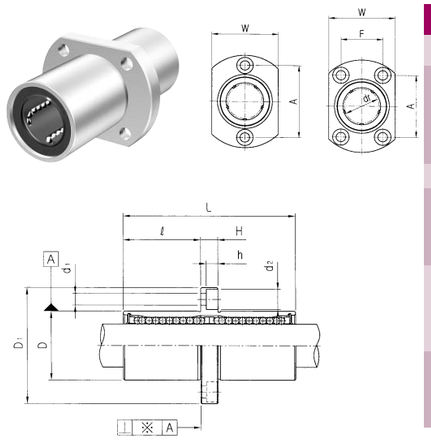
| LMHM FLANGED LINEAR BUSHING |



Samick Square Middle Flanged Linear Bushing	LMHM	20	UU	–	A	N	S

Nominal Shaft Diameter

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

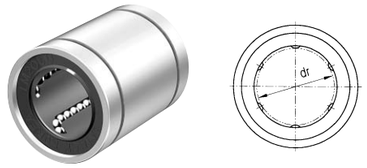
Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

PART NUMBER Resin	PART NUMBER Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	D1 mm CLEARANCE	ℓ	H	W	A	F	d1	d2	h	SQUARENESS ※(㎛)	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMHM6	LMHM6-A	6	12 $^{0}_{-0.013}$	35	28	15	5	18	20		3.4	6.5	3.3	15	320	520	4	31
LMHM8	LMHM8-A	8	15 $^{0}_{-0.013}$	45	32	20	5	21	24		3.4	6.5	3.3	15	430	780	4	53
LMHM10	LMHM10-A	10	19	55	40	24.5	6	25	29		4.5	8	4.4	15	580	1100	4	105
LMHM12	LMHM12-A	12 $^{0}_{-0.010}$	21 $^{0}_{-0.013}$	57 $^{0}_{-0.3}$	42	25.5	6	27	32		4.5	8	4.4	15	650	1200	4	100
LMHM13	LMHM13-A	13	23 $^{0}_{-0.016}$	61	43 $^{0}_{-0.2}$	27.5	6	29	33		4.5	8	4.4	15	810	1570	4	130
LMHM16	LMHM16-A	16	28	70	48	32	6	34	31	22	4.5	8	4.4	15	1230	2350	5	187
LMHM20	LMHM20-A	20	32	80	54	36	8	38	36	24	5.5	9.5	5.4	20	1400	2750	5	260
LMHM25	LMHM25-A	25 $^{0}_{-0.012}$	40 $^{0}_{-0.019}$	112	62	52	8	46	40	32	5.5	9.5	5.4	20	1560	3140	6	515
LMHM30		30	45	123 $^{0}_{-0.4}$	74	56.5	10	51	49	35	6.6	11	6.5	20	2940	5490	6	655

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LME CLOSED LINEAR BUSHING |



European Standard Samick Linear Bushing **LME** **20** **UU** **-** **A** **N** **S**

Nominal Shaft Diameter

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

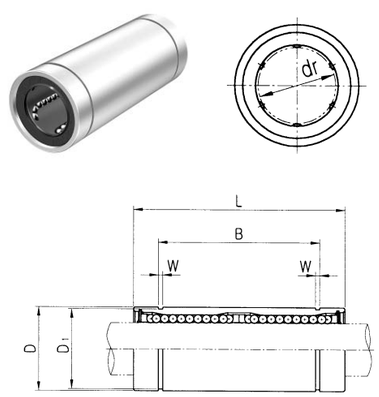
Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	B mm CLEARANCE	W	D_1	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LME5		5 $^{+0.008}_{0}$	12 $^{0}_{-0.008}$	22 $^{0}_{-0.2}$	14.5 $^{0}_{-0.2}$	1.1	11.5	200	260	4	12
LME8	LME8-A	8 $^{+0.008}_{0}$	16 $^{0}_{-0.008}$	25 $^{0}_{-0.2}$	16.5 $^{0}_{-0.2}$	1.1	15.2	260	400	4	20
LME12	LME12-A	12 $^{+0.009}_{-0.001}$	22 $^{0}_{-0.2}$	32 $^{0}_{-0.2}$	22.9 $^{0}_{-0.2}$	1.3	21	410	590	4	41
LME16	LME16-A	16 $^{+0.009}_{-0.001}$	26 $^{0}_{-0.2}$	36 $^{0}_{-0.2}$	24.9 $^{0}_{-0.2}$	1.3	24.9	770	1170	5	57
LME20	LME20-A	20 $^{+0.009}_{-0.001}$	32 $^{0}_{-0.2}$	45 $^{0}_{-0.2}$	31.5 $^{0}_{-0.2}$	1.6	30.3	860	1370	5	91
LME25	LME25-A	25 $^{+0.011}_{-0.001}$	40 $^{0}_{-0.011}$	58 $^{0}_{-0.3}$	44.1 $^{0}_{-0.3}$	1.85	37.5	980	1560	6	215
LME30		30 $^{+0.011}_{-0.001}$	47 $^{0}_{-0.011}$	68 $^{0}_{-0.3}$	52.1 $^{0}_{-0.3}$	1.85	44.5	1560	2740	6	325
LME40		40 $^{+0.013}_{-0.002}$	62 $^{0}_{-0.013}$	80 $^{0}_{-0.4}$	60.6 $^{0}_{-0.4}$	2.15	59	2150	4010	6	705
LME50		50 $^{+0.013}_{-0.002}$	75 $^{0}_{-0.013}$	100 $^{0}_{-0.4}$	77.6 $^{0}_{-0.4}$	2.65	72	3820	7930	6	1130
LME60		60 $^{+0.016}_{-0.004}$	90 $^{0}_{-0.015}$	125 $^{0}_{-0.4}$	101.7 $^{0}_{-0.4}$	3.15	86.5	4700	9990	6	2220

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LME_L LONG LINEAR BUSHING |



European Standard Samick Linear Bushing **LME** **20** **L** **UU** **-** **A** **N** **S**

Nominal Shaft Diameter

Linear Bushing Long type (for high load)

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

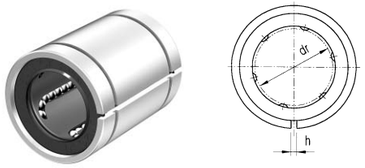
Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	B mm CLEARANCE	W	D_1	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LME8L	LME8L-A	8 $^{+0.009}_{-0.001}$	16 $^{0}_{-0.009}$	45 $^{0}_{-0.3}$	33 $^{0}_{-0.3}$	1.1	15.2	430	780	4	31
LME12L	LME12L-A	12 $^{+0.011}_{-0.001}$	22 $^{0}_{-0.011}$	57 $^{0}_{-0.3}$	45.8 $^{0}_{-0.3}$	1.3	21	650	1200	4	80
LME16L	LME16L-A	16 $^{+0.011}_{-0.001}$	26 $^{0}_{-0.011}$	70 $^{0}_{-0.3}$	49.8 $^{0}_{-0.3}$	1.3	24.9	1230	2350	5	145
LME20L	LME20L-A	20 $^{+0.013}_{-0.002}$	32 $^{0}_{-0.013}$	80 $^{0}_{-0.4}$	61 $^{0}_{-0.4}$	1.6	30.3	1400	2750	5	180
LME25L	LME25L-A	25 $^{+0.013}_{-0.002}$	40 $^{0}_{-0.013}$	112 $^{0}_{-0.4}$	82 $^{0}_{-0.4}$	1.85	38	1560	3140	6	440
LME30L		30 $^{+0.016}_{-0.004}$	47 $^{0}_{-0.015}$	123 $^{0}_{-0.4}$	104.2 $^{0}_{-0.4}$	1.85	44.5	2490	5490	6	580
LME40L		40 $^{+0.016}_{-0.004}$	62 $^{0}_{-0.015}$	154 $^{0}_{-0.4}$	121.2 $^{0}_{-0.4}$	2.15	59	3430	8040	6	1170
LME50L		50 $^{+0.016}_{-0.004}$	75 $^{0}_{-0.015}$	192 $^{0}_{-0.4}$	155.2 $^{0}_{-0.4}$	2.65	72	6080	15900	6	3100
LME60L		60 $^{+0.016}_{-0.004}$	90 $^{0}_{-0.020}$	211 $^{0}_{-0.4}$	170 $^{0}_{-0.4}$	3.15	86.5	7650	20000	6	3500

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LME_AJ ADJUSTABLE LINEAR BUSHING |



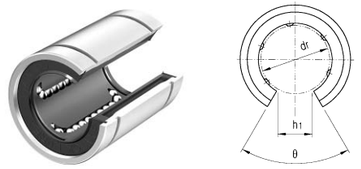
European Standard Samick Linear Bushing **LME** 20 UU **AJ** – A N S

- **Nominal Shaft Diameter**
- **Seal**
  - Blank : No Seal
  - U : One Side Seal
  - UU : Both Side Seal
- **Linear Bushing Adjustable type**
- **Retainer**
  - Blank : Resin retainer(Standard)
  - A : Steel retainer(High temperature)
- **Outer-sleeves (by corrosion resistance type)**
  - Blank : No-plaiting(Standard)
  - N : Electroless nickel plating
  - R : Raydent treatment
- **Ball type (by corrosion resistance)**
  - Blank : High carbon bearing steel ball (standard)
  - S : Stainless steel ball

PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	B mm CLEARANCE	W	D_1	h	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LME5AJ		5	12 $^{0}_{-0.008}$	22	14.5	1.1	11.5	1	200	260	4	12
LME8AJ	LME8AJ-A	8 $^{+0.008}_{0}$	16 $^{0}_{-0.008}$	25	16.5	1.1	15.2	1	260	400	4	20
LME12AJ	LME12AJ-A	12	22 $^{0}_{-0.009}$	32 $^{0}_{-0.2}$	22.9 $^{0}_{-0.2}$	1.3	21	1.5	410	590	4	41
LME16AJ	LME16AJ-A	16 $^{+0.009}_{-0.001}$	26	36	24.9	1.3	24.9	1.5	770	1170	5	57
LME20AJ	LME20AJ-A	20	32	45	31.5	1.6	30.3	2	860	1370	5	91
LME25AJ	LME25AJ-A	25 $^{+0.011}_{-0.001}$	40 $^{0}_{-0.011}$	58	44.1	1.85	37.5	2	980	1560	6	215
LME30AJ		30	47	68 $^{0}_{-0.3}$	52.1	1.85	44.5	2	1560	2740	6	325
LME40AJ		40	62 $^{0}_{-0.013}$	80	60.6 $^{0}_{-0.3}$	2.15	59	3	2150	4010	6	705
LME50AJ		50 $^{+0.013}_{-0.002}$	75	100 $^{0}_{-0.4}$	77.6	2.65	72	3	3820	7930	6	1130
LME60AJ		60	90 $^{0}_{-0.015}$	125	101.7 $^{0}_{-0.4}$	3.15	86.5	3	4700	9990	6	2220

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) Outer diameter is the obtained value before the slotting process.
Note 5) 1N ≒ 0.102kgf

| LME_OP OPEN LINEAR BUSHING |



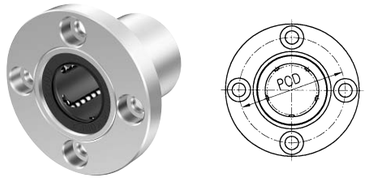
European Standard Samick Linear Bushing **LME** 20 UU **OP** – A N S

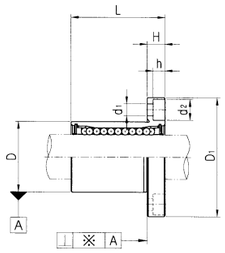
- **Nominal Shaft Diameter**
- **Seal**
  - Blank : No Seal
  - U : One Side Seal
  - UU : Both Side Seal
- **Linear Bushing Open type**
- **Retainer**
  - Blank : Resin retainer(Standard)
  - A : Steel retainer(High temperature)
- **Outer-sleeves (by corrosion resistance type)**
  - Blank : No-plaiting(Standard)
  - N : Electroless nickel plating
  - R : Raydent treatment
- **Ball type (by corrosion resistance)**
  - Blank : High carbon bearing steel ball (standard)
  - S : Stainless steel ball

PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	B mm CLEARANCE	W	D_1	h_1	θ	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LME12OP		12 $^{+0.008}_{0}$	22 $^{0}_{-0.009}$	32	22.9	1.3	21	7.5	78°	410	590	3	41
LME16OP		16 $^{+0.009}_{-0.001}$	26	36 $^{0}_{-0.2}$	24.9 $^{0}_{-0.2}$	1.3	24.9	10	78°	770	1170	4	57
LME20OP		20	32	45	31.5	1.6	30.3	10	60°	860	1370	4	91
LME25OP		25 $^{+0.011}_{-0.001}$	40 $^{0}_{-0.011}$	58	44.1	1.85	37.5	12.5	60°	980	1560	5	215
LME30OP		30	47	68 $^{0}_{-0.3}$	52.1 $^{0}_{-0.3}$	1.85	44.5	12.5	50°	1560	2740	5	325
LME40OP		40	62 $^{0}_{-0.013}$	80	60.6	2.15	59	16.8	50°	2150	4010	5	705
LME50OP		50 $^{+0.013}_{-0.002}$	75	100 $^{0}_{-0.4}$	77.6 $^{0}_{-0.4}$	2.65	72	21	50°	3820	7930	5	1130
LME60OP		60	90 $^{0}_{-0.015}$	125	101.7	3.15	86.5	27.2	54°	4700	9990	5	2220

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) Outer diameter is the obtained value before the slotting process.
Note 5) 1N ≒ 0.102kgf

| LMEF FLANGED LINEAR BUSHING |





European Standard Semick Circular Flanged Linear Bushing **LMEF** **20** **UU** **-** **A** **N** **S**

Nominal Shaft Diameter

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

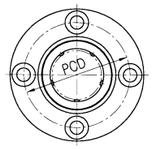
Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

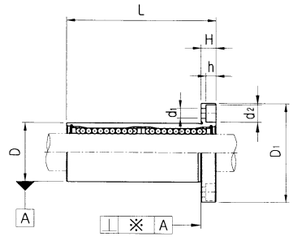
Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm	CLEARANCE	L mm	CLEARANCE	D1 mm	CLEARANCE	H	PCD	d1	d2	h	SQUARENESS ※(㎛)	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMEF8	LMEF8-A	8 +0.008 0	16	0 -0.008	25		32		5	24	3.4	6.5	3.3	12	260	400	4	44
LMEF12	LMEF12-A	12 0	22	0 -0.009	32	0 -0.2	42		6	32	4.5	8	4.4	12	410	590	4	86
LMEF16	LMEF16-A	16 +0.009 -0.001	26	0 -0.009	36		46	0 -0.2	6	36	4.5	8	4.4	12	770	1170	5	120
LMEF20	LMEF20-A	20 +0.009 -0.001	32		45		54		8	43	5.5	9.5	5.4	15	860	1370	5	184
LMEF25	LMEF25-A	25 +0.011 -0.001	40	0 -0.011	58		62		8	51	5.5	9.5	5.4	15	980	1560	6	335
LMEF30		30 +0.011 -0.001	47		68	0 -0.3	76		10	62	6.6	11	6.5	15	1560	2740	6	545
LMEF40		40	62	0 -0.013	80		98		13	80	9	14	8.6	20	2150	4010	6	1185
LMEF50		50 +0.013 -0.002	75		100		112	0 -0.3	13	94	9	14	8.6	20	3820	7930	6	1730
LMEF60		60	90	0 -0.015	125	0 -0.4	134		18	112	11	17.5	10.8	25	4700	9990	6	3180

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LMEF_L FLANGED LINEAR BUSHING |





European Standard Semick Circular Flanged Linear Bushing **LMEF** **20** **L** **UU** **-** **A** **N** **S**

Nominal Shaft Diameter

Linear Bushing Long type(for high load)

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

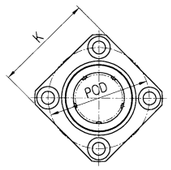
Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

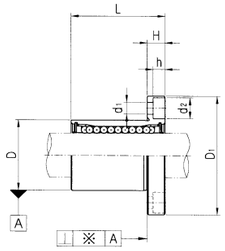
Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm	CLEARANCE	L mm	CLEARANCE	D1 mm	CLEARANCE	H	PCD	d1	d2	h	SQUARENESS ※(㎛)	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMEF8L	LMEF8L-A	8 +0.009 -0.001	16	0 -0.009	45		32		5	24	3.4	6.5	3.3	15	430	780	4	53
LMEF12L	LMEF12L-A	12	22	0 -0.0011	57	0 -0.3	42		6	32	4.5	8	4.4	15	650	1200	4	100
LMEF16L	LMEF16L-A	16 +0.011 -0.001	26		70		46	0 -0.2	6	36	4.5	8	4.4	15	1230	2350	5	187
LMEF20L	LMEF20L-A	20	32		80		54		8	43	5.5	9.5	5.4	17	1400	2750	5	260
LMEF25L	LMEF25L-A	25 +0.013 -0.002	40	0 -0.013	112		62		8	51	5.5	9.5	5.4	17	1560	3140	6	515
LMEF30L		30	47		123		76		10	62	6.6	11	6.5	17	2490	5490	6	655
LMEF40L		40	62	0 -0.015	154	0 -0.4	98		13	80	9	14	8.6	20	3430	8040	6	1560
LMEF50L		50 +0.016 -0.004	75		192		112	0 -0.3	13	94	9	14	8.6	20	6080	15900	6	3500
LMEF60L		60	90	0 -0.020	211		134		18	112	11	17.5	10.8	30	7650	20000	6	4500

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LMEK FLANGED LINEAR BUSHING |





European Standard Samick Square Flanged Linear Bushing **LMEK** **20** **UU** **-** **A** **N** **S**

Nominal Shaft Diameter

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

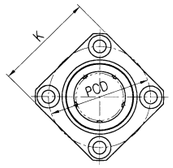
Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

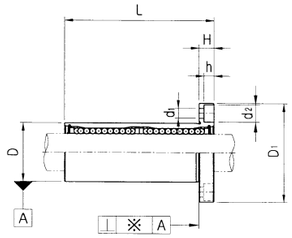
PART NUMBER Resin	PART NUMBER Steel	WORKING BORE DIAMETER dr, TOLERANCE	D mm TOLERANCE	L mm TOLERANCE	D1 mm TOLERANCE	H	PCD	K	d1	d2	h	SQUARENESS ※(㎛)	BASIC LOAD RATING(N) DYNAMIC(C)	BASIC LOAD RATING(N) STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMEK8	LMEK8-A	8 +0.008	16 0 −0.008	25	32	5	24	25	3.4	6.5	3.3	12	260	400	4	44
LMEK12	LMEK12-A	12 0	22 0 −0.009	32 0 −0.2	42	6	32	32	4.5	8	4.4	12	410	590	4	86
LMEK16	LMEK16-A	16 +0.009 −0.001	26 −0.009	36	46 0 −0.2	6	36	35	4.5	8	4.4	12	770	1170	5	120
LMEK20	LMEK20-A	20 −0.001	32	45	54	8	43	42	5.5	9.5	5.4	15	860	1370	5	184
LMEK25	LMEK25-A	25 +0.011 −0.001	40 0 −0.011	58	62	8	51	50	5.5	9.5	5.4	15	980	1560	6	335
LMEK30		30	47	68 0 −0.3	76	10	62	60	6.6	11	6.5	15	1560	2740	6	545
LMEK40		40	62	80	98 0 −0.3	13	80	75	9	14	8.6	20	2150	4010	6	1185
LMEK50		50 +0.013 −0.002	75 0 −0.013	100	112	13	94	88	9	14	8.6	20	3820	7930	6	1730
LMEK60		60	90 0 −0.015	125 0 −0.4	134	18	112	106	11	17.5	10.8	25	4700	9990	6	3180

ARYAN BEARING
JNS & NB exclusive agent

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LMEK_L FLANGED LINEAR BUSHING LONG |





European Standard Samick Square Flanged Linear Bushing **LMEK** **20** **L** **UU** **-** **A** **N** **S**

Nominal Shaft Diameter

Linear Bushing Long type(for high load)

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

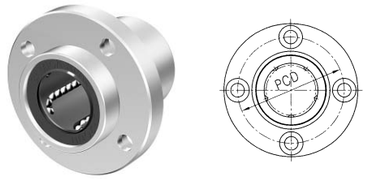
Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

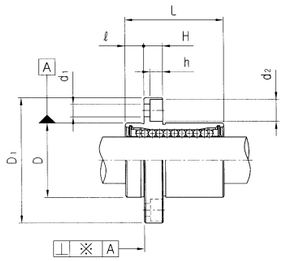
Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

PART NUMBER Resin	PART NUMBER Steel	WORKING BORE DIAMETER dr, CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	D1 mm CLEARANCE	H	PCD	K	d1	d2	h	SQUARENESS ※(㎛)	BASIC LOAD RATING(N) DYNAMIC(C)	BASIC LOAD RATING(N) STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMEK8L	LMEK8L-A	8 +0.009 −0.001	16 0 −0.009	45	32	5	24	25	3.4	6.5	3.3	15	430	780	4	53
LMEK12L	LMEK12L-A	12	22 0 −0.0011	57 0 −0.3	42	6	32	32	4.5	8	4.4	15	650	1200	4	100
LMEK16L	LMEK16L-A	16 +0.011 −0.001	26	70	46 0 −0.2	6	36	35	4.5	8	4.4	15	1230	2350	5	187
LMEK20L	LMEK20L-A	20	32	80	54	8	43	42	5.5	9.5	5.4	17	1400	2750	5	260
LMEK25L	LMEK25L-A	25 +0.013 −0.002	40 0 −0.013	112	62	8	51	50	5.5	9.5	5.4	17	1560	3140	6	515
LMEK30L		30	47	123	76	10	62	60	6.6	11	6.5	17	2490	5490	6	655
LMEK40L		40	62	154 0 −0.4	98	13	80	75	9	14	8.6	20	3430	8040	6	1560
LMEK50L		50 +0.016 −0.004	75 0 −0.015	192	112 0 −0.13	13	94	88	9	14	8.6	20	6080	15900	6	3500
LMEK60L		60	90 0 −0.020	211	134	18	112	106	11	17.5	10.8	30	7650	20000	6	4500

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LMEFP FLANGED LINEAR BUSHING |





European Standard Samick Circular Pilot Flanged Linear Bushing **LMEFP 20 UU - A N S**

Nominal Shaft Diameter

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

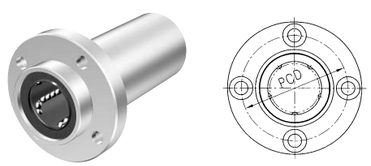
Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

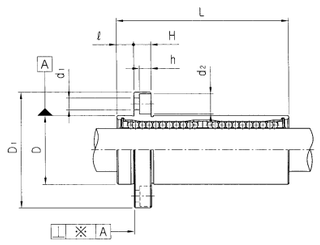
PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	D1 mm CLEARANCE	ℓ	H	PCD	d1	d2	h	SQUARENESS ※(μm)	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMEFP8	LMEFP8-A	8 +0.008	16 0 -0.008	25	32	5	5	24	3.4	6.5	3.3	12	260	400	4	44
LMEFP12	LMEFP12-A	12 0	22	32 0 -0.2	42	6	6	32	4.5	8	4.4	12	410	590	4	86
LMEFP16	LMEFP16-A	16 +0.009 -0.001	26 0 -0.009	36	46 0 -0.2	6	6	36	4.5	8	4.4	12	770	1170	5	120
LMEFP20	LMEFP20-A	20	32	45	54	8	8	43	5.5	9.5	5.4	15	860	1370	5	184
LMEFP25	LMEFP25-A	25 +0.011 -0.001	40 0 -0.011	58	62	8	8	51	5.5	9.5	5.4	15	980	1560	6	335
LMEFP30		30	47	68 0 -0.3	76	10	10	62	6.6	11	6.5	15	1560	2740	6	545
LMEFP40		40	62	80	98	13	13	80	9	14	8.6	20	2150	4010	6	1185
LMEFP50		50 +0.013 -0.002	75 0 -0.013	100	112 0 -0.3	13	13	94	9	14	8.6	20	3820	7930	6	1730
LMEFP60		60	90 0 -0.015	125 0 -0.4	134	18	18	112	11	17.5	10.8	25	4700	9990	6	3180

ARYAN BEARING
JNS & NB exclusive agent

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LMEFP_L FLANGED LINEAR BUSHING LONG |





European Standard Samick Circular Pilot Flanged Linear Bushing **LMEFP 20 L UU - A N S**

Nominal Shaft Diameter

Linear Bushing Long type(for high load)

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

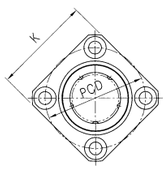
Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

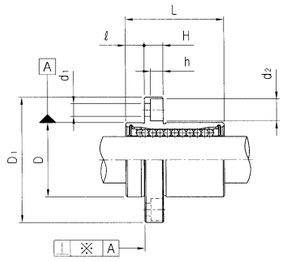
Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	D1 mm CLEARANCE	ℓ	H	PCD	d1	d2	h	SQUARENESS ※(μm)	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMEFP8L	LMEFP8L-A	8 +0.009 -0.001	16 0 -0.009	45	32	5	5	24	3.4	6.5	3.3	15	430	780	4	53
LMEFP12L	LMEFP12L-A	12	22 0 -0.011	57 0 -0.3	42	6	6	32	4.5	8	4.4	15	650	1200	4	100
LMEFP16L	LMEFP16L-A	16 +0.011 -0.001	26	70	46 0 -0.2	6	6	36	4.5	8	4.4	15	1230	2350	5	187
LMEFP20L	LMEFP20L-A	20	32	80	54	8	8	43	5.5	9.5	5.4	17	1400	2750	5	260
LMEFP25L	LMEFP25L-A	25 +0.013 -0.002	40 0 -0.013	112	62	8	8	51	5.5	9.5	5.4	17	1560	3140	6	515
LMEFP30L		30	47	123	76	10	10	62	6.6	11	6.5	17	2490	5490	6	655
LMEFP40L		40	62	154 0 -0.4	98	13	13	80	9	14	8.6	20	3430	8040	6	1560
LMEFP50L		50 +0.016 -0.004	75 0 -0.015	192	112 0 -0.3	13	13	94	9	14	8.6	20	6080	15900	6	3500
LMEFP60L		60	90 0 -0.020	211	134	18	18	112	11	17.5	10.8	30	7650	20000	6	4500

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LMEKP FLANGED LINEAR BUSHING |





European Standard Samick Square PilotFlanged Linear Bushing **LMEKP** **20** **UU** **-** **A** **N** **S**

Nominal Shaft Diameter

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

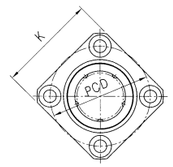
Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

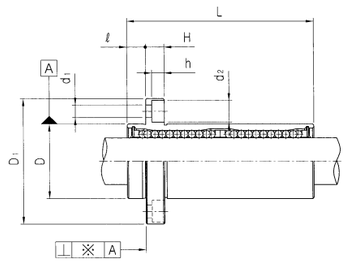
PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	D1 mm CLEARANCE	ℓ	H	PCD	K	d1	d2	h	SQUARENESS ※(μm)	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMEKP8	LMEKP8-A	8 +0.008 0	16 0 -0.008	25	32	5	5	24	25	3.4	6.5	3.3	12	260	400	4	44
LMEKP12	LMEKP12-A	12	22 0 -0.009	32 0 -0.2	42	6	6	32	32	4.5	8	4.4	12	410	590	4	86
LMEKP16	LMEKP16-A	16 +0.009 -0.001	26	36	46 0 -0.2	6	6	36	35	4.5	8	4.4	12	770	1170	5	120
LMEKP20	LMEKP20-A	20	32	45	54	8	8	43	42	5.5	9.5	5.4	15	860	1370	5	184
LMEKP25	LMEKP25-A	25 +0.011 -0.001	40 0 -0.011	58	62	8	8	51	50	5.5	9.5	5.4	15	980	1560	6	335
LMEKP30		30	47	68 0 -0.3	76	10	10	62	60	6.6	11	6.5	15	1560	2740	6	545
LMEKP40		40	62 0 -0.013	80	98	13	13	80	75	9	14	8.6	20	2150	4010	6	1185
LMEKP50		50 +0.013 -0.002	75	100	112 0 -0.3	13	13	94	88	9	14	8.6	20	3820	7930	6	1730
LMEKP60		60	90 0 -0.015	125 0 -0.4	134	18	18	112	106	11	17.5	10.8	25	4700	9990	6	3180

ARYAN BEARING
JNS & NB exclusive agent

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LMEKP_L FLANGED LINEAR BUSHING LONG |





European Standard Samick Square PilotFlanged Linear Bushing **LMEKP** **20** **L** **UU** **-** **A** **N** **S**

Nominal Shaft Diameter

Linear Bushing Long type(for high load)

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

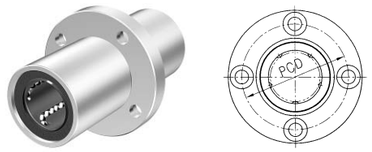
Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

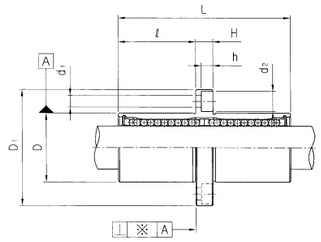
Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	D1 mm CLEARANCE	ℓ	H	PCD	K	d1	d2	h	SQUARENESS ※(μm)	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMEKP8L	LMEKP8L-A	8 +0.009 -0.001	16 0 -0.009	45	32	5	5	24	25	3.4	6.5	3.3	15	430	780	4	53
LMEKP12L	LMEKP12L-A	12	22 0 -0.011	57 0 -0.3	42	6	6	32	32	4.5	8	4.4	15	650	1200	4	100
LMEKP16L	LMEKP16L-A	16 +0.011 -0.001	26	70	46 0 -0.2	6	6	36	35	4.5	8	4.4	15	1230	2350	5	187
LMEKP20L	LMEKP20L-A	20	32	80	54	8	8	43	42	5.5	9.5	5.4	17	1400	2750	5	260
LMEKP25L	LMEKP25L-A	25 +0.013 -0.002	40 0 -0.013	112	62	8	8	51	50	5.5	9.5	5.4	17	1560	3140	6	515
LMEKP30L		30	47	123	76	10	10	62	60	6.6	11	6.5	17	2490	5490	6	655
LMEKP40L		40	62 0 -0.015	154 0 -0.4	98	13	13	80	75	9	14	8.6	20	3430	8040	6	1560
LMEKP50L		50 +0.016 -0.004	75	192	112 0 -0.3	13	13	94	88	9	14	8.6	20	6080	15900	6	3500
LMEKP60L		60	90 0 -0.020	211	134	18	18	112	106	11	17.5	10.8	30	7650	20000	6	4500

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LMEFM FLANGED LINEAR BUSHING LONG |





European Standard Samick Circular Middle-Flanged Linear Bushing **LMEFM** 20 UU – A N S

Nominal Shaft Diameter

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

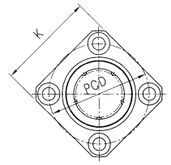
Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

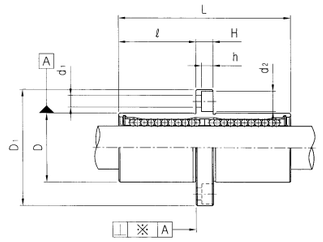
PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	D1 mm CLEARANCE	ℓ	H	PCD	d1	d2	h	SQUARENESS ※(㎛)	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMEFM8	LMEFM8-A	8 +0.009 −0.001	16 0 −0.009	45	32	20	5	24	3.4	6.5	3.3	15	430	780	4	53
LMEFM12	LMEFM12-A	12 +0.011 −0.001	22 0 −0.011	57 0 −0.3	42	25.5	6	32	4.5	8	4.4	15	650	1200	4	100
LMEFM16	LMEFM16-A	16 +0.011 −0.001	26 0 −0.011	70	46 0 −0.2	32	6	36	4.5	8	4.4	15	1230	2350	5	187
LMEFM20	LMEFM20-A	20 +0.013 −0.002	32	80	54	36	8	43	5.5	9.5	5.4	17	1400	2750	5	260
LMEFM25	LMEFM25-A	25 +0.013 −0.002	40 0 −0.013	112	62	52	8	51	5.5	9.5	5.4	17	1560	3140	6	515
LMEFM30		30	47	123	76	56.5	10	62	6.6	11	6.5	17	2940	5490	6	655
LMEFM40		40	62	154 0 −0.4	98	70.5	13	80	9	14	8.6	20	3430	8040	6	1560
LMEFM50		50 +0.016 −0.004	75 0 −0.015	192	112 0 −0.3	89.5	13	94	9	14	8.6	20	6080	15900	6	3500
LMEFM60		60	90 0 −0.020	211	134	96.5	18	112	11	17.5	10.8	30	7650	20000	6	4500

ARYAN BEARING
JNS & NB exclusive agent

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf

| LMEKM FLANGED LINEAR BUSHING LONG |





European Standard Samick Square Middle-Flanged Linear Bushing **LMEKM** 20 UU – A N S

Nominal Shaft Diameter

Seal
Blank : No Seal
U : One Side Seal
UU : Both Side Seal

Retainer
Blank : Resin retainer(Standard)
A : Steel retainer(High temperature)

Outer-sleeves (by corrosion resistance type)
Blank : No-plaiting(Standard)
N : Electroless nickel plating
R : Raydent treatment

Ball type (by corrosion resistance)
Blank : High carbon bearing steel ball (standard)
S : Stainless steel ball

PART NUMBER Resin	Steel	WORKING BORE DIAMETER dr. CLEARANCE	D mm CLEARANCE	L mm CLEARANCE	D1 mm CLEARANCE	ℓ	H	PCD	K	d1	d2	h	SQUARENESS ※(㎛)	BASIC LOAD RATING(N) DYNAMIC(C)	STATIC(Co)	NO. OF BALL CIRCUIT	WEIGHT (gf)
LMEKM8	LMEKM8-A	8 +0.009 −0.001	16 0 −0.009	45	32	20	5	24	25	3.4	6.5	3.3	15	430	780	4	53
LMEKM12	LMEKM12-A	12 +0.011 −0.001	22 0 −0.011	57 0 −0.3	42	25.5	6	32	32	4.5	8	4.4	15	650	1200	4	100
LMEKM16	LMEKM16-A	16 +0.011 −0.001	26 0 −0.011	70	46 0 −0.2	32	6	36	35	4.5	8	4.4	15	1230	2350	5	187
LMEKM20	LMEKM20-A	20 +0.013 −0.002	32	80	54	36	8	43	42	5.5	9.5	5.4	17	1400	2750	5	260
LMEKM25	LMEKM25-A	25 +0.013 −0.002	40 0 −0.013	112	62	52	8	51	50	5.5	9.5	5.4	17	1560	3140	6	515
LMEKM30		30	47	123	76	56.5	10	62	60	6.6	11	6.5	17	2940	5490	6	655
LMEKM40		40	62	154 0 −0.4	98	70.5	13	80	75	9	14	8.6	20	3430	8040	6	1560
LMEKM50		50 +0.016 −0.004	75 0 −0.015	192	112 0 −0.3	89.5	13	94	88	9	14	8.6	20	6080	15900	6	3500
LMEKM60		60	90 0 −0.020	211	134	96.5	18	112	106	11	17.5	10.8	30	7650	20000	6	4500

Note 1) 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 C_{100} = 410 / 1.26 = 325.40N
Note 2) Based on the weight of resin retainer
Note 3) Dimension : mm
Note 4) 1N ≒ 0.102kgf