

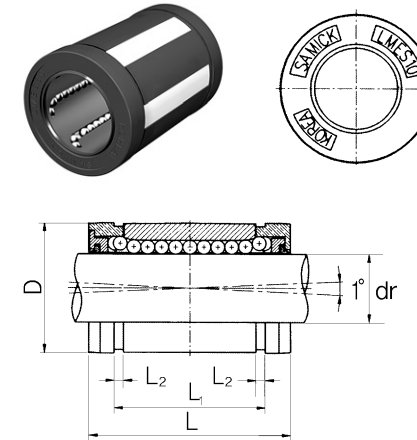


Part Number Notation

Self-Aligning Linear Bushing	LM	ES	16	UU	OP	-	N	S
Samick Linear Bushing								
Standards	Metric series (mm) : ES Inch series (inch) : BS							
Nominal Shaft Diameter	Metric series (mm) : 10~50mm Inch Series : #4~#32							
Seal	No Seal : Blank One Side Seal : U Both Side Seal : UU							
Type	Standard type : Blank Open type (for support rail) : OP							
Corrosion resistance type	No-plating (Standard) : Blank Ball plate nickel plating : N Stainless steel ball plate : M* Ball plate Chrome plating : C							
Ball type (by corrosion resistance)	High carbon bearing steel ball (standard) : Blank Stainless steel ball : S							

* LMES10, LMES12 and LMBS4, LMBS6, LMBS8 only with stainless steel ball plate

LMES Self-Aligning Linear Bushing



Self-Aligning linear Bushing	LMES	20	UU	-	N	S
Nominal Shaft Diameter						
Seal	No Seal : Blank One Side Seal : U Both Side Seal : UU					
Corrosion resistance type	No-plating (Standard) : Blank Ball plate nickel plating : N Ball plate Chrome plating : C Stainless steel ball plate : M****					
Ball type (by corrosion resistance)	High carbon bearing steel ball (standard) : Blank Stainless steel ball : S					

PART NUMBER	DIAMETER		D*	L ±0.2	L ₁ ±0.2	L ₂ min	BASIC LOAD RATING(N)		NO. OF BALL CIRCUIT	WEIGHT (g)
	dr.	TOLERANCE					DYNAMIC**C	STATIC**C ₀		
LMES10	10	+0.008	19	29	21.7	1.35	750	550	5	17
LMES12	12	0	22	32	22.7	1.35	1230	1100	5	23
LMES16	16	+0.009	26	36	24.7	1.35	1550	1250	5	28
LMES20	20	+0.001	32	45	31.3	1.65	2580	1670	6	61
LMES25	25	+0.011	40	58	43.8	1.9	3800	2750	6	122
LMES30	30	+0.001	47	68	51.8	1.9	4710	2800	6	185
LMES40	40	+0.013	62	80	60.4	2.2	6500	5720	6	360
LMES50	50	+0.002	75	100	77.4	2.7	11460	7940	6	580

* Based on nominal housing bore

** Dynamic load rating is based on the nominal life of 50km. In case of 100km, C on the table need to be divided by 1.26

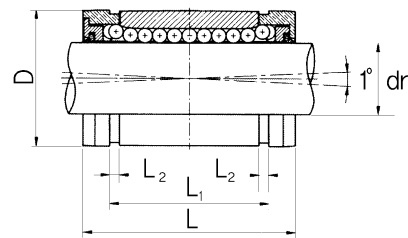
Ex) LM12 s 50km basis dynamic load rating C = 410N

LM12 s 100km basis dynamic load rating C₁₀₀ = 410 / 1.26 = 325.40N

*** Dimension : mm

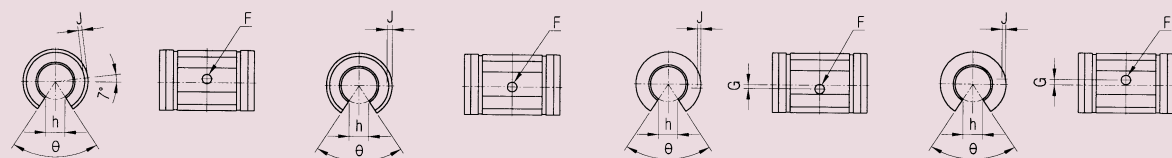
**** LMES10, LMES12 only with stainless steel ball plate

LMES_OP Self-Aligning Linear Bushing



Self-Aligning linear Bushing	LMES	20	UU	OP	-	N	S
Nominal Shaft Diameter							
Seal	No Seal : Blank One Side Seal : U Both Side Seal : UU						
Open type linear bushing							
Corrosion resistance type	No-plating (Standard) : Blank Ball plate nickel plating : N Ball plate Chrome plating : C Stainless steel ball plate : M****						
Ball type (by corrosion resistance)	High carbon bearing steel ball (standard) : Blank Stainless steel ball : S						

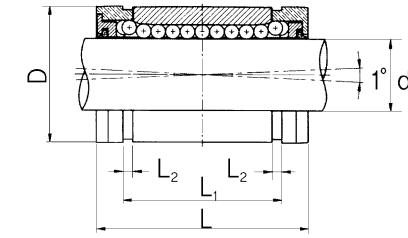
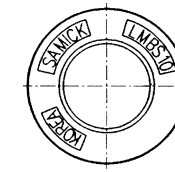
PART NUMBER	DIA METER dr.	TOLERANCE	D*	L ±0.2	L ₁ ±0.2	L ₂ min	h	θ	F	G	J	BASIC LOAD RATING(N)		NO. OF BALL CIRCUIT	WEIGHT (g)
												DYNA M(C)	STAT(Co)		
LMES12 OP	12	$^{+0.003}_0$	22	32	22.7	1.35	6.5	66	3	-	0.7	1290	1260	4	18
LMES16 OP	16	$^{+0.009}_0$	26	36	24.7	1.35	9	68	3	-	0.7	1640	1320	4	22
LMES20 OP	20	$^{+0.001}_0$	32	45	31.3	1.65	9	55	3	-	0.9	2630	1720	5	51
LMES25 OP	25	$^{+0.011}_0$	40	58	43.8	1.9	11.5	57	3	1.5	1.4	3910	2850	5	102
LMES30 OP	30	$^{+0.001}_0$	47	68	51.8	1.9	14	57	3	2	2.2	4850	2900	5	155
LMES40 OP	40	$^{+0.013}_0$	62	80	60.4	2.2	19.5	56	3	1.5	2.7	8700	5900	5	300
LMES50 OP	50	$^{+0.001}_0$	75	100	77.4	2.7	22.5	54	5	2.5	2.3	11700	8100	5	480



LMES12-OP LMES16-OP, LMES20-OP LMES25-OP LMES30-OP, LMES40-OP, LMES50-OP

* Based on nominal housing bore
 ** Dynamic load rating is based on the nominal life of 50km. In case of 100km, C on the table need to be divided by 1.26
 Ex) LM12 s 50km basis dynamic load rating C = 410N
 LM12 s 100km basis dynamic load rating C₁₀₀ = 410 / 1.26 = 325.40N
 *** Dimension : mm
 **** LMES12 only with stainless steel ball plate

LMBS Self-Aligning Linear Bushing

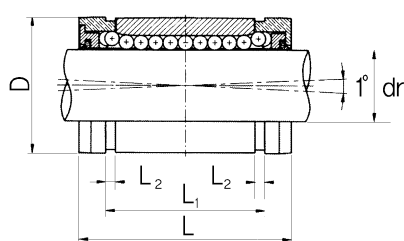


Self-Aligning linear Bushing	LMBS	20	UU	-	N	S
Nominal Shaft Diameter						
Seal	No Seal : Blank One Side Seal : U Both Side Seal : UU					
Corrosion resistance type	No-plating (Standard) : Blank Ball plate nickel plating : N Ball plate Chrome plating : C Stainless steel ball plate : M****					
Ball type (by corrosion resistance)	High carbon bearing steel ball (standard) : Blank Stainless steel ball : S					

PART NUMBER	DIA METER dr.	TOLERANCE	D*	L	L ₁	L ₂ min	BASIC LOAD RATING(N)		NO. OF BALL CIRCUIT	WEIGHT (g)
							DYNA M(C)	STAT(Co)		
LMBS4	0.2500	$^{+0.001}_0$	0.5000	0.750/0.735	0.511/0.501	0.039	57	49	4	0.01
LMBS6	0.3750	$^{+0.001}_0$	0.6250	0.875/0.860	0.699/0.689	0.039	78	66	4	0.02
LMBS8	0.5000	$^{+0.001}_0$	0.8750	1.250/1.230	1.032/1.012	0.050	210	190	4	0.05
LMBS10	0.6250	$^{+0.0005}_0$	1.1250	1.500/1.480	1.105/1.095	0.056	290	340	5	0.08
LMBS12	0.7500	$^{+0.0005}_0$	1.2500	1.625/1.605	1.270/1.250	0.056	500	430	6	0.14
LMBS16	1.0000	$^{+0.0005}_0$	1.5625	2.250/2.230	1.884/1.864	0.070	820	780	6	0.29
LMBS20	1.2500	$^{+0.0005}_0$	2.0000	2.625/2.600	2.004/1.984	0.068	1240	1270	6	0.40
LMBS24	1.5000	$^{+0.0005}_0$	2.3750	3.000/2.970	2.410/2.390	0.086	1510	1540	6	0.80
LMBS32	2.0000	$^{+0.0005}_0$	3.0000	4.000/3.960	3.193/3.163	0.105	2230	2580	6	1.38

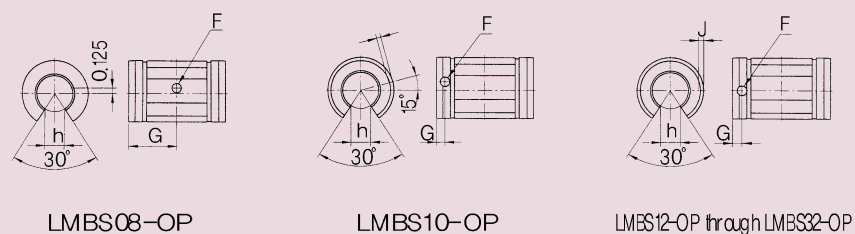
* Based on nominal housing bore
 ** Dynamic load rating is based on the nominal life of 50km. In case of 100km, C on the table need to be divided by 1.26
 Ex) LM12 s 50km basis dynamic load rating C = 410N
 LM12 s 100km basis dynamic load rating C₁₀₀ = 410 / 1.26 = 325.40N
 *** Dimension : inch
 **** LMBS4, 6, 8 only with stainless steel ball plate

| LMBS_OP Self-Aligning Linear Bushing |



Self-Aligning linear Bushing LMBS	20	UU	OP	-	N	S
Nominal Shaft Diameter						
Seal	No Seal : Blank One Side Seal : U Both Side Seal : UU					
Open type linear bushing						
Corrosion resistance type	No-plating (Standard) : Blank Ball plate nickel plating : N Ball plate Chrome plating : C Stainless steel ball plate : M****					
Ball type (by corrosion resistance)	High carbon bearing steel ball (standard) : Blank Stainless steel ball : S					

PART NUMBER	DIAMETER		D*	L	L ₁	F	G	J	L ₂ min	h	BASIC LOAD RATING(N)		NO. OF BALL CIRCUIT	WEIGHT (lb)
	dr.	TOLERANCE									DYNAMIC(lb)	STATIC d(lb)		
LMBS8 OP	8		0.8750	1.250/1.230	1.032	0.14	0.63	Thru	0.050	0.32	210	190	3	0.03
LMBS10 OP	10	₀	1.1250	1.500/1.480	1.105	0.11	0.13	0.039	0.056	0.38	320	340	4	0.06
LMBS12 OP	12	_{-0.0005}	1.2500	1.625/1.605	1.270	0.14	0.13	0.059	0.056	0.43	510	430	5	0.11
LMBS16 OP	16		1.5625	2.250/2.230	1.884	0.14	0.13	0.047	0.070	0.56	830	780	5	0.21
LMBS20 OP	20	₀	2.0000	2.625/2.600	2.004	0.20	0.19	0.090	0.068	0.63	1250	1270	5	0.35
LMBS24 OP	24	_{-0.0005}	2.3750	3.000/2.970	2.410	0.20	0.19	0.090	0.086	0.75	1520	1540	5	0.67
LMBS32 OP	32	_{-0.0005}	3.0000	4.000/3.960	3.193	0.27	0.31	Thru	0.105	1.00	2250	2580	5	1.10



* Based on nominal housing bore
 ** Dynamic load rating is based on the nominal life of 50km. In case of 100km, C on the table need to be divided by 1.26
 Ex) LM12 s 50km basis dynamic load rating C = 410N
 LM12 s 100km basis dynamic load rating C₁₀₀ = 410 / 1.26 = 325.40N
 *** Dimension : inch
 **** LMBS8OP only with stainless steel ball plate

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SAMICK Linear Bushing

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