (63.500)	2.0000 (50.800)	.3125 (7.938)	2.0313 (51.594)	.2188×.3438×.2031 (5.556×8.731×5.159)			1,570	3,140	41.2	470	1 (25.400)
3.1250 (79.375)	2.5000 (63.500)	.3750 (9.525)	2.5625 (65.088)	.2813×.4063×.2656 (7.144×10.319×6.747)	.0010 (25)	.0010 (25)	2,500	5,490	84.8	935	1-1/4 (31.750)
3.7500 (95.250)	3.0000 (76.200)	.5000 (12.700)	3.0625 (77.788)	.3437×.5000×.3281 (8.731×12.700×8.334)			3,430	8,040	143	1,460	1-1/2 (38.100)
4.3750 (111.125)	3.5000 (88.900)	.5000 (12.700)	3.6875 (93.662)	.3437×.5000×.3281 (8.731×12.700×8.334)	.0012 (30)	.0012 (30)	6,080	15,900	399	2,620	2 (50.800)

1N≒0.225lbf 1N・m≒0.738lb・ft
1kg≒2.205lbs

GMF-W TYPE

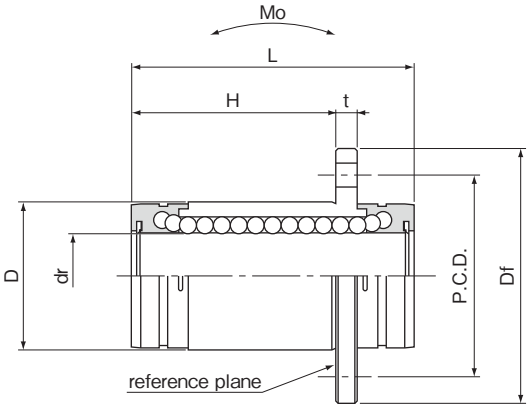
— Round Flange Double-Wide Type —

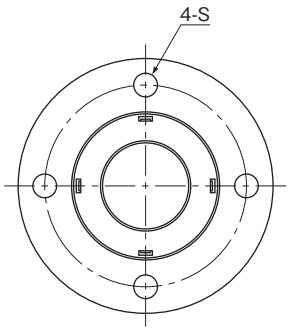


part number structure

example GMF 25 W UU

- GMF type
- inner contact diameter (dr)
- double-wide type
- seals on both sides





part number	number of ball circuits	major dimensions dr mm	dr tolerance μm	D mm	D tolerance μm	L mm	H mm
GMF 6W UU	4	6		12	0	28	17.8
GMF 8W UU	4	8		15	−13	36	25.1
GMF10W UU	4	10	0	19		41	28.2
GMF12W UU	4	12	−10	21	0	46	34.2
GMF13W UU	4	13		23	−16	48	34.7
GMF16W UU	4	16		28		53	38.3
GMF20W UU	6	20		32		65	49.2
GMF25W UU	6	25	0	40	0	91	70.5
GMF30W UU	6	30	−12	45	−19	99	74.3

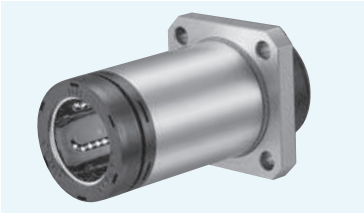
*UU type is standard.

flange Df mm	flange t mm	flange P.C.D. mm	flange S mm	perpendicularity μm	basic load rating dynamic C N	basic load rating static Co N	allowable static moment Mo N・m	mass g	shaft diameter mm
28	4	20	3.5		323	530	1.5	25	6
32	4	24	3.5		431	784	3.3	38	8
40	4	29	4.5	15	588	1,100	5.0	62	10
42	4	32	4.5		813	1,570	7.6	75	12
43	4	33	4.5		813	1,570	8.1	83	13
48	4	38	4.5		1,230	2,350	13.8	115	16
54	5	43	5.5		1,400	2,740	20.0	188	20
62	5	51	5.5	20	1,560	3,140	34.8	350	25
74	8	60	6.6		2,490	5,490	57.5	502	30

1N≒0.102kgf 1N・m≒0.102kgf・m

GMK-W TYPE

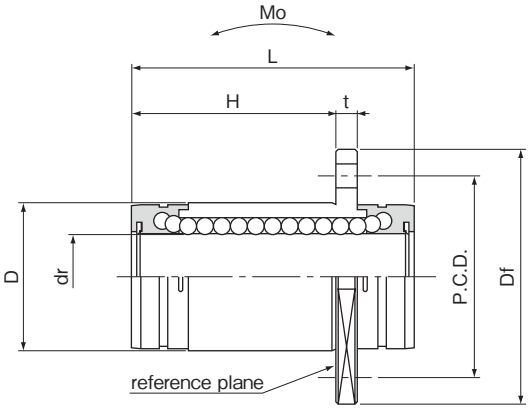
– Square Flange Double-Wide Type –

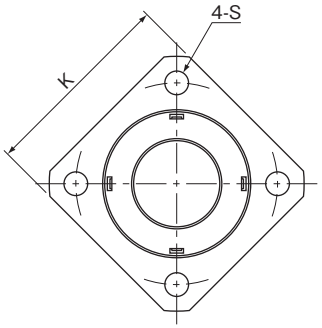


part number structure

example GMK 25 W UU

- GMK type
- inner contact diameter (dr)
- double-wide type
- seals on both sides





part number	number of ball circuits	dr mm	dr tolerance μm	D mm	D tolerance μm	major dimensions L mm	major dimensions H mm
GMK 6W UU	4	6	0 −10	12	0 −13	28	17.8
GMK 8W UU	4	8		15		36	25.1
GMK10W UU	4	10		19	0 −16	41	28.2
GMK12W UU	4	12		21		46	34.2
GMK13W UU	4	13		23		48	34.7
GMK16W UU	4	16		28		53	38.3
GMK20W UU	6	20	0 −12	32	0 −19	65	49.2
GMK25W UU	6	25		40		91	70.5
GMK30W UU	6	30		45		99	74.3

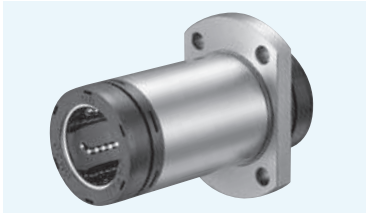
*UU type is standard.

flange Df mm	flange t mm	flange P.C.D. mm	K mm	S mm	perpendicularity μm	basic load rating dynamic C N	basic load rating static Co N	allowable static moment Mo N・m	mass g	shaft diameter mm
28	4	20	22	3.5	15	323	530	1.5	20	6
32	4	24	25	3.5		431	784	3.3	32	8
40	4	29	30	4.5		588	1,100	5.0	50	10
42	4	32	32	4.5		813	1,570	7.6	63	12
43	4	33	34	4.5		813	1,570	8.1	72	13
48	4	38	37	4.5		1,230	2,350	13.8	99	16
54	5	43	42	5.5	20	1,400	2,740	20.0	165	20
62	5	51	50	5.5		1,560	3,140	34.8	325	25
74	8	60	58	6.6		2,490	5,490	57.5	437	30

1N≒0.102kgf 1N・m≒0.102kgf・m

GMT-W TYPE

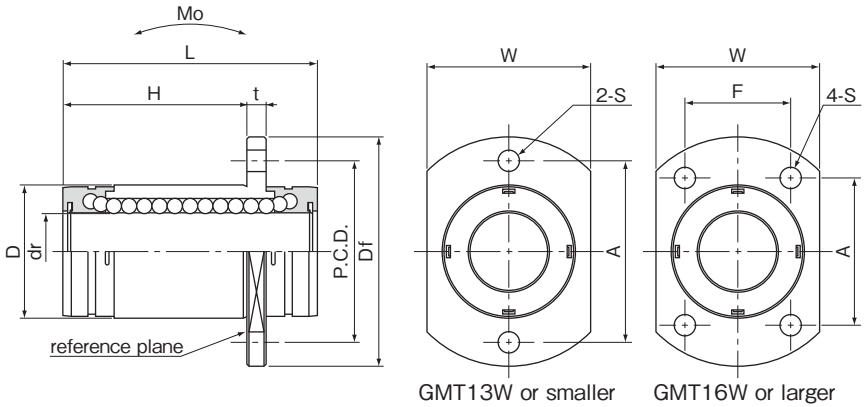
– Two Side Cut Double-Wide Flange Type –



part number structure

example GMT 25 W UU

- GMT type
- inner contact diameter (dr)
- double-wide type
- seals on both sides



part number	number of ball circuits	major dimensions dr mm	dr tolerance μm	D mm	D tolerance μm	L mm	H mm
GMT 6W UU	4	6	0 −10	12	0 −13	28	17.8
GMT 8W UU	4	8		15		36	25.1
GMT10W UU	4	10		19	0 −16	41	28.2
GMT12W UU	4	12		21		46	34.2
GMT13W UU	4	13		23		48	34.7
GMT16W UU	4	16		28		53	38.3
GMT20W UU	6	20	0 −12	32	0 −19	65	49.2
GMT25W UU	6	25		40		91	70.5
GMT30W UU	6	30		45		99	74.3

*UU type is standard.

flange Df mm	flange t mm	flange W mm	flange A mm	flange F mm	flange S mm	perpendicularity μm	basic load rating dynamic C N	basic load rating static Co N	allowable static moment Mo N・m	mass g	shaft diameter mm
28	4	18	20	–	3.5	15	323	530	1.5	21	6
32	4	21	24	–	3.5		431	784	3.3	33	8
40	4	25	29	–	4.5		588	1,100	5.0	52	10
42	4	27	32	–	4.5		813	1,570	7.6	65	12
43	4	29	33	–	4.5		813	1,570	8.1	74	13
48	4	34	31	22	4.5		1,230	2,350	13.8	104	16
54	5	38	36	24	5.5	20	1,400	2,740	20.0	171	20
62	5	46	40	32	5.5		1,560	3,140	34.8	331	25
74	8	51	49	35	6.6		2,490	5,490	57.5	447	30

1N≒0.102kgf 1N・m≒0.102kgf・m