KB TYPE

– Standard Type –

This type is a metric dimension series generally used in Europe.

part number structure example

KBS | **25** | **G** | **UU**

retainer material

KB	standard
KBS	anticorrosion

inner contact diameter

retainer material

blank	steel
G	resin

seal

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

part number				number of ball circuits	dr		D	
standard		anticorrosion			mm	tolerance μm	mm	tolerance μm
steel retainer	resin retainer	stainless retainer	resin retainer					
KB 3	**KB 3G**	**KBS 3**	**KBS 3G**	4	3	+ 8 0	7	0 − 8
KB 4	**KB 4G**	**KBS 4**	**KBS 4G**	4	4		8	
KB 5	**KB 5G**	**KBS 5**	**KBS 5G**	4	5		12	
KB 8	**KB 8G**	**KBS 8**	**KBS 8G**	4	8		16	
KB10	**KB10G**	**KBS10**	**KBS10G**	4	10		19	0 − 9
KB12	**KB12G**	**KBS12**	**KBS12G**	4	12		22	
KB16	**KB16G**	**KBS16**	**KBS16G**	4	16	+ 9 − 1	26	
KB20	**KB20G**	**KBS20**	**KBS20G**	5	20		32	0 −11
KB25	**KB25G**	**KBS25**	**KBS25G**	6	25	+11 − 1	40	
KB30	**KB30G**	**KBS30**	**KBS30G**	6	30		47	
KB40	**KB40G**	**KBS40**	**KBS40G**	6	40	+13 − 2	62	0 −13
KB50	**KB50G**	**KBS50**	**KBS50G**	6	50		75	
KB60	**KB60G**	**KBS60**	**KBS60G**	6	60		90	0 −15
KB80	–	–	–	6	80	+16/−4	120	

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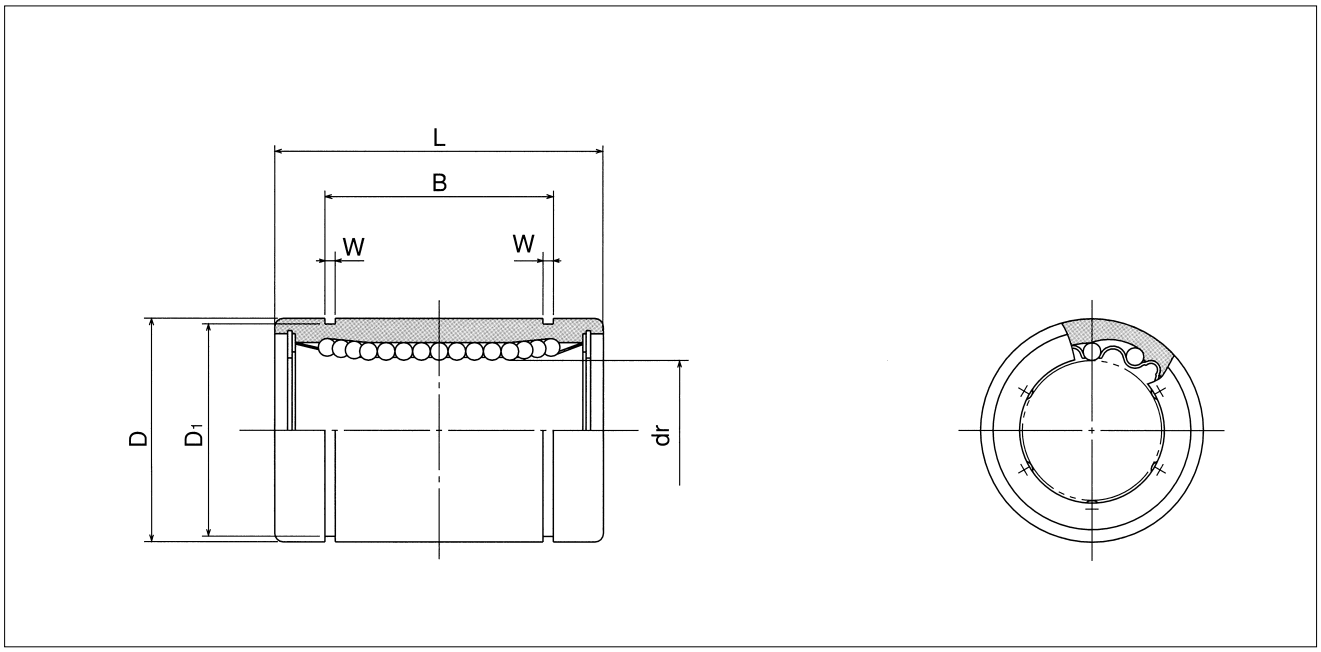

major dimensions						eccentricity	radial clearance (maximum)	basic load rating		mass	shaft diameter
L	tolerance	B	tolerance	W	D1			dynamic C	static Co		
mm	mm	mm	mm	mm	mm	μm	μm	N	N	g	mm
10	0	—	—	—	—	10	− 3	69	105	1.4	3
12	−0.12	—	—	—	—			88	127	2	4
22		14.5		1.1	11.5	12		206	265	11	5
25		16.5		1.1	15.2			265	402	22	8
29	0	22	0	1.3	18		− 4	372	549	36	10
32	−0.2	22.9	−0.2	1.3	21			510	784	45	12
36		24.9		1.3	24.9			578	892	60	16
45		31.5		1.6	30.3	15	− 6	862	1,370	102	20
58		44.1		1.85	37.5			980	1,570	235	25
68	0	52.1	0	1.85	44.5		− 8	1,570	2,740	360	30
80	−0.3	60.6	−0.3	2.15	59	17		2,160	4,020	770	40
100		77.6		2.65	72		−13	3,820	7,940	1,250	50
125	0	101.7	0	3.15	86.5	20		4,700	9,800	2,220	60
165	−0.4	133.7	−0.4	4.15	116		−20	7,350	16,000	5,140	80

1N≒0.102kgf

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KB-AJ TYPE

— Clearance Adjustable Type —

This type is a metric dimension series generally used in Europe.

part number structure example

KBS | 25 | G | UU | - | AJ

retainer material
KB	standard
KBS	anticorrosion

inner contact diameter

retainer material
blank	steel
G	resin

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

clearance-adjustable type

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

* Accuracy is measured prior to machining clearance slot.

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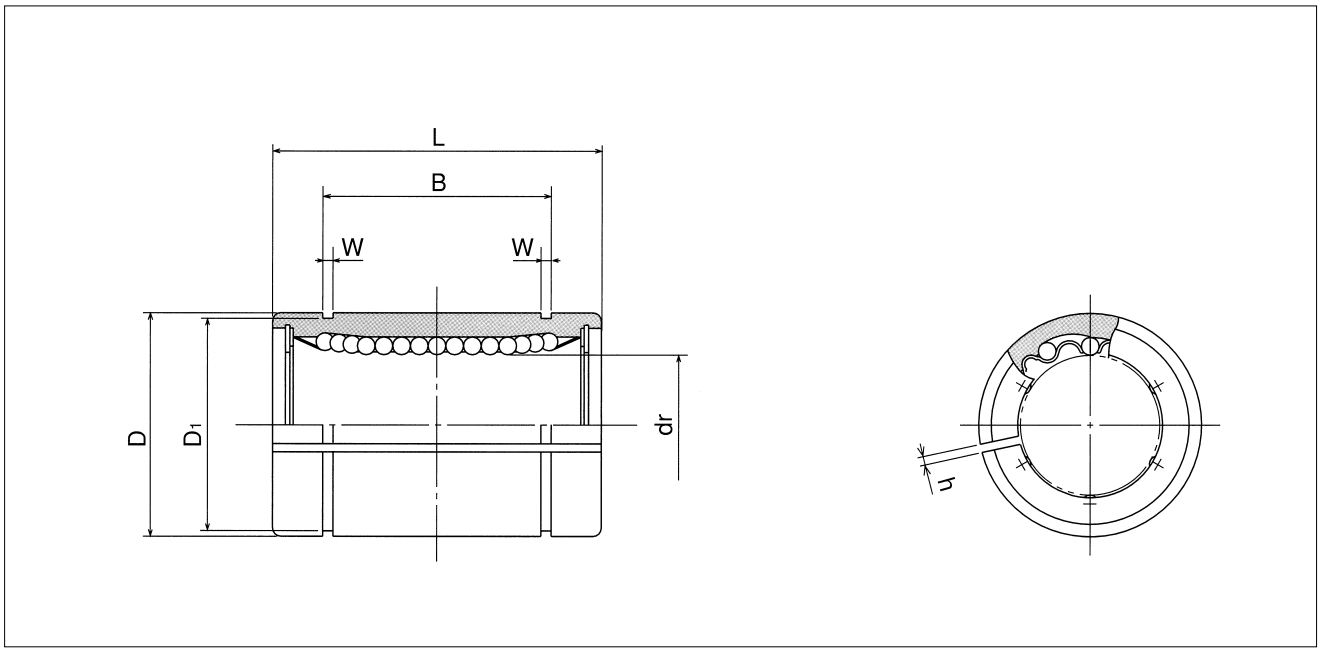

major dimensions							eccentricity*	basic load rating		mass	shaft diameter
L	tolerance	B	tolerance	W	D_1	h		dynamic C	static Co		
mm	mm	mm	mm	mm	mm	mm	μm	N	N	g	mm
22		14.5		1.1	11.5	1		206	265	10	5
25		16.5		1.1	15.2	1		265	402	19.5	8
29	0	22	0	1.3	18	1	12	372	549	29	10
32	−0.2	22.9	−0.2	1.3	21	1.5		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		862	1,370	100	20
58		44.1		1.85	37.5	2	15	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	20	4,700	9,800	2,170	60
165	−0.4	133.7	−0.4	4.15	116	3		7,350	16,000	5,000	80

1N≒0.102kgf

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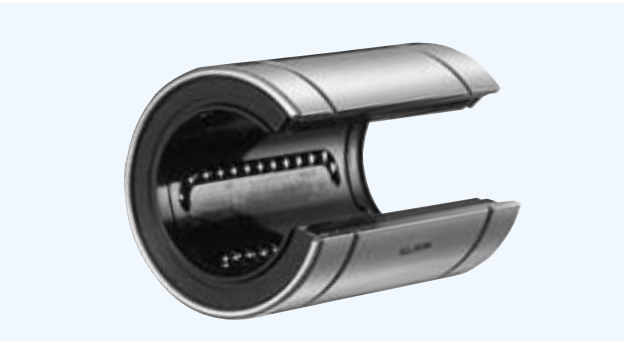
KB-OP TYPE

— Open Type —

This type is a metric dimension series generally used in Europe.



part number structure example

KBS | 25 | G | UU | - | OP

retainer material

KB	standard
KBS	anticorrosion

inner contact diameter

retainer material

blank	steel
G	resin

seal

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

open type

part number				number of ball circuits	dr		D	
standard		anticorrosion			mm	tolerance* μm	mm	tolerance* μm
steel retainer	resin retainer	stainless retainer	resin retainer					
—	**KB10G-OP**	—	**KBS10G-OP**	3	10	+ 8	19	0
KB12-OP	**KB12G-OP**	**KBS12-OP**	**KBS12G-OP**	3	12	0	22	− 9
KB16-OP	**KB16G-OP**	**KBS16-OP**	**KBS16G-OP**	3	16	+ 9	26	
KB20-OP	**KB20G-OP**	**KBS20-OP**	**KBS20G-OP**	4	20	− 1	32	0
KB25-OP	**KB25G-OP**	**KBS25-OP**	**KBS25G-OP**	5	25	+11	40	−11
KB30-OP	**KB30G-OP**	**KBS30-OP**	**KBS30G-OP**	5	30	− 1	47	
KB40-OP	**KB40G-OP**	**KBS40-OP**	**KBS40G-OP**	5	40	+13	62	0
KB50-OP	**KB50G-OP**	**KBS50-OP**	**KBS50G-OP**	5	50	− 2	75	−13
KB60-OP	**KB60G-OP**	**KBS60-OP**	**KBS60G-OP**	5	60		90	0
KB80-OP	—	—	—	5	80	+16/−4	120	−15

* Accuracy is measured prior to machining open slot.

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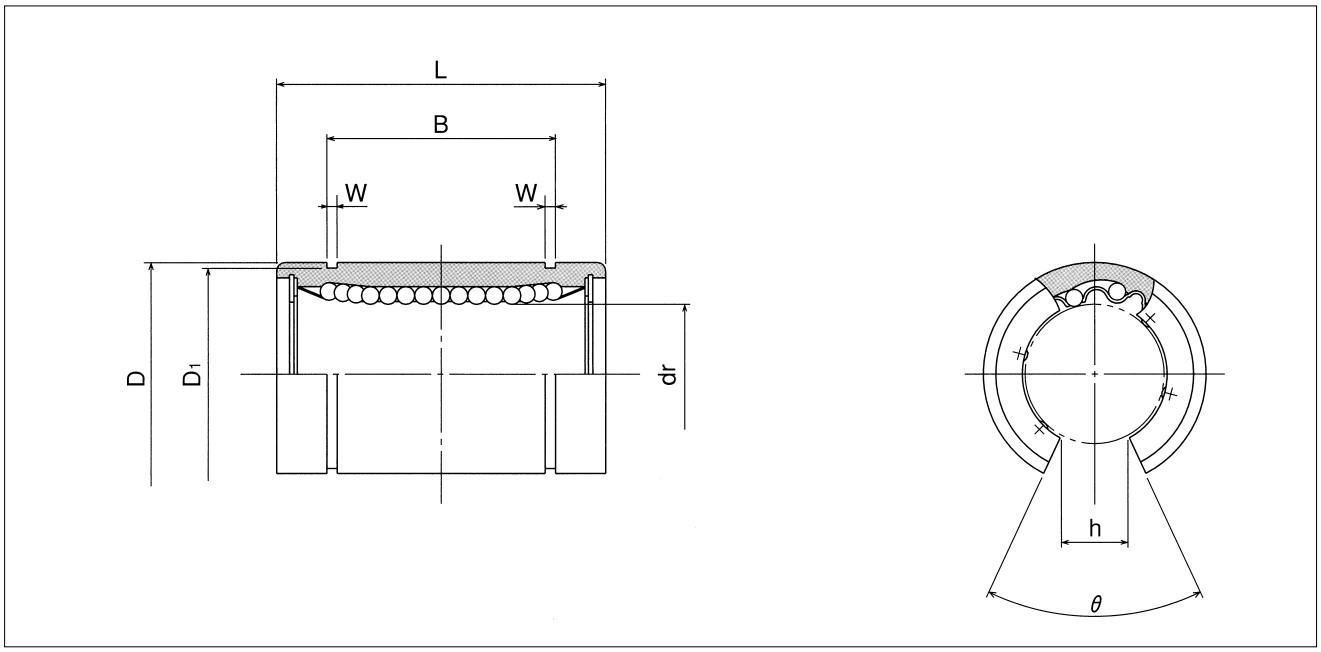

major dimensions								eccentricity	basic load rating		mass	shaft diameter
L	tolerance	B	tolerance	W	D_1	h	θ		dynamic C	static Co		
mm	mm	mm	mm	mm	mm	mm		μm	N	N	g	mm
29	0 −0.2	22	0 −0.2	1.3	18	6.8	80°	12	372	549	23	10
32		22.9		1.3	21	7.5	78°		510	784	35	12
36		24.9		1.3	24.9	10	78°		578	892	48	16
45		31.5		1.6	30.3	10	60°	15	862	1,370	84	20
58	0 −0.3	44.1	0 −0.3	1.85	37.5	12.5	60°		980	1,570	195	25
68		52.1		1.85	44.5	12.5	50°		1,570	2,740	309	30
80		60.6		2.15	59	16.8	50°	17	2,160	4,020	665	40
100		77.6		2.65	72	21	50°		3,820	7,940	1,080	50
125	0 −0.4	101.7	0 −0.4	3.15	86.5	27.2	54°	20	4,700	9,800	1,900	60
165		133.7		4.15	116	36.3	54°		7,350	16,000	4,380	80

1N≒0.102kgf

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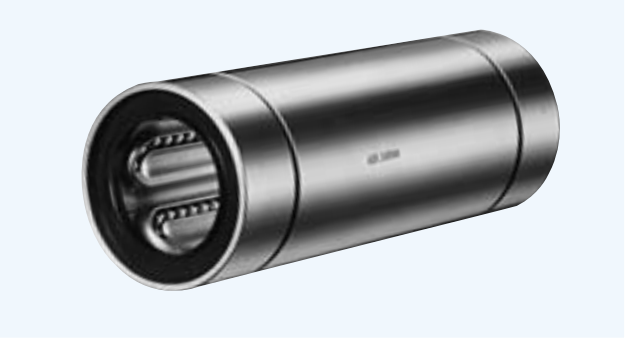
KB-W TYPE

— Double-Wide Type —

This type is a metric dimension series generally used in Europe.



part number structure example

KBS | **25** | **G** | **W** | **UU**

retainer material

KB	standard
KBS	anticorrosion

inner contact diameter

retainer material

blank	steel
G	resin

seal

blank	without seal
UU	seals on both sides

double-wide type

part number				number of ball circuits	dr		D	
standard		anticorrosion			mm	tolerance μm	mm	tolerance μm
steel retainer	resin retainer	stainless retainer	resin retainer					
KB 8W	**KB 8GW**	**KBS 8W**	**KBS 8GW**	4	8	+ 9 − 1	16	0/−9
KB12W	**KB12GW**	**KBS12W**	**KBS12GW**	4	12		22	0 −11
KB16W	**KB16GW**	**KBS16W**	**KBS16GW**	4	16	+11 − 1	26	
KB20W	**KB20GW**	**KBS20W**	**KBS20GW**	5	20		32	0 −13
KB25W	**KB25GW**	**KBS25W**	**KBS25GW**	6	25	+13 − 2	40	
KB30W	**KB30GW**	**KBS30W**	**KBS30GW**	6	30		47	
KB40W	**KB40GW**	**KBS40W**	**KBS40GW**	6	40	+16 − 4	62	0 −15
KB50W	**KB50GW**	**KBS50W**	**KBS50GW**	6	50		75	
KB60W	**KB60GW**	**KBS60W**	**KBS60GW**	6	60		90	0/−20

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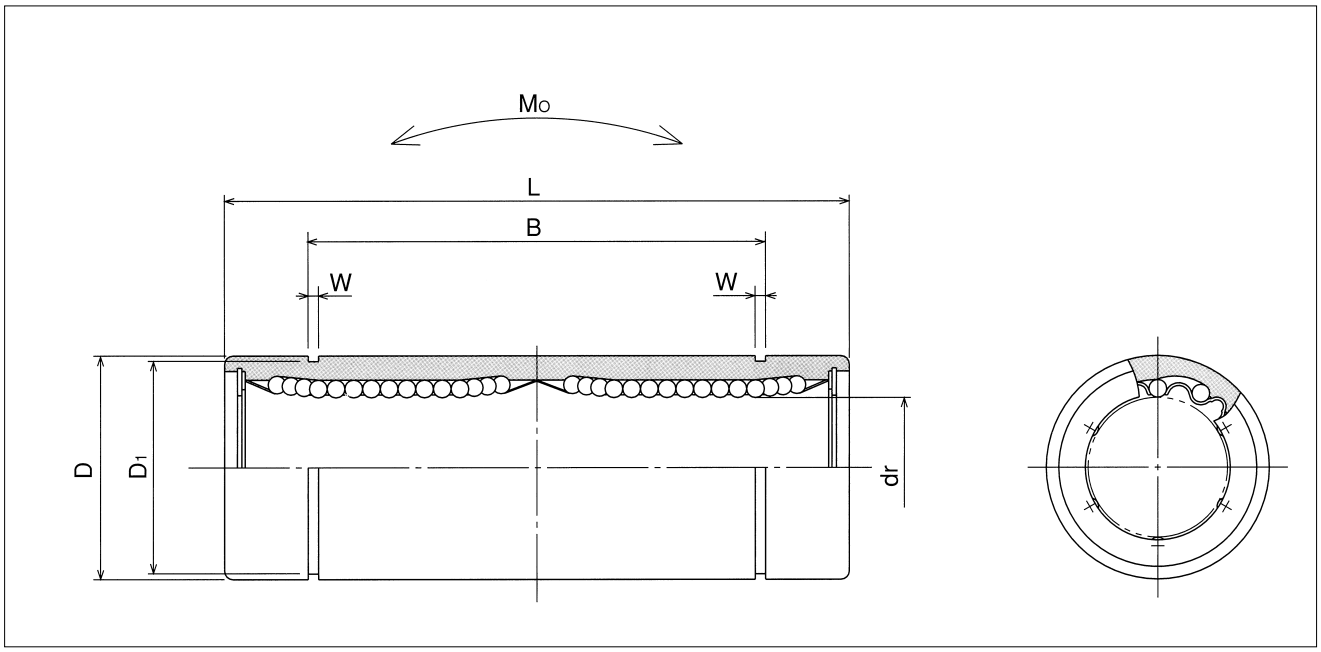

major dimensions						eccentricity	basic load rating		rated static moment	mass	shaft diameter
L	tolerance	B	tolerance	W	D1		dynamic C	static Co	Mo		
mm	mm	mm	mm	mm	mm	μm	N	N	N・m	g	mm
46	0 −0.3	33	0 −0.3	1.1	15.2	15	421	804	4.3	40	8
61		45.8		1.3	21		813	1,570	11.7	80	12
68		49.8		1.3	24.9		921	1,780	14.2	115	16
80		61		1.6	30.5	17	1,370	2,740	25.0	180	20
112	0 −0.4	82	0 −0.4	1.85	38		1,570	3,140	44.0	430	25
123		104.2		1.85	44.5		2,500	5,490	78.9	615	30
151		121.2		2.15	59	20	3,430	8,040	147	1,400	40
192		155.2		2.65	72		6,080	15,900	396	2,320	50
209		170		3.15	86.5	25	7,550	20,000	487	3,920	60

1N≒0.102kgf　1N・m≒0.102kgf・m

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