



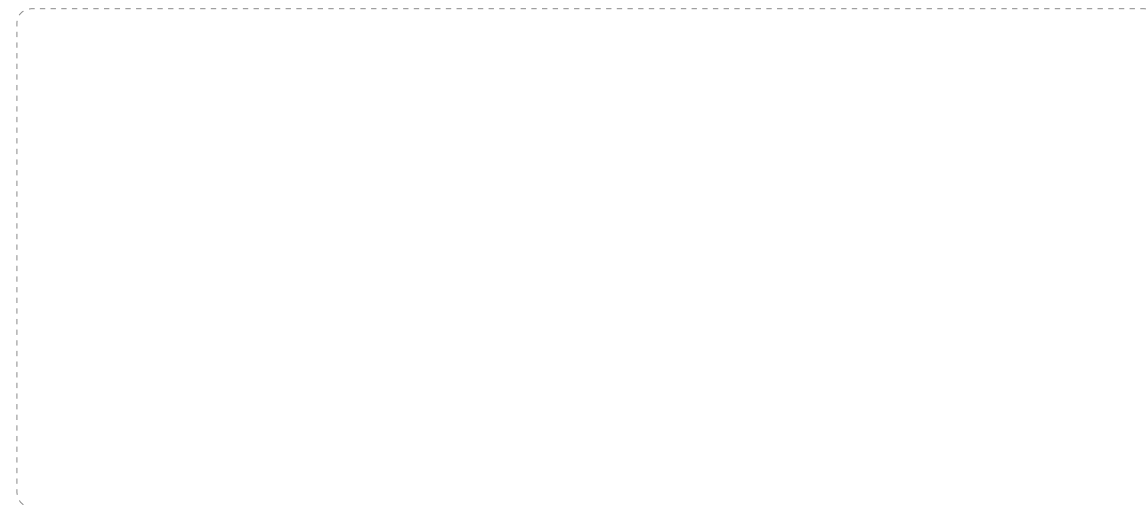
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浙江顶创精密制造有限公司
ZHEJIANG ACME PRECISION
MANUFACTURING CO. LTD.



直线轴承
Linear Motion Ball Bearings





彰显活力 憧憬未来
Highlight the vitality of longing for the future

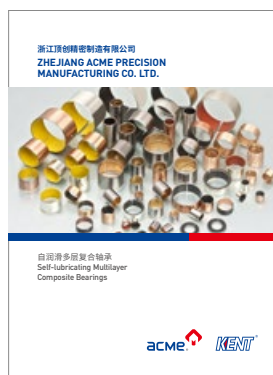
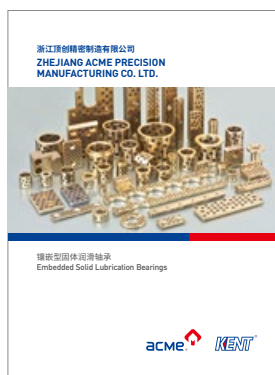
公司简介 Company Profile

浙江顶创精密制造有限公司，成立于2010年。坐落于浙江省嘉善县城西开发区内，总占地面积2227平方米，总建筑面积7882平方米；我司为外资独资企业，由台湾贞维有限公司投资。为追求更好的服务品质，我司决定于2014年转型为工贸一体企业，集研发、生产和销售于一体。专业生产无油自润滑轴承，广泛应用于各种机械行业、水利工程、航天领域、汽车制造、重型工业、国家建设项目，例如：桥梁、水坝工程及船舶工业。

其除如滚针、直线、及滚珠类轴承我司为追求品质控制及其稳定性，均投资于战略合作夥伴，详细内容将分列于专业样本里，欢迎广大海内外客户对我的支持与指教，诚挚邀请各尊敬的客户莅临指教。

Zhejiang Acme Precision Manufacturing Co. Ltd., founded in 2010. Zhejiang province is located in the west of Jiashan County Development Zone, covers an area of 2227 square meters, total construction area of 7882 square meters; Acme Precision is a foreign - owned enterprises, invested by Jenn Weir Co, Ltd. For the pursuit of better quality of service, our company decided in 2014 transformed into one industry and trade enterprises, combined RD, production and international sales in one. Specializing in the production of self-lubricated bearings, which widely used in all kinds of machinery industry, hydraulic engineering, aerospace, automobile manufacturing, heavy industry, the national construction projects, such as: bridge, dam engineering and shipbuilding industry.

For the rest of the needle roller bearing, ball bearings and linear bearings. In order to reach our pursuit of quality control and stability, we invest in several strategic partners, the details will be listed in seperated catalogs. We are pleased to have all customers pay a visit to our company and wish you can give us your suggestions and advises. Your visiting would be our honour.



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直线轴承系列 Linear Motion Ball Bearing

标准型
P.07 LM
P.09 LME
P.13 LMB



间隙调整型
P.07 LM...AJ
P.09 LME...AJ
P.13 LMB...AJ



开口型
P.07 LM-OP
P.09 LME-OP
P.13 LMB-OP



加长型
P.11 LM...L
P.12 LME...L
P.15 LMB...L



通用型
P.17 ST



冲压外圈型 Pressing Bush Bearing

冲压外圈型
P.19 KH



法兰式 直线轴承 Flanged Linear Motion Ball Bearing

圆法兰型
P.23 LMF
P.43 LMEF
P.49 LMBF



方法兰型
P.23 LMK
P.43 LMEK
P.49 LMBK



椭圆法兰型
P.25 LMH




导向圆法兰型
P.27 LMFP




导向方法兰型
P.27 LMKP




导向椭圆法兰型
P.29 LMHP




加长圆法兰型
P.31 LMF...L
P.45 LMEF...L
P.51 LMBF...L



加长方法兰型
P.31 LMK
P.45 LMEK
P.51 LMBK



加长椭圆法兰型
P.33 LMH...L




加长导向圆法兰型
P.35 LMFP...L




加长导向方法兰型
P.35 LMKP...L



加长导向椭圆法兰型
P.37 LMHP...L




加长中间圆法兰型
P.39 LMFM...L
P.47 LMEFM...L
P.53 LMBFM...L



加长中间方法兰型
P.39 LMKM...L
P.47 LMEKM...L
P.53 LMBKM...L




加长中间椭圆法兰型
P.41 LMHM...L



直线轴承
箱式单元
Linear Motion
Ball Bearing
Slide Units

标准型
P.57 SC
P.59 SCE




加长型
P.57 SC...L
P.59 SCE...L



短型
P.57 SC...S
P.59 SCE...S



间隙可调型
P.56 SCJ




支撑导轨单元
Support Rail
Units


SBR系列
P.64



TBR系列
P.65



SBR...S系列
P.64



TBR...S系列
P.65



SBS/TBS系列
P.62-63



轴支座
Shaft Support

SH系列
P.66



SHF系列
P.67



直线轴
Slide Shafts

SF系列
P.68



直线轴承 Linear Motion Ball Bearing

结构和优点 Structure and Features

- ACME直线轴承由外圈、钢球、保持架和挡圈组成。保持架能将钢球约束在循环轨道中，挡圈将保持架固定在外圈中。
- 这些零件组装在一起便使轴承具有最佳的功能。
- 外圈经热处理后，具有足够的硬度，从而保证其足够的行走寿命和满意的承载能力。
- 保持架用钢或尼龙制作。用户可根据使用条件从中选择。
- The ACME linear motion bearing consists of an outer cylinder, ball retainer, balls and two end rings. The ball retainer which holds the balls in the recirculating trucks in held inside the outer cylinder by end rings.

1. 高精度和刚性 High Precision and Rigidity

ACME直线轴承外圈是钢制的坚固的外圆柱型，保持架为轧制钢板或具有工业强度的尼龙制成。

The ACME linear motion bearing is produced from a solid steel outer cylinder. Also the linear motion bearing incorporates either a patented all steel hardend seamless ball retainer or an industrial strength resin ratainen.

2. 易于安装 Ease of Assembly

普通型的直线轴承可以作任何方向安装，仅使用轴为支撑便可精确地工作。安装表面也易于加工。ACME提供能安装各种类型直线轴承的各种各样的轴承座，给设计和安装提供了方便。

The standard type of ACME linear motion bearing can be loaded from any diracton. Precision control is possible using only the shaft supporter, and the mounting surface can be machined easily. ACME also provides a variety of housings for all types of slide bushings, offering convenience of design and assembly.

- Those parts are assembled to optimize their required functions.
- The outer cylinder is maintained sufficient hardness by heat treatment, therefore it ensures the bushings projected travel life and satisfactory durability.
- The ball retainer is made from steel or resin. The steel retainer has high rigidity obtained by heat treatment. The user can select the optimum type for meeting the users service conditions.

3. 易于更换 Ease of Replacement

由于直线轴承尺寸标准化和高的加工精度，故每一套轴承都具有互换性，由于磨损和损坏而需更换轴承是很方便的。

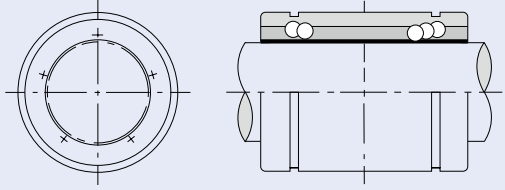
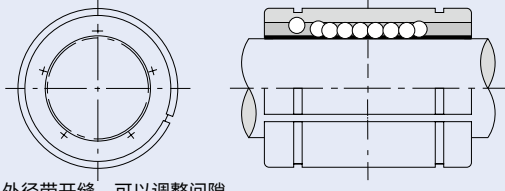
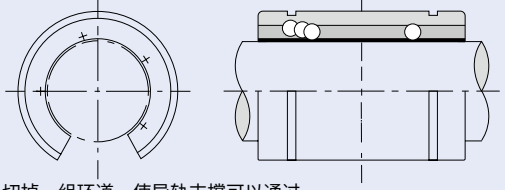
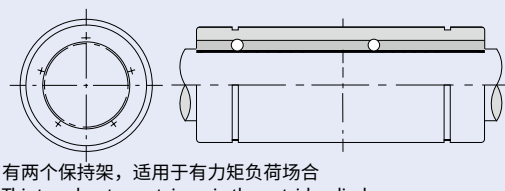
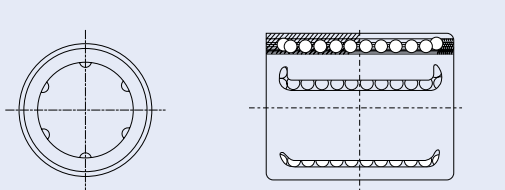
ACME linear motion bearing of each type are completely interchangeable because of their standardized dimensions and strict precision control. Replacement because of wear or damage is therefore easy and accurate.

4. 品种齐全 Variety of Types

ACME直线轴承型号齐全，有普通型、间隙调整型、开口型、加长型和带法兰型。用户可以根据需要从中选择。

ACME offers a full line of linear motion bearing: the standard, integral single-retainer closed type, the clearance adjustable type and the open. double-retainer, and flanged types. The user can choose from among these according to the applicaton requirements to be met.

直线轴承的类型 Type of Linear Motion Ball Bearings

类型 Type	结构 Description	材料 Material		所在页码 Dimension table page		
		外圈 Outer cylinder	保持架 Retainer	LM Series	LME Series	LMB Series
标准型 Standard Type	 封闭外圆型 Closed type outside cylinder.	钢 Steel	钢 Steel			
			尼龙 Resin			
间隙调整型 Adjustable Type	 外径带开缝，可以调整间隙 This type has a slot in the outside cylinder. This design allows for clearance adjustment.	钢 Steel	钢 Steel			
			尼龙 Resin			
开口型 Open Type	 切掉一组环道，使导轨支撑可以通过 One ball circuit is removed to allow an opening slot to fit over aril supports.	钢 Steel	钢 Steel			
			尼龙 Resin			
加长型 Double-Wide Type	 有两个保持架，适用于有力矩负荷场合 This type has two retainers in the outsidecylinder. This structure is useful when momentloads are applied to the slide bush.	钢 Steel	钢 Steel			
			尼龙 Resin			
冲压外圈型 Pressing Outer Race Type	 外圈是冲压的 Outer race is pressing	钢 Steel	尼龙 Resin			

直线轴承的代号 Type Number Format

公称轴径 Nominal Shaft Diameter		密封 Seal
LM 公制, 亚洲应用广泛 Metric dimenson series most widely used in Asia	25	标准型 Standard type
LME 公制, 主要是欧洲使用 Metric dimenson series generally used in Europe		可调型 Adjustable type
LMB 英制, 主要是美洲使用 Inch dimenson series used mainly in America	L 25	双密封 Double seal
	UU	
	AJ	

公差
Tolerance

● ACME直线轴承有普通型和精密型两种，在样本中有标明。需要说明的是对于间隙调整型(---AJ)和开口型(---OP)的钢球总体内径和外径的公差是在切口之前测量的。

额度负荷和寿命估算

- 直线轴承的额定寿命可以根据轴承的额定动负荷和工作负荷利用下式计算出：
- The rated life (L) of a slide bush can be obtained from the following equation with the basic dynamic load rating and the load applied to the slide bush:

$$L = \left(\frac{f_H \cdot f_T \cdot f_C}{f_W} \cdot \frac{C}{P} \right)^3 \cdot 50 \quad (1)$$

L: 额定寿命Rated life(km) fh: 硬度系数Hardness factor
c: 基本额定动负荷 ft: 湿度系数Temperature coefficient
Basic dynamic load rating(N) fc: 接触系数Contact coefficient
P: 工作负荷Working load(N)
fw: 负荷系数Load coefficient

● The ACME linear motion ball bearing are divided into high class and precision class, indicated in the dimension tables. Note that precision of inscribed circle diameters and outside diameters for the clearance adjustable type (---AJ) and the open type (---OP) indicates the value obtained before the corresponding type is subjected to cutting process.

- 直线轴承的时间寿命可以根据每分钟行走距离进行计算。
- 如果行程长度、往复次数恒定，则时间寿命可用下式算出。
- The lifespan (L_h) of a slide bush in hours can be obtained by calculating the traveling distance per unit time.
- The lifespan can be obtained from the following equation if the stroke length and the number of strokes are constant:

$$L_h = \left(\frac{L \cdot 10^3}{2 \cdot \ell_s \cdot n_1 \cdot 60} \right) \quad (2)$$

L_H: 时间寿命 Lifespan(hr)^{ℓs} : 行程长度 Stroke length(m)
L: 额定寿命 Rated life(km) n₁: 每分钟往复数 Number of strokes per minute(CPM)

钢球列数与额定负荷的关系

● ACME直线轴承的几组钢球在圆周上是均匀分布的，负荷在圆周上作用点的位置不同则轴承的额定负荷也不同。产品样本上的额定负荷是负荷正对着一组钢球时的数值。如果负荷是作用在二组球道正中间，则额定负荷会大一些，下表列出了不同球列数的额定负荷的各种情况:

表1 Table1

作用位置 Row position		鋼球列数 Number of rows		3		4		5		6		8	
		作用位置 Row position		 $Q_1=P_0$	 $Q_1=P_0$	 $Q_1=1.106P_0$	 $Q_1=1.354P_0$	 $Q_1=1.841P_0$					
作用位置 Row position		作用位置 Row position		 $Q_0=P_0$	 $Q_0=1.414P_0$	 $Q_0=1.618P_0$	 $Q_0=1.732P_0$	 $Q_0=2.052P_0$					
		额定负荷 Load ratio		$Q_0/Q_1=1$		$Q_0/Q_1=1.414$		$Q_0/Q_1=1.463$		$Q_0/Q_1=1.280$		$Q_0/Q_1=1.115$	

● The ACME linear motion ball bearing includes ball Circuits that are spaced equally and circumferentially. The load rating varies according to the loaded position on the circumference. The value in the dimension table indicates the load rating when the load is placed on top of one ball circuit. If the ACME Slide bush is used with two ball circuits loaded uniformly, the load rating will be greater. The following table shows the values by the number of ball circuits in such cases:

计算实例

Sample Calculations

① 根据下列条件计算轴承额定寿命：
Obtaining the rated life Land lifespan L_h of the KENT slide bush used
in the following conditions:

轴承型号 Slide bush: LM20
行程长度 Stroke length: 50mm
每分钟往复数 Number of strokes per minute: 50次/分(cpm)
每套轴承承受负荷 Load per bush: 490N

从产品样本中查得LM-20额定动负荷为882N，额定寿命用下式算出：
The basic dynamic load rating of the slide bush is 882N from the dimension table. From equation(1), therefore, the rated life L is obtained as follows:

$$L = \left(\frac{f_H \cdot f_T \cdot f_C}{f_W} \cdot \frac{C}{P} \right) \cdot 50 \quad f_H = f_T = f_C = f_W = 1.0$$

$$= \left(\frac{882}{490} \right)^3 \times 50 = 292 \text{ km}$$

根据式(2)，时间寿命计算如下：
From equation(2), the lifespan L_h is obtained as follows

$$L_h = \frac{L \times 10^3}{2 \times t_s \times n_1 \times 60} = \frac{292 \times 10^3}{2 \times 0.05 \times 50 \times 60} = 973_{hr}$$

② 根据下列使用条件选择轴承:

Selecting the slide bush type satisfying the following conditions:

设备安装的直线轴承数量 Number of slide bushes used: 4套

行程长度 Stroke length: 1米(m)

行走速度 Traveling speed: 10米份~(m/min)

往复次数 Number of strokes per minute: 5次/分钟(cpm)

时间寿命 Lifespan: 10,000小时(hr)

总负荷 Total load: 980N

根据式(2), 行走寿命可以从时间寿命中换算出:

From equation(2), the traveling distance within the lifespan is obtained as follows:

$$L = 2 \times \ell_s \times n_1 \times 60 \times L_h = 6,000 \text{ km}$$

根据式(1)，额定动负荷计算如下：
From equation(1), the basic dynamic load rating is obtained as follows:

$$C = \sqrt[3]{\frac{L}{50}} \cdot \left(\frac{f_W}{f_H \cdot f_I \cdot f_C} \right) \cdot P = 1492 \text{ N}$$

假设使用二根轴，每根轴装二套直线轴承：
Assume the following with a pair of shafts each with wto slide bushes:

$$f_C = 0.81, \quad f_W = f_T = f_H = 1$$

结果从样本中选LM30便可满足额定动负荷的要求。
As a result, LM30 is selected from the dimension table as the ACME slide bush type satisfying the value of C.

间隙和配合

Clearance and Fit

●当一套标准型的直线轴承装到轴上时，间隙不合适会使轴承过早地破坏、失效或运行不平稳。调整型和开口型直线轴承装到可以控制外径尺寸的轴承座中，可以调整其间隙。然而过大的间隙调整会增加外圈的变形，影响精度和寿命。因此轴承与轴之间的间隙，外径与轴承座孔之间的间隙应根据使用条件来决定。表2为推荐的配合。

●When a standard-type ACME slide bush is used with a shaft, inadequate clearance adjustment may cause early bush failure

and/or poor, rough travelling. The clearance adjustable slide bush and open slide bush can be clearance adjusted when assembled in the housing which can control the outside cylinder diameter. However, too much clearance adjustment increases the deformation of the outside cylinder, to affect its precision and life. Therefore, the appropriate clearance between the bush and shaft, and clearance between the bush and housing are required according to the application. Table 2 shows recommended fit of the bush:

表2 Table2

模型 Model	类别 Division	轴 Shaft		轴承座 Housing	
		一般配合 Normal fit	紧配合 Transitional fit	较松配合 Loose fit	较紧配合 Tight fit
LM	High class	g6	h6	H7	J7
LMB	Precision class	g5	h5	H6	J6
LME	High class	h6	j6	H7	J7

注：间隙可以为零，也可以为负值，请注意运行情况 Note: The clearance may be zero or negative, Please attention the movement

轴和轴承座

Shaft and Housing

●为了使直线轴承发挥最佳的性能，必须使用高精度的轴和轴承座。

●To optimize performance of the ACME slide bush, high precision of the shaft and housing is required.

1. 轴Shaft

ACME直线轴承的钢球与轴的表面是点接触，因此轴的尺寸、公差、表面粗糙度和硬度极大的影响轴承运作性能，轴的生产应注意以下几点：

The rolling balls in the ACME slide bush are in point contact with the shaft surface. Therefore, the shaft dimensions, tolerance, surface finish, and harness greatly affect the travelling performance of the bush. The shaft should be manufactured with due attention to the following points:

1)因为表面粗糙度极大的影响运作的平稳性，因此轴表面粗糙度应达到Ra0.3或更好。

Since the surface finish critically affects smooth rolling of balls, grind the shaft at 1.5 S or better.

2)最佳硬度是HRC 60~64，硬度低于HRC 60会明显地降低寿命，故而降低了承载能力。另一方面，硬度超过HRC 64，会加速轴承钢球的磨损。

The best hardness of the shaft is HRC 60 to 64. Hardness less than HRC 60 decreases the life considerably, and hence reduces the permissible load. On the other hand, harness over HRC 64 accelerates ball wear.

3)对间隙调整型和开口型直线轴承，其轴的直径应尽可能地低于产品样本中规定的钢球总体内径公差的下限，不得使轴的尺寸处于公差的上限。

The shaft diameter for the clearance adjustable slide bush and open slide bush should as much as possible be of the lower value of the inscribed circle diameter in the specification table. Do not set the shaft diameter to the upper value.

4)零间隙和负间隙会使摩擦阻力有所增加。如果负间隙过大，加速了外圈的变形，从而降低轴承的寿命。

Zero clearance or negative clearance increases the frictional resistance slightly. If the negative clearance is too tight, the deformation of the outside cylinder will become larger, to shorten the bush life.

ACME直线轴承在尺寸公差、表面粗糙度和硬度方面都严格的控制，是与直线轴承配套的理想轴。详见样本光轴部分。

The ACME slide shaft is an ideal bush slide shaft manufactured in due consideration of dimensional tolerance, surface finish, and hardness. For details, refer to the section on slide shafts.

2. 轴承座Housing

我们轴承座有不同的结构，加工方法和安装方法可供用户选择。对于这些轴承座的配合和形状见表2。

We provide a wide range of housings differing in design, machining and mounting. For the fitness and shapes of housings, see Table 2 and the following section on mounting.

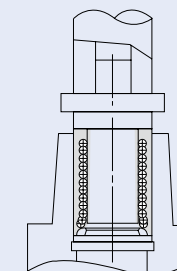
安装

Mounting

●将直线轴承安装到轴承座孔中，不要敲打两端的挡圈(密封圈)，而是用手将其推入或轻轻地敲打(见图1)。轴承安装到轴承座中之后再仔细地将光轴插入，注意不要碰击钢球。如果同时使用二根平行的轴，则轴的平行度对保证轴承的平稳运行是非常重要的，一定要仔细地安装。

●When inserting the slide bush into the housing, do not hit the slide bush on the side ring holding the retainer but apply the cylinder circumference with a proper jig and push the slide bush into the housing by hand or lightly knock it in. (See Fig. 1) In inserting the shaft after mounting the bush, be careful not to shock the balls. Note that if two shafts are used in parallel, the parallelism is the most important factor to assure the smooth linear movement. Take care in setting the shafts.

Fig.1



安装实例

Examples of Mounting

●通常的安装方法是将轴承推入座孔时阻力要适宜，然而我们建议尽量采用较松的配合，否则轴承的精度会下降。

●图2~图6介绍了几种安装结构和固定方法供参考。

●The popular way to mount a slide bush is to operate it with an appropriate interference. It is recommended, however, to make a loose fit in principle because otherwise precision is apt to be minimized. The following examples(Figs. 2 to 6) show assembling of the inserted bush in terms of designing and mounting, for reference.

Fig.2

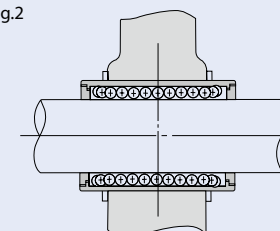


Fig.3

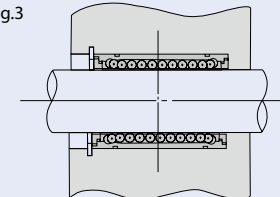


Fig.4

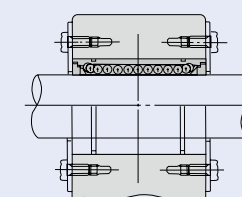


Fig.5

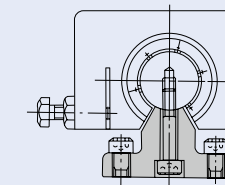
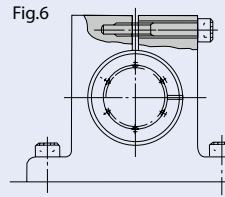



Fig.6

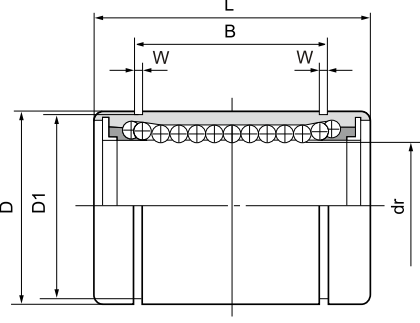


直线轴承系列
Linear Motion Ball Bearing Series

LM...UU 尼龙保持架
该类型尺寸是公制的，广泛用于亚洲和其它国家。

LM...UU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other countries.





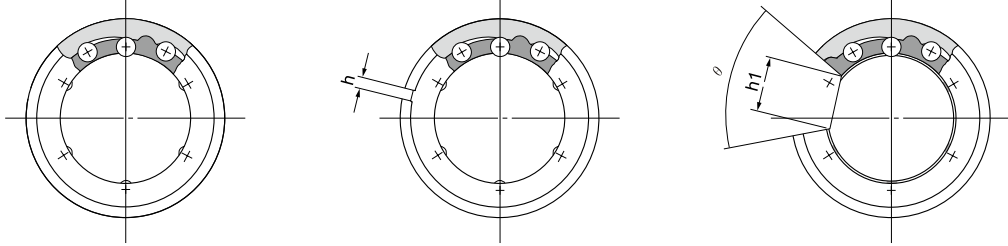
LM...UU LM...UU-AJ LM...UU-OP

公称轴径 Nominal shaft diameter mm	尼龙保持架 Resin retainer									mm	dr	
	标准型 LM····UU	钢球列数 Ball circuit	重量 Weight (g)	间隙调整型 LM····UU-AJ	钢球列数 Ball circuit	重量 Weight (g)	开口型 LM····UU-OP	钢球列数 Ball circuit	重量 Weight (g)		公差 Tolerance μ m	
											精密 Precision	普通 High
3	LM3	4	1.35	—	—	—	—	—	—	3	0 -5	0 -8
4	LM4	4	1.9	—	—	—	—	—	—	4		
5	LM5UU	4	4	—	—	—	—	—	—	5		
6	LM6UU	4	7.6	LM6UU-AJ	4	7.5	—	—	—	6	0 -6	0 -9
8	LM8SUU	4	10.4	LM8SUU-AJ	4	10	—	—	—	8		
8	LM8UU	4	15	LM8UU-AJ	4	14.7	—	—	—	8		
10	LM10UU	4	29.5	LM10UU-AJ	4	29	LM10UU-OP	3	23	10		
12	LM12UU	4	31.5	LM12UU-AJ	4	31	LM12UU-OP	3	25	12		
13	LM13UU	4	43	LM13UU-AJ	4	42	LM13UU-OP	3	34	13		
16	LM16UU	5	69	LM16UU-AJ	5	68	LM16UU-OP	4	52	16	0 -7	0 -10
20	LM20UU	5	87	LM20UU-AJ	5	85	LM20UU-OP	4	69	20		
25	LM25UU	6	220	LM25UU-AJ	6	216	LM25UU-OP	5	188	25		
30	LM30UU	6	250	LM30UU-AJ	6	245	LM30UU-OP	5	210	30	0 -8	0 -12
35	LM35UU	6	390	LM35UU-AJ	6	384	LM35UU-OP	5	335	35		
40	LM40UU	6	585	LM40UU-AJ	6	579	LM40UU-OP	5	500	40		
50	LM50UU	6	1,580	LM50UU-AJ	6	1,560	LM50UU-OP	5	1,340	50	0 -9	0 -15
60	LM60UU	6	1,860	LM60UU-AJ	6	1,820	LM60UU-OP	5	1,610	60		
80	LM80UU	6	4,420	LM80UU-AJ	6	4,300	LM80UU-OP	5	3,650	80		
100	LM100UU	6	8,600	LM100UU-AJ	6	8,540	LM100UU-OP	5	7,200	100	0 -10	0 -20
120	LM120UU	8	15,000	LM120UU-AJ	8	14,900	LM120UU-OP	6	11,600	120	0 -13	0 -25
150	LM150UU	8	20,250	LM150UU-AJ	8	20,150	LM150UU-OP	6	15,700	150		

密封型 Seal type:	不标	不带密封	No entry	No seals
LM20 UU	U	单密封	U	Seal on one side
	UU	双密封	UU	Seal on both sides

注：小尺寸（3和4mm内径）无密封。
Note: Smaller sizes (3 and 4mm I.D.) are non-seal type only.

直线轴承系列
Linear Motion Ball Bearing Series



LM...UU LM...UU-AJ LM...UU-OP

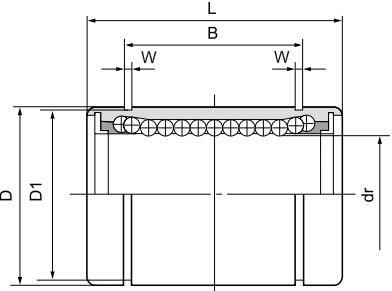

主要尺寸和公差 Major dimensions and tolerance										偏心 Eccentricity μ m		最大 径向间隙 Radial clearance (Max) μ m	额定负荷 Basic load rating	
D	公差 Tolerance μ m	L	公差 Tolerance μ m	B	公差 Tolerance μ m	W	D ₁	h	h ₁	Θ	精密 Precision	普通 High	动负荷 Dynamic C N	静负荷 Static Co N
7	0	10	0	—	—	—	—	—	—	—	4	8	69	105
8	-9	12	-120	—	—	—	—	—	—	—			88	127
10		15		10.2		1.1	9.6	—	—	—			167	206
12	0	19		13.5		1.1	11.5	1	—	—			206	265
15	-11	17		11.5		1.1	14.3	1	—	—			176	216
15		24		17.5		1.1	14.3	1	—	—			274	392
19		29	0	22	-200	1.3	18	1	6.8	80°	8	12	372	549
21	0	30	-200	23		1.3	20	1.5	8	80°			510	784
23	-13	32		23		1.3	22	1.5	9	80°			510	784
28		37		26.5		1.6	27	1.5	11	80°			774	1,180
32	0	42		30.5		1.6	30.5	1.5	11	60°	10	15	882	1,370
40	-16	59		41		1.85	38	2	12	50°			980	1,570
45		64		44.5		1.85	43	2.5	15	50°			1,570	2,740
52	0	70	0	49.5	-300	2.1	49	2.5	17	50°			1,670	3,140
60	-19	80	-300	60.5		2.1	57	3	20	50°	12	20	2,160	4,020
80		100		74		2.6	76.5	3	25	50°			3,820	7,940
90	0	110		85		3.15	86.5	3	30	50°	17	25	4,700	10,000
120	-22	140		105.5		4.15	116	3	40	50°			7,350	16,000
150	0	175	0	125.5	-400	4.15	145	3	50	50°	20	30	14,100	34,800
180	-25	200	-400	158.6		4.15	175	3	85	80°			16,400	40,000
210	-29	240		170.6		5.15	204	3	105	80°	25	40	21,100	54,300

国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

直线轴承系列
Linear Motion Ball Bearing Series

LME...UU 尼龙保持架
该类型尺寸是公制的，广泛用于欧洲。

LME...UU (Resin retainer)
This type is a metric dimension series
generally used in Europe.



LME...UU

LME...UU-AJ

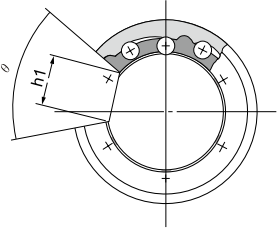
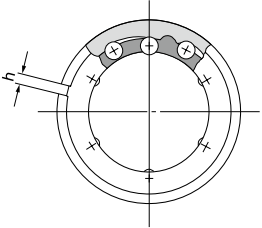
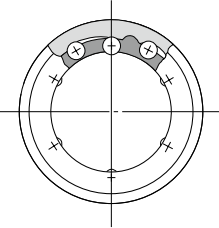
LME...UU-OP

公称轴径 Nominal shaft diameter mm	尼龙保持架 Resin retainer										dr	
	标准型 LM…UU	钢球列数 Ball circuit	重量 Weight (g)	间隙调整型 LM…UU-AJ	钢球列数 Ball circuit	重量 Weight (g)	开口型 LM…UU-OP	钢球列数 Ball circuit	重量 Weight (g)		公差 Tolerance μ m	
											精密 Precision	普通 High
3	LME3	4	1.35	—	—	—	—	—	—	3	—	+8 0
4	LME4	4	1.9	—	—	—	—	—	—	4		
5	LME5UU	4	11	LME5UU-AJ	4	10	—	—	—	5		
8	LME8UU	4	20	LME8UU-AJ	4	19.5	—	—	—	8		
10	LME10UU	4	29.5	LME10UU-AJ	4	29	LME10UU-OP	3	23	10		
12	LME12UU	4	41	LME12UU-AJ	4	40	LME12UU-OP	3	32	12	—	+9 -1
16	LME16UU	5	57	LME16UU-AJ	5	56	LME16UU-OP	4	44	16		
20	LME20UU	5	91	LME20UU-AJ	5	90	LME20UU-OP	4	75	20		
25	LME25UU	6	215	LME25UU-AJ	6	212	LME25UU-OP	5	181	25		
30	LME30UU	6	325	LME30UU-AJ	6	320	LME30UU-OP	5	272	30		
40	LME40UU	6	705	LME40UU-AJ	6	694	LME40UU-OP	5	600	40	—	+13 -1
50	LME50UU	6	1,130	LME50UU-AJ	6	1,110	LME50UU-OP	5	970	50		
60	LME60UU	6	2,050	LME60UU-AJ	6	2,000	LME60UU-OP	5	1,580	60		
80	LME80UU	6	5,140	LME80UU-AJ	6	5,000	LME80UU-OP	5	4,380	80		

密封型 Seal type: LME20 UU	不标	不带密封	No entry	No seals
	U	单密封	U	Seal on one side
	UU	双密封	UU	Seal on both sides

注：小尺寸（3和4mm内径）无密封。
Note: Smaller sizes (3 and 4mm I.D.) are non-seal type only.

直线轴承系列
Linear Motion Ball Bearing Series



LME...UU

LME...UU-AJ

LME...UU-OP

主要尺寸和公差 Major dimensions and tolerance											偏心 Eccentricity μ m	最大 径向间隙 Radial clearance (Max) μ m	额定负荷 Basic load rating	
D		L		B		W	D ₁	h	h ₁	Θ			动负荷 Dynamic C N	静负荷 Static Co N
mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m									
7	0 -8	10	0 -120	—	—	—	—	—	—	—	10	-3	69	105
8		12	—	—	—	—	—	—	—	88			127	
12		22	0 -200	14.5	0 -200	1.1	11.5	1	—	—			206	265
16		25		16.5		1.1	15.2	1	—	—			265	402
19	29	22		1.3		18	1	6.8	80°	12	-4	372	549	
22	32	22.9		1.3		21	1.5	7.5	78°			510	784	
26	36	24.9		1.3		24.9	1.5	10	78°			578	892	
32	0 -11	45		31.5		1.6	30.3	2	10	60°	15	-6	862	1,370
40		58	0 -300	44.1	0 -300	1.85	37.5	2	12.5	60°			980	1,570
47		68		52.1		1.85	44.5	2	12.5	50°			1,570	2,740
62		80		60.6		2.15	59	3	16.8	50°			17	-8
75	100	77.6		2.65		72	3	21	50°	3,820	7,940			
90	0 -15	125	0 -400	101.7	0 -400	3.15	86.5	3	27.2	54°	20	-13	4,700	9,800
120	0 -19	165		133.7		4.15	116	3	36.3	54°	25		-20	7,350

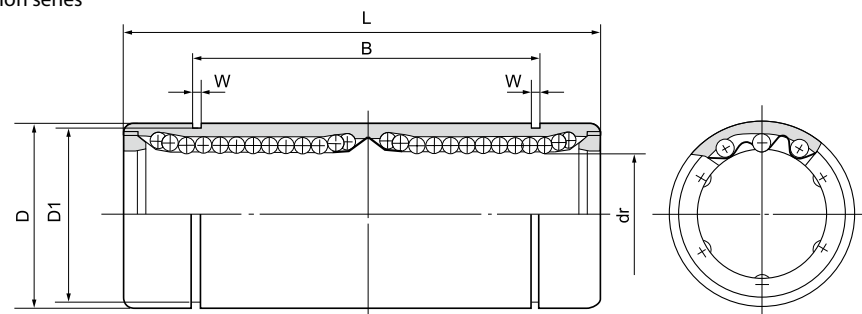
国际单位: 1N=0.102kg
SIUNIT: 1N=0.102kg

直线轴承系列

Linear Motion Ball Bearing Series

LM...LUU 尼龙保持架
该类型尺寸是公制的，广泛用于亚洲和其它国家。

LM...LUU (Resin retainer)
This type is a metric dimension series
widely used in Asia and
other countries.



LM...LUU

公称轴径 Nominal shaft diameter mm	标准型 LM···LUU	钢球 列数 Ball circuit	主要尺寸和公差 Major dimensions and tolerance										偏心 Eccentricity μ m	额定负荷 Basic load arting		重量 Weight (g)
			dr		D		L		B		W mm	D ₁ mm		动负荷 Dynamic CN	静负荷 Static Co N	
			mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m						
4	LM4L	4	4	0 -9	8	0 -11	23	0 -200	—	—	—	—	12	106	254	4
5	LM5LUU	4	5		10		28		20.4	0 -200	1.1	9.6		261	412	8.4
6	LM6LUU	4	6	0 -10	12	0 -13	35	0 -300	27	0 -300	1.1	11.5	15	323	530	16
8	LM8LUU	4	8		15	45	35		1.1		14.3	431		784	31	
10	LM10LUU	4	10		19	55	44		1.3		18	588		1,100	62	
12	LM12LUU	4	12		21	57	46		1.3		20	813		1,570	80	
13	LM13LUU	4	13		23	61	46		1.3		22	813		1,570	90	
16	LM16LUU	5	16		28		70		53		1.6	27		1,230	2,350	145
20	LM20LUU	5	20	0 -12	32	0 -19	80		61		1.6	30.5	20	1,400	2,740	180
25	LM25LUU	6	25		40		112		82		1.85	38		1,560	3,140	440
30	LM30LUU	6	30		45		123		89		1.85	43		2,490	5,490	480
35	LM35LUU	6	35	0 -15	52	0 -22	135	0 -400	99	0 -400	2.1	49	25	2,650	6,270	795
40	LM40LUU	6	40		60		151		121		2.1	57		3,430	8,040	1,170
50	LM50LUU	6	50		80		192		148		2.6	76.5		6,080	15,900	3,100
60	LM60LUU	6	60		0 -20		90		0 -25		209			170		3.15

密封型 Seal type:

LM20 LUU	不标	不带密封	No entry	No seals
	UU	双密封	UU	Seal on both sides

国际单位: 1N=0.102kg

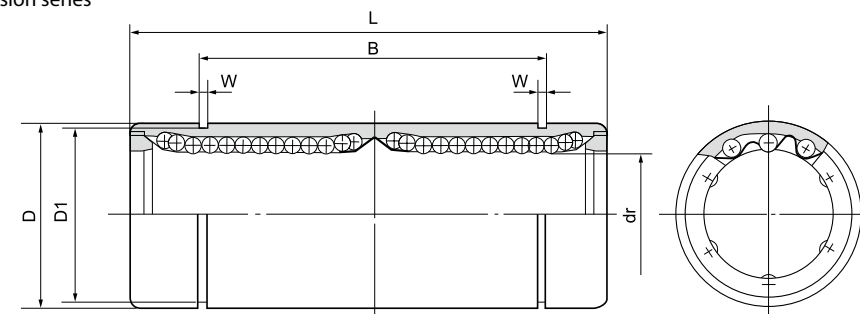
SIUNIT: 1N=0.102kg

直线轴承系列

Linear Motion Ball Bearing Series

LME...LUU 尼龙保持架
该类型尺寸是公制的，广泛用于欧洲。

LME...LUU (Resin retainer)
This type is a metric dimension series
generally used in Europe.



LME...LUU

公称轴径 Nominal shaft diameter mm	标准型 LME...LUU	钢球 列数 Ball circuit	主要尺寸和公差 Major dimensions and tolerance									偏心 Eccentricity μ m	额定负荷 Basic load arting		重量 Weigh (g)	
			dr		D		L		B		W		D _i	动负荷 Dynamic C N		静负荷 Static Co N
			mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm		mm			
8	LME6LUU	4	8	+9 -1	16	0 -9	46	0 -300	33	0 -300	1.1	15.2	15	421	804	40
12	LME12LUU	4	12		22	0 -11	61		45.8		1.3	21		813	1,570	80
16	LME16LUU	5	16	+11 -1	26		68		49.8		1.3	24.9		921	1,780	115
20	LME20LUU	5	20		32		80	61	1.6	30.5	1,370	2,740	180			
25	LME25LUU	6	25	+13 -2	40	0 -13	112	82	1.85	38	17	1,570	3,140	430		
30	LME30LUU	6	30		47		123	104.2	1.85	44.5	2,500	5,490	615			
40	LME40LUU	6	40	+16 -4	62	0 -15	151	0 -400	121.2	0 -400	2.15	59	20	3,430	8,040	1,400
50	LME50LUU	6	50		75		192	155.2	2.65	72	6,080	15,900		2,320		
60	LME60LUU	6	60		90	0 -20	209		170		3.15	86.5	25	7,550	20,000	3,920

密封型 Seal type:

LME20 LUU	不标	不带密封	No entry	No seals
	UU	双密封	UU	Seal on both sides

国际单位: 1N=0.102kg

SIUNIT: 1N=0.102kg

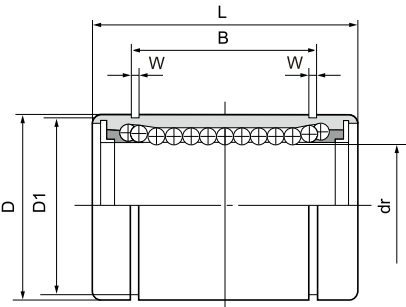
直线轴承系列
Linear Motion Ball Bearing Series

LMB...UU 尼龙保持架
该类型尺寸是英制的，主要是美洲采用。

LMB...UU (Resin retainer)
This type is an inch dimension series
mainly used in the America.



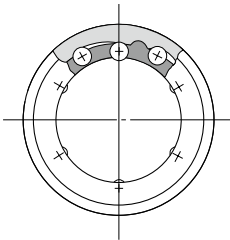
LMB...UU LMB...UU-AJ LMB...UU-OP



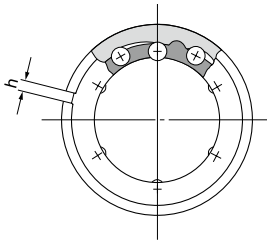
公称轴径 Nominal shaft diameter Inch/mm	尼龙保持架 Resin retainer									Inch mm	dr	
	标准型 LMB...UU	钢球列数 Ball circuit	重量 Weight (g)	间隙调整型 LMB...UU-AJ	钢球列数 Ball circuit	重量 Weight (g)	开口型 LMB...UU-OP	钢球列数 Ball circuit	重量 Weight (g)		公差 Tolerance Inch/μm	
											精密 Precision	普通 High
1/4 6.350	LMB4	4	8.0	LMB4-AJ	4	7.5	—	—	—	.2500 6.350	0 -0.0025 0 -6	0 -0.0040 0 -9
3/8 9.525	LMB6UU	4	14	LMB6UU-AJ	4	13.5	—	—	—	.3750 9.525		
1/2 12.700	LMB8UU	4	37	LMB8UU-AJ	4	36.5	LMB8UU-OP	3	28	.5000 12.700		
5/8 15.875	LMB10UU	4	76	LMB10UU-AJ	4	74	LMB10UU-OP	3	57	.6250 15.875	0 -0.0030 0 -7	0 -0.0040 0 -10
3/4 19.050	LMB12UU	5	95	LMB12UU-AJ	5	93	LMB12UU-OP	4	76	.7500 19.050		
1 25.400	LMB16UU	6	200	LMB16UU-AJ	6	198	LMB16UU-OP	5	170	1.0000 25.400		
1-1/4 31.750	LMB20UU	6	440	LMB20UU-AJ	6	430	LMB20UU-OP	5	370	1.2500 31.750	0 -0.0035 -8	0 -0.0050 0 -12
1-1/2 38.100	LMB24UU	6	670	LMB24UU-AJ	6	660	LMB24UU-OP	5	570	1.5000 38.100		
2 50.800	LMB32UU	6	1,140	LMB32UU-AJ	6	1,120	LMB32UU-OP	5	980	2.0000 50.800		

密封型 Seal type: LMB20 UU	不标	不带密封	No entry	No seals
	U	单密封	U	Seal on one side
	UU	双密封	UU	Seal on both sides

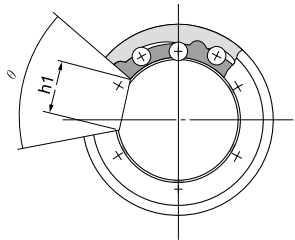
直线轴承系列
Linear Motion Ball Bearing Series



LMB...UU



LMB...UU-AJ



LMB...UU-OP

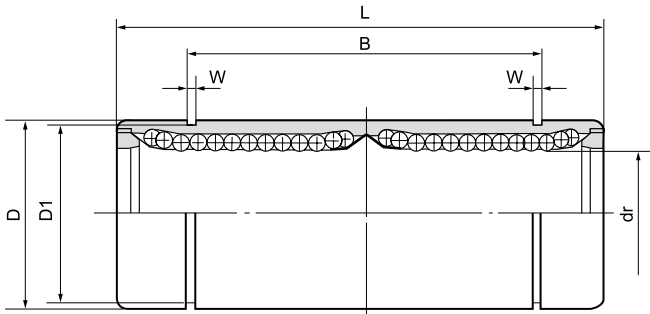
主要尺寸和公差 Major dimensions and tolerance											偏心 Eccentricity Inch/μ m		最大 径向间隙 Radial clearance (Max) Inch/μ m	额定负荷 Basic load arting	
D		L		B		W	D ₁	h	h ₁	Θ	精密 Precision	普通 High		动负荷 Dynamic C N	静负荷 Static Co N
Inch mm	公差 Tolerance Inch/μ m	Inch mm	公差 Tolerance Inch/μ m	Inch mm	公差 Tolerance Inch/μ m										
.5000 12.700	$\begin{smallmatrix} 0 \\ -0.00045 \\ -11 \end{smallmatrix}$.7500 19.050		.5110 12.98		.0390 0.992	.4687 11.906	.04 1	—	—				206	265
.6250 15.875	$\begin{smallmatrix} 0 \\ -0.00050 \\ -13 \end{smallmatrix}$.8750 22.225	0 -0.008	.6358 16.15	0 -0.008	.0390 0.992	.5880 14.935	.04 1	—	—	.0003 8	.0005 12	-0.0001 -3	225	314
.8750 22.225	$\begin{smallmatrix} 0 \\ -0.00050 \\ -13 \end{smallmatrix}$	1.2500 31.750		.9625 24.46		.0459 1.168	.8209 20.853	.06 1.5	.34 7.9375	80°			-0.0001 -4	510	784
1.1250 28.575		1.5000 38.100	0 -200	1.1039 28.04	0 -200	.0559 1.422	1.0590 26.899	.06 1.5	.375 9.525	80°				774	1180
1.2500 31.750	$\begin{smallmatrix} 0 \\ -0.00065 \\ -16 \end{smallmatrix}$	1.6250 41.275		1.1657 29.61		.0559 1.422	1.1760 29.870	.06 1.5	.4375 11.1125	60°	.0004 10	.0006 15	-0.0002 -6	862	1370
1.5625 39.688	$\begin{smallmatrix} 0 \\ -0.00065 \\ -16 \end{smallmatrix}$	2.2500 57.150		1.7547 44.57		.0679 1.727	1.4687 37.306	.06 1.5	.5625 14.2875	50°				980	1570
2.0000 50.800	$\begin{smallmatrix} 0 \\ -0.00075 \\ -19 \end{smallmatrix}$	2.6250 66.675	0 -0.012	2.0047 50.92	0 -0.012	.0679 1.727	1.8859 47.904	.10 2.5	.625 15.875	50°	.0005 12	.0008 20	-0.0003 -8	1,570	2,740
2.3750 60.325	$\begin{smallmatrix} 0 \\ -0.00075 \\ -19 \end{smallmatrix}$	3.0000 76.200	0 -300	2.4118 61.26	0 -300	.0859 2.184	2.2389 56.870	.12 3	.75 19.05	50°				2,180	4,020
3.0000 76.200	$\begin{smallmatrix} 0 \\ -0.00090 \\ -22 \end{smallmatrix}$	4.0000 101.600		3.1917 81.07		.1029 2.616	2.8379 72.085	.12 3	1.0 25.40	50°	.0007 17	.0010 25	-0.0005 -13	3,820	7,940

国际单位: 1N≈0.225lbs
1kg≈2.205lbs
SIUNIT: 1N≈0.225lbs
1kg≈2.205lbs

直线轴承系列
Linear Motion Ball Bearing Series

LMB...LUU 尼龙保持架
该类型尺寸是英制的，主要是美洲采用。

LMB...LUU (Resin retainer)
This type is an inch dimension series
mainly used in the America.



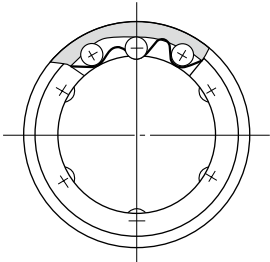
LMB...LUU

公称轴径 Nominal shaft diameter Inch/mm	加长型 LUB...LUU	重量 Weight (g)	钢球列数 Ball circuit	主要尺寸和公差 Major dimensions and tolerance	
				dr	
				Inch mm	公差 Tolerance Inch/ μ m
1/4 6.350	LMB4L	17.5	4	.2500 6.350	0 -.00040
3/8 9.525	LMB6LUU	28	4	.3750 9.525	
1/2 12.700	LMB8LUU	80	4	.5000 12.700	
5/8 15.875	LMB10LUU	160	4	.6250 15.875	
3/4 19.050	LMB12LUU	195	5	.7500 19.050	0 -.00050
1 25.400	LMB16LUU	410	6	1.0000 25.400	0 -12
1-1/4 31.750	LMB20LUU	820	6	1.2500 31.750	0 -.00060 -15
1-1/2 38.100	LMB24LUU	1250	6	1.5000 38.100	
2 50.800	LMB32LUU	1350	6	2.0000 50.800	

密封型 Seal type:
LMB20 LUU

不标	不带密封	No entry	No seals
U	单密封	U	Seal on one side
UU	双密封	UU	Seal on both sides

直线轴承系列
Linear Motion Ball Bearing Series



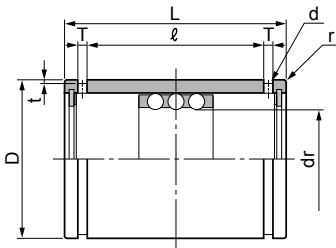
LMB...LUU

主要尺寸和公差 Major dimensions and tolerance								偏心 Eccentricity Inch/μ m	额定负荷 Basic load arting	
D		L		B		W	D _i		动负荷 Dynamic C N	静负荷 Static Co N
Inch mm	公差 Tolerance Inch/μ m	Inch mm	公差 Tolerance Inch/μ m	Inch mm	公差 Tolerance Inch/μ m					
.5000 12.700	0 -.00050 -13	1.3750 34.925	0 -.012	1.0220 25.959	0 -.012	.0390 0.992	.4687 11.906	.0006 15	323	530
.6250 15.875	0 -.00065 -16	1.5938 40.481		1.2716 32.298		.0390 0.992	.5880 14.935		353	630
.8750 22.225	0 -.00065 -16	2.3750 60.325		1.9250 48.895		.0459 1.168	.8209 20.853		813	1,570
1.1250 28.575	0 -.00065 -16	2.8125 71.438		2.2079 56.080		.0559 1.422	1.0590 26.899		1,230	2,350
1.2500 31.750	0 -.00075 -19	3.0937 78.581	0 -.016	2.3314 59.218	0 -.016	.0559 1.422	1.1760 29.870	.0008 20	1,370	2,740
1.5625 39.688	0 -.00075 -19	4.2831 108.744		3.5049 89.139		.0679 1.727	1.4687 37.306		1,570	3,140
2.0000 50.800	0 -.00090 -22	5.0000 127.000		4.0094 101.839		.0679 1.727	1.8859 47.904		2,500	5,490
2.3750 60.325	0 -.00090 -22	5.6875 144.463		4.8236 122.519		.0859 2.184	2.2389 56.870		3,430	8,040
3.0000 76.200	0 -.00100 -25	7.7500 196.850	0 -400	6.3834 162.138	0 -400	.1029 2.616	2.8379 72.085	.0012 30	6,080	15,900

国际单位: 1N≈0.225lbs
1kg≈2.205lbs
SIUNIT: 1N≈0.225lbs
1kg≈2.205lbs

直线轴承系列
Linear Motion Ball Bearing Series

行程轴承: ST
Ordinary type: ST



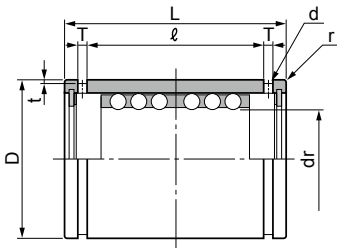
ST

型号 Model	最大行程 Maximum stroke mm	钢球列数 Number of rows	主要尺寸公差 Major dimensions and tolerance											额定符合 Basic load rating		重量 Weight (g)
			dr		D		L		ℓ	T	t	d	r	Dynamic C N	Static Co N	
			mm	公差 tolerance µm	mm	公差 tolerance µm	mm	公差 tolerance µm								
ST 6	20	3	6	+22 +13	12	0 -11	20	0 -200	11.3	1.1	0.5	1	0.5	216	147	8.9
ST 8	24	3	8		15	24	17.1		1.5	0.5	1.2	0.5	343	245	15.6	
ST 10	30	3	10		19	30	22.7		1.5	0.5	1.2	0.5	637	461	28.8	
ST 12	32	3	12	+27 +16	23	0 -13	32		24.5	1.5	0.5	1.2	0.5	1,070	813	42
ST 16	40	3	16		28	37	29.1		1.5	0.7	1.3	0.5	1,180	990	71	
ST 20	50	3	20		32	45	35.8		2	0.7	1.5	0.5	1,260	1,170	99	
ST 25	50	3	25	+33 +20	37	0 -16	45	0 -300	35.8	2	0.7	1.6	1	1,330	1,330	117
ST 30	82	3	30		45	65	53.5		2.5	1	2	1	2,990	3,140	205	
ST 35	92	3	35		52	70	58.5		2.5	1	2	1.5	3,140	3,530	329	
ST 40	108	3	40	+41 +25	60	0 -19	80		68.3	2.5	1	2	1.5	4,120	4,800	516
ST 50	138	3	50		72	100	86.4		3	1	2.5	1.5	5,540	6,910	827	
ST 60	138	3	60		85	0 -22	100		86.4	3	1	2.5	2	5,980	8,230	1,240
ST 80	132	3	80	+49 +30	110		100	0	86	3	1.5	2.5	2	7,840	12,200	2,050
ST100	132	3	100		+58/+36	130	0/-25		100	86	3	1.5	2.5	2	8,430	14,700

1N≈0.102kg

直线轴承系列
Linear Motion Ball Bearing Series

重负荷型: ST···B
Heavy duty type: ST···B




ST···B

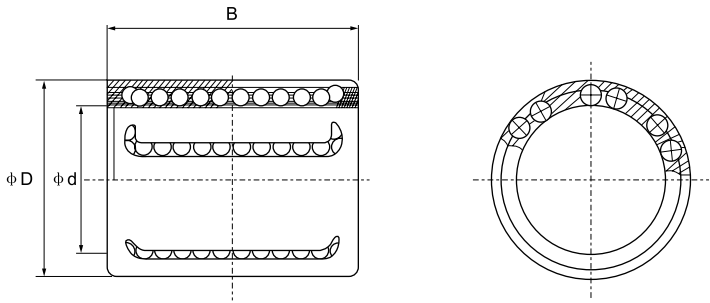
型号 Model	最大行程 Maximum stroke mm	钢球列数 Number of rows	主要尺寸公差 Major dimensions and tolerance											额定符合 Basic load rating		重量 Weight (g)
			dr		D		L		ℓ	T	t	d	r	Dynamic CN	Static Co N	
			mm	公差 tolerance μm	mm	公差 tolerance μm	mm	公差 tolerance μm								
ST 8B	8	6	8	+22 +13	15	0/-11	24	0 -200	17.1	1.5	0.5	1.2	0.5	549	490	16.8
ST 10B	8	6	10		19	0 -13	30		22.7	1.5	0.5	1.2	0.5	1,030	931	31.2
ST 12B	8	6	12		23		32		24.5	1.5	0.5	1.2	0.5	1,720	1,630	46
ST 16B	16	6	16	+27 +16	28	0 -16	37	0 -300	29.1	1.5	0.7	1.3	0.5	1,910	1,980	75
ST 20B	20	6	20		32		45		35.8	2	0.7	1.5	0.5	2,060	2,320	106
ST 25B	20	6	25		37		45		35.8	2	0.7	1.6	1	2,170	2,670	125
ST 30B	44	6	30	+33 +20	45	0 -19	65	0 -400	53.5	2.5	1	2	1	4,800	6,270	220
ST 35B	54	6	35		52		70		58.5	2.5	1	2	1.5	5,050	7,060	346
ST 40B	66	6	40		60		80		68.3	2.5	1	2	1.5	6,710	9,560	540
ST 50B	88	6	50	+41 +25	72	0 -22	100	86.4	3	1	2.5	1.5	8,970	13,800	862	
ST 60B	88	6	60		85		100	86.4	3	1	2.5	2	9,700	16,500	1,290	
ST 80B	76	6	80		110		100	86	3	1.5	2.5	2	12,700	24,300	2,110	
ST100B	76	6	100	+58/+36	130	0/-25	100	86	3	1.5	2.5	2	13,700	29,400	2,520	

1N≈0.102kg

直线轴承系列

Linear Motion Ball Bearing Series





KH...

型号 Model	主要尺寸 Major dimensions (mm)			额定负荷 Basic load rating		重量 Weight (g)
	Φd	ΦD	B	动负荷 Dynamic Co N	静负荷 Static Co N	
KH0622PP	6	12	22	400	239	7
KH0824PP	8	15	24	435	280	12
KH1026PP	10	17	26	500	370	14.5
KH1228PP	12	19	28	620	510	18.5
KH1428PP	14	21	28	620	520	20.5
KH1630PP	16	24	30	800	620	27.5
KH2030PP	20	28	30	950	790	32.5
KH2540PP	25	35	40	1,990	1,670	66
KH3050PP	30	40	50	2,800	2,700	95
KH4060PP	40	52	60	4,400	4,450	182
KH5070PP	50	62	70	5,500	6,300	252

型号表示法

Type number format

不标	不带密封	No entry	No seals
P	单密封	P	Seal on one side
PP	双密封	PP	Seal on both sides

法兰式直线轴承

Flanged Linear Motion Ball Bearing

- ACME法兰型直线轴承外圆上有一个垂直的安装平台，故安装时不需轴承座，从而大大地降低了成本。
- 法兰型直线轴承具有足够的刚性，它能承受标准型直线轴承所能承受的同等负荷。法兰盘经过精密加工，与轴承外径的垂直精度很高，具有良好的互换性，维修更换十分方便。
- The ACME flanged linear motion ball bearing is equipped with a perpendicular mounting surface as part of the outer casing. Therefore it does not require a housing thus providing high cost efficiency.
- Flanged linear motion ball bearings have sufficient rigidity to support equivalent loads of standard ball bushings. Incorporated in this design is a finely machined flange and outer diameter with exact perpendicularity, and excellent flange interchangeability to simplify replacement.

结构和优点

Structure and Features

- 这种结构提供了一种不同的安装方法，它不需要轴承支架，也不需要将轴承压入到轴承座中。
- ACME法兰型直线轴承有标准型的，也有加长型的，有法兰盘在端部的，也有法兰盘在中间的，法兰盘在中间的可以更好地承受力矩负荷。
- 不需要单独的轴承座
- 结构紧凑
- 足够的刚性
- 更换时仍能保持高精度
- This design enables various mounting methods other than conventional pillow blocks and press fit ball bushings.
- ACME flanged linear motion ball bearings include single retainer and mounted flange as well as double retainer end mount and certain mounted flange type with excellent moment load capability
- No housing required
- Compact design
- Excellent rigidity
- High accuracy upon replacement

法兰式直线轴承的代号

Flanged Linear Motion Ball Bearings Type Number Format

类型 Type		LM	F	25	L	UU
LM	公制，亚洲应用广泛 Metric dimension series most widely used in Asia					
LME	公制，主要是欧洲使用 Metric dimension series generally used in Europe					
LMB	英制，主要是美洲使用 Inch dimension series used mainly in America					

法兰型 Flange shape	
符号 Symbol	代表意义 Specification
F	圆法兰 Round flange
K	方法兰 Square flange
FM	中间圆法兰 Centered round flange
KM	中间方法兰 Centered square flange
H	椭圆法兰 Two side cut flange
HM	中间椭圆法兰 Two side cut centered flange
FP	导向圆法兰 Pilot type
KP	导向方法兰 Pilot square flange
HP	导向椭圆法兰 Pilot two side cut flange

密封 Seal	
符号 Symbol	代表意义 Specification
不标 No entry	不带密封 No seal
UU	双密封 Seals on both sides

加长型 Double type

公称轴径
Nominal Shaft Diameter

法兰式直线轴承的分类(1)

Classifications of Flanged Linear Motion Ball Bearing No.(1)

结构 Design	安装实例 Mounting example	法兰类型 Flange type	长度 Length	所在页码 Dimension table page		
				LM series	LME series	LMB series
标准法兰型 Standned Flanged type		LMF LMEF LMBF	Single			
		LMK LMEK LMBK	Single			
		LMH	Single			

法兰式直线轴承的分类(2)

Classifications of Flanged Linear Motion Ball Bearing No.(2)

结构 Structure	安装实例 Mounting example	法兰类型 Flange type	长度 Length	所在页码 Dimension table page		
				LM series	LME series	LMB series
导向法兰型 Pilot Flanged type		LMFP	Single			
		LMKP	Single			
		LMHP	Single			
加长法兰型 Double-Wide Flanged type		LMF...L LMEF...L LMBF...L	Double			
		LMK...L LMEK...L LMBK...L	Double			
		LMH...L LMEH...L	Double			
		LMFP...L	Double			
		LMKP...L	Double			
		LMHP...L	Double			
加长中间法兰型 Double-Wide-Middle Flanged type		LMFM...L LMEFM...L LMBFM...L	Double			
		LMKM...L LMEKM...L LMBKM...L	Double			
		LMHM...L	Double			

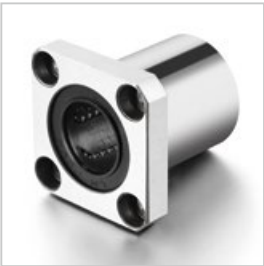
法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

LMF(K)···UU尼龙保持架
该类型尺寸是公制的，广泛应用于亚洲和其他国家。

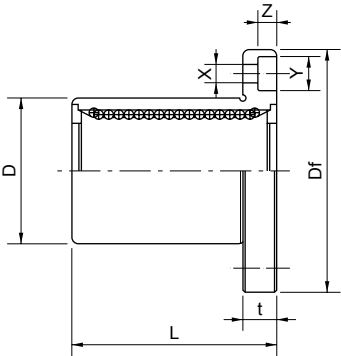
LMF(K)···UU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other
countries.



LMF···UU

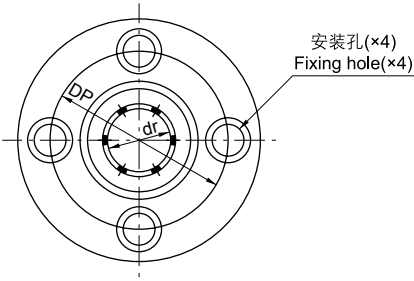


LMK···UU

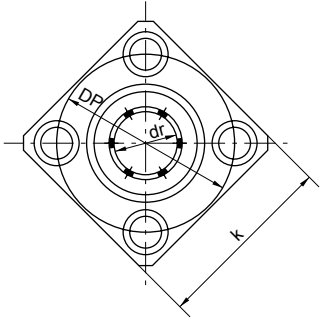


公称轴径 Nominal shaft diameter mm	尼龙保持架 Resin retainer				主要尺寸和公差 Major dimensions and tolerance					
	圆法兰 LMF···UU	重量 Weight (g)	方法兰 LMK···UU	重量 Weight (g)	dr		D		L	
					mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
6	LMF6UU	24	LMF6UU	18	6		12		19	±300
8	LMF8SUU	32	LMF8SUU	24	8		15	0 -11	17	
8	LMF8UU	37	LMF8UU	29	8		15		24	
10	LMF10UU	72	LMF10UU	52	10	0 -9	19		29	0 -200
12	LMF12UU	76	LMF12UU	57	12		21	0 -13	30	
13	LMF13UU	88	LMF13UU	72	13		23		32	
16	LMF16UU	120	LMF16UU	104	16		28		37	
20	LMF20UU	180	LMF20UU	145	20		32		42	0 -300
25	LMF25UU	340	LMF25UU	300	25	0 -10	40	0 -16	59	
30	LMF30UU	470	LMF30UU	375	30		45		64	
35	LMF35UU	650	LMF35UU	560	35		52		70	
40	LMF40UU	1,060	LMF40UU	880	40	0 -12	60	0 -19	80	
50	LMF50UU	2,200	LMF50UU	2,000	50		80		100	0 -400
60	LMF60UU	3,000	LMF60UU	2,560	60		90	0 -22	110	
80	LMF80UU	5,800	LMF80UU	5,300	80	0 -15	120		140	
100	LMF100UU	10,600	LMF100UU	9,900	100	0 -20	150	0 -25	175	0 -400

密封型 Seal type:				
LMF20 UU	不标	不带密封	No entry	No seals
	UU	双密封	UU	Seal on both sides



LMF···UU



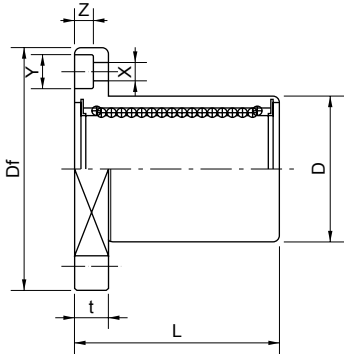
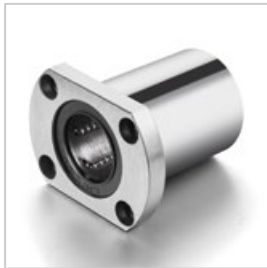
LMK···UU

主要尺寸和公差 Major dimensions and tolerance							偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange									动负荷 Dynamic C N	静负荷 Static Co N
Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm				
28	22	5	20	3.5	6	3.1	12	12	206	265
32	25	5	24	3.5	6	3.1			176	216
32	25	5	24	3.5	6	3.1			274	392
40	30	6	29	4,5	7.5	4.1			372	549
42	32	6	32	4,5	7.5	4.1			510	784
43	34	6	33	4,5	7.5	4.1			510	784
48	37	6	38	4,5	7.5	4.1	15	15	774	1,180
54	42	8	43	5.5	9	5.1			882	1,370
62	50	8	51	5.5	9	5.1			980	1,570
74	58	10	60	6.6	11	6.1			1,570	2,740
82	64	10	67	6.6	11	6.1	20	20	1,670	3,140
96	75	13	78	9	14	8.1			2,160	4,020
116	92	13	98	9	14	8.1			3,820	7,940
134	106	18	112	11	17	11.1	25	25	4,700	10,000
164	136	18	142	11	17	11.1			7,350	16,000
200	170	20	175	14	20	13.1			14,100	34,800

国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

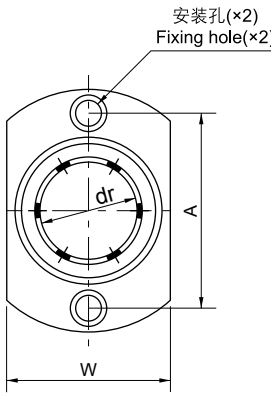
LMH...UU尼龙保持架
该类型尺寸是公制的，广泛应用于亚洲和其他国家。
LMH...UU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other
countries.



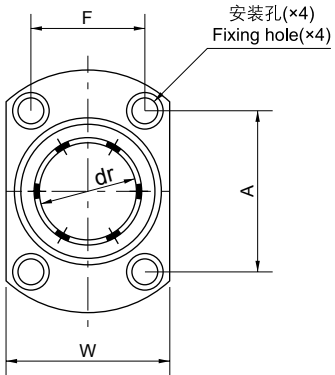
LMH...UU

公称轴径 Nominal shaft diameter mm	椭圆法兰 LMH...UU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
			dr		D		L	
			mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
6	LMH6UU	21	6	0 -9	12	0 -11	19	±300
8	LMH8UU	33	8		15	0 -13	24	
10	LMH10UU	64	10		19		29	
12	LMH12UU	68	12		21		30	
13	LMH13UU	81	13	0 -10	23	0 -16	32	0 -200
16	LMH16UU	112	16		28		37	
20	LMH20UU	167	20		32		42	
25	LMH25UU	325	25		40		59	
30	LMH30UU	388	30	0 -12	45	0 -19	64	0 -300
35	LMH35UU	580	35		52		70	
40	LMH40UU	920	40		60		80	

注：所有LMH型均为双密封。
Note: All sizes of LMH type are sealed on both sides.



轴径小于或等于13mm
LMH13 or Less



轴径大于或等于16mm
LMH16 or More

主要尺寸和公差 Major dimensions and tolerance								偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange										动负荷 Dynamic C N	静负荷 Static Co N
Df mm	W mm	t mm	A mm	F mm	X mm	Y mm	Z mm				
28	18	5	20	-	3.5	6	3.1	12	12	206	265
32	21	5	24	-	3.5	6	3.1			274	392
40	25	6	29	-	4.5	7.5	4.1			372	549
42	27	6	32	-	4.5	7.5	4.1			510	784
43	29	6	33	-	4.5	7.5	4.1			510	784
48	34	6	31	22	4.5	7.5	4.1			774	1,180
54	38	8	36	24	5.5	9	5.1	15	15	882	1,370
62	46	8	40	32	5.5	9	5.1			980	1,570
74	51	10	49	35	6.6	11	6.1			1,570	2,740
82	60	10	55	38	6.6	11	6.1	20	20	1,670	3,140
96	70	13	64	45	9	14	8.1			2,160	4,020

国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

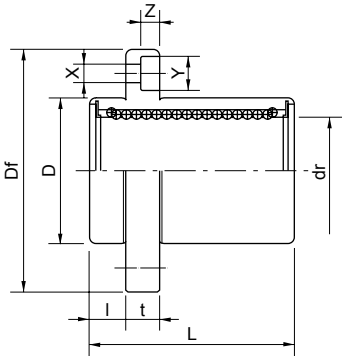
LMF(K)P...UU尼龙保持架
该类型尺寸是公制的，广泛应用于亚洲和其他国家。
LMF(K)P...UU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other
countries.



LMFP...UU

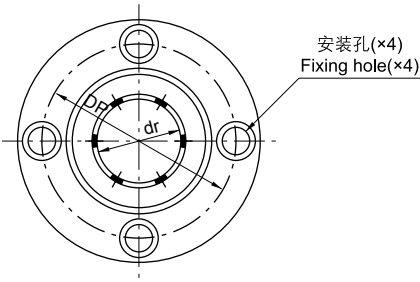


LMKP...UU

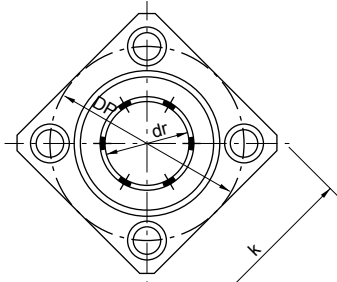


公称轴径 Nominal shaft diameter mm	导向圆法兰 LMFP...UU	重量 Weight (g)	导向方法兰 LMKP...UU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
					dr		D		L	
					mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
6	LMFP6UU	24	LMKP6UU	18	6	0 -9	12	0 -13	19	±300
8	LMFP8UU	37	LMKP8UU	29	8		15		24	
10	LMFP10UU	72	LMKP10UU	52	10		19		29	
12	LMFP12UU	76	LMKP12UU	57	12		21		30	
13	LMFP13UU	88	LMKP13UU	72	13	0 -16	23	0 -16	32	0 -200
16	LMFP16UU	120	LMKP16UU	104	16		28		37	
20	LMFP20UU	180	LMKP20UU	145	20		32		42	
25	LMFP25UU	340	LMKP25UU	300	25		40		59	
30	LMFP30UU	470	LMKP30UU	375	30	0 -12	45	0 -22	64	0 -300
35	LMFP35UU	650	LMKP35UU	560	35		52		70	
40	LMFP40UU	1,060	LMKP40UU	880	40		60		80	
50	LMFP50UU	2,200	LMKP50UU	2,000	50		80		100	
60	LMFP60UU	3,000	LMKP60UU	2,560	60	0 -15	90	0 -25	110	

注：所有LMFP/LMKP型均为双密封。
Note: All sizes of LMFP/LMKP type are sealed on both sides.



LMFP...UU



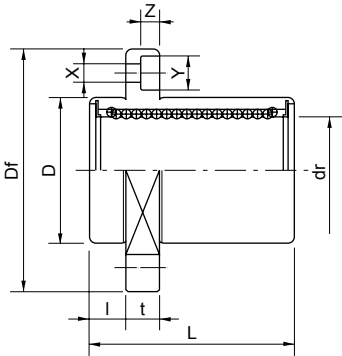
LMKP...UU

主要尺寸和公差 Major dimensions and tolerance								偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange										动负荷 Dynamic C N	静负荷 Static Co N
I mm	Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm				
5	28	22	5	20	3.5	6	3.1	12	12	206	265
5	32	25	5	24	3.5	6	3.1			274	392
6	40	30	6	29	4.5	7.5	4.1			372	549
6	42	32	6	32	4.5	7.5	4.1			510	784
6	43	34	6	33	4.5	7.5	4.1			510	784
6	48	37	6	38	4.5	7.5	4.1			774	1,180
8	54	42	8	43	5.5	9	5.1	15	15	882	1,370
8	62	50	8	51	5.5	9	5.1			980	1,570
10	74	58	10	60	6.6	11	6.1			1,570	2,740
10	82	64	10	67	6.6	11	6.1	20	20	1,670	3,140
13	96	75	13	78	9	14	8.1			2,160	4,020
13	116	92	13	98	9	14	8.1			3,820	7,940
18	134	106	18	112	11	17	11.1			25	25

国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

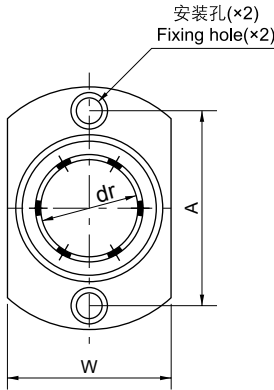
LMHP···UU尼龙保持架
该类型尺寸是公制的，广泛应用于亚洲和其他国家。
LMHP···UU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other
countries.



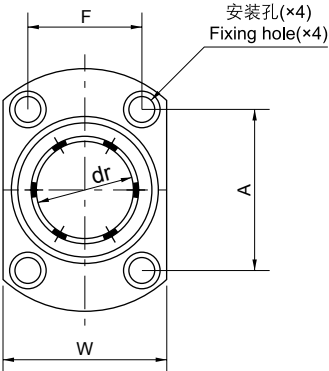
LMHP···UU

公称轴径 Nominal shaft diameter mm	导向椭圆法兰 LMHP···UU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
			dr		D		L	
			mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
6	LMHP6UU	21	6	0 -9	12	0 -13	19	±300
8	LMHP8UU	33	8		15		24	
10	LMHP10UU	64	10		19	0 -16	29	0 -200
12	LMHP12UU	68	12		21		30	
13	LMHP13UU	81	13	0 -10	23		32	
16	LMHP16UU	112	16		28	0 -19	37	
20	LMHP20UU	167	20		32		42	
25	LMHP25UU	325	25		40		59	0 -300
30	LMHP30UU	388	30		45	0 -22	64	
35	LMHP35UU	580	35	0 -12	52		70	
40	LMHP40UU	920	40		60		80	

注：所有LMHP型均为双密封。
Note: All sizes of LMHP type are sealed on both sides.



轴径小于或等于13mm
LMHP13 or Less



轴径大于或等于16mm
LMHP16 or More

主要尺寸和公差 Major dimensions and tolerance									偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange											动负荷 Dynamic C N	静负荷 Static Co N
I mm	Df mm	W mm	t mm	A mm	F mm	X mm	Y mm	Z mm				
5	28	18	5	20	-	3.5	6	3.1	12	12	206	265
5	32	21	5	24	-	3.5	6	3.1			274	392
6	40	25	6	29	-	4.5	7.5	4.1			372	549
6	42	27	6	32	-	4.5	7.5	4.1			510	784
6	43	29	6	33	-	4.5	7.5	4.1			510	784
6	48	34	6	31	22	4.5	7.5	4.1			774	1,180
8	54	38	8	36	24	5.5	9	5.1	15	15	882	1,370
8	62	46	8	40	32	5.5	9	5.1			980	1,570
10	74	51	10	49	35	6.6	11	6.1			1,570	2,740
10	82	60	10	55	38	6.6	11	6.1	20	20	1,670	3,140
13	96	70	13	64	45	9	14	8.1			2,160	4,020

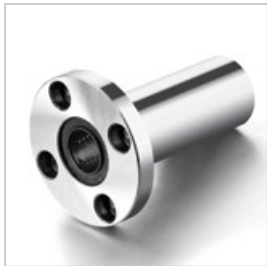
国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列

Flanged Linear Motion Ball Bearing Series

LMF(K)···LUU尼龙保持架
该类型尺寸是公制的，广泛应用于亚洲和其他国家。

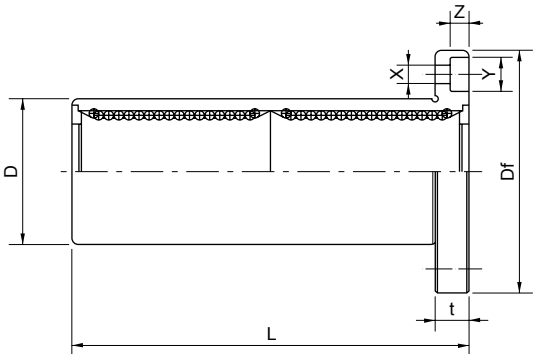
LMF(K)···LUU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other
countries.



LMF···LUU

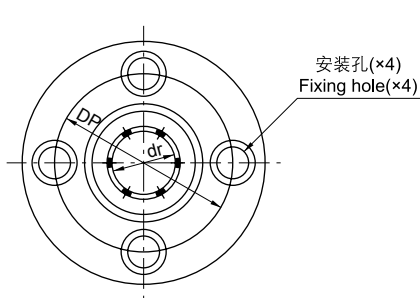


LMK···LUU

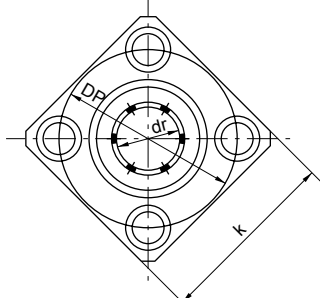


公称轴径 Nominal shaft diameter mm	加长圆法兰 LMF···LUU	重量 Weight (g)	加长方法兰 LMK···LUU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
					dr		D		L	
					mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
6	LMF6LUU	31	LMK6LUU	25	6	0 -10	12	0 -13	35	±300
8	LMF8LUU	51	LMK8LUU	43	8		15		45	
10	LMF10LUU	98	LMK10LUU	78	10		19		55	
12	LMF12LUU	110	LMK12LUU	90	12		21		57	
13	LMF13LUU	130	LMK13LUU	108	13	0 -12	23	0 -16	61	0 -300
16	LMF16LUU	190	LMK16LUU	165	16		28		70	
20	LMF20LUU	260	LMK20LUU	225	20		32		80	
25	LMF25LUU	540	LMK25LUU	500	25		40		112	
30	LMF30LUU	680	LMK30LUU	590	30	0 -15	45	0 -22	123	0 -400
35	LMF35LUU	1,020	LMK35LUU	930	35		52		135	
40	LMF40LUU	1,570	LMK40LUU	1,380	40		60		151	
50	LMF50LUU	3,600	LMK50LUU	3,400	50		80		192	
60	LMF60LUU	4,500	LMK60LUU	4,060	60	0 -20	90	0 -25	209	

密封型 Seal type:		LMF20 LUU	
不标	不带密封	No entry	No seals
UU	双密封	UU	Seal on both sides



LMF···LUU



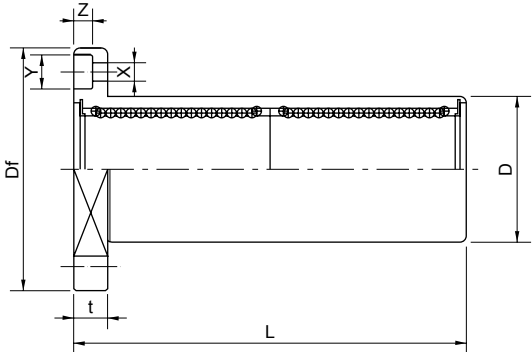
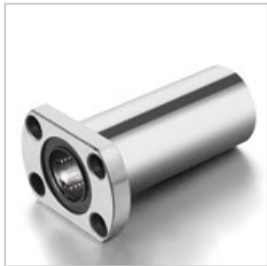
LMK···LUU

主要尺寸和公差 Major dimensions and tolerance							偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange									动负荷 Dynamic C N	静负荷 Static Co N
Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm				
28	22	5	20	3.5	6	3.1	15	15	323	529
32	25	5	24	3.5	6	3.1			431	784
40	30	6	29	4.5	7.5	4.1			588	1,100
42	32	6	32	4.5	7.5	4.1			813	1,570
43	34	6	33	4.5	7.5	4.1			813	1,570
48	37	6	38	4.5	7.5	4.1			1,230	2,350
54	42	8	43	5.5	9	5.1	20	20	1,400	2,740
62	50	8	51	5.5	9	5.1			1,560	3,140
74	58	10	60	6.6	11	6.1			2,490	5,490
82	64	10	67	6.6	11	6.1	25	25	2,650	6,270
96	75	13	78	9	14	8.1			3,430	8,040
116	92	13	98	9	14	8.1			6,080	15,900
134	106	18	112	11	17	11.1			7,550	20,000

国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

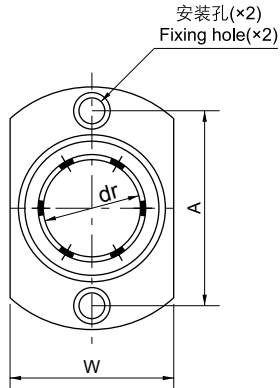
LMH...LUU尼龙保持架
该类型尺寸是公制的，广泛应用于亚洲和其他国家。
LMH...LUU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other
countries.



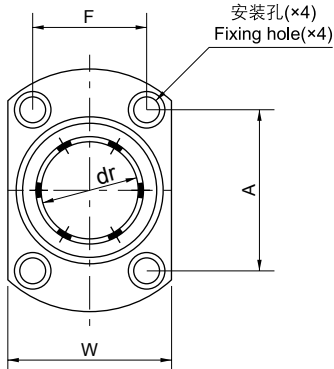
LMH...LUU

公称轴径 Nominal shaft diameter mm	加长椭圆法兰 LMH...LUU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
			dr		D		L	
			mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
6	LMH6LUU	28	6	0 -10	12	0 -13	35	±300
8	LMH8LUU	47	8		15	0 -16	45	
10	LMH10LUU	90	10		19		55	
12	LMH12LUU	102	12		21		57	
13	LMH13LUU	123	13	0 -12	23	0 -19	61	0 -300
16	LMH16LUU	182	16		28		70	
20	LMH20LUU	247	20		32		80	
25	LMH25LUU	525	25		40		112	
30	LMH30LUU	645	30	0 -15	45	0 -22	123	0 -400
35	LMH35LUU	950	35		52		135	
40	LMH40LUU	1,450	40		60		151	

注：所有LMH...L型均为双密封。
Note: All sizes of LMH...L type are sealed on both sides.



轴径小于或等于13mm
LMH13 or Less



轴径大于或等于16mm
LMH16 or More

主要尺寸和公差 Major dimensions and tolerance								偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange										动负荷 Dynamic C N	静负荷 Static Co N
Df mm	W mm	t mm	A mm	F mm	X mm	Y mm	Z mm				
28	18	5	20	-	3.5	6	3.1	15	15	323	529
32	21	5	24	-	3.5	6	3.1			431	784
40	25	6	29	-	4.5	7.5	4.1			588	1,100
42	27	6	32	-	4.5	7.5	4.1			813	1,570
43	29	6	33	-	4.5	7.5	4.1			813	1,570
48	34	6	31	22	4.5	7.5	4.1			1,230	2,350
54	38	8	36	24	5.5	9	5.1	20	20	1,400	2,740
62	46	8	40	32	5.5	9	5.1			1,560	3,140
74	51	10	49	35	6.6	11	6.1			2,490	5,490
82	60	10	55	38	6.6	11	6.1	25	25	2,650	6,270
96	70	13	64	45	9	14	8.1			3,430	8,040

国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

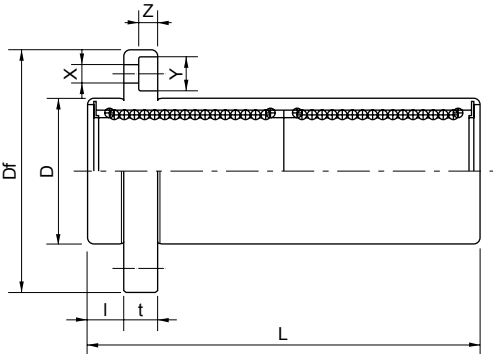
LMF(K)P...LUU尼龙保持架
该类型尺寸是公制的，广泛应用于亚洲和其他国家。
LMF(K)P...LUU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other
countries.



LMFP...LUU

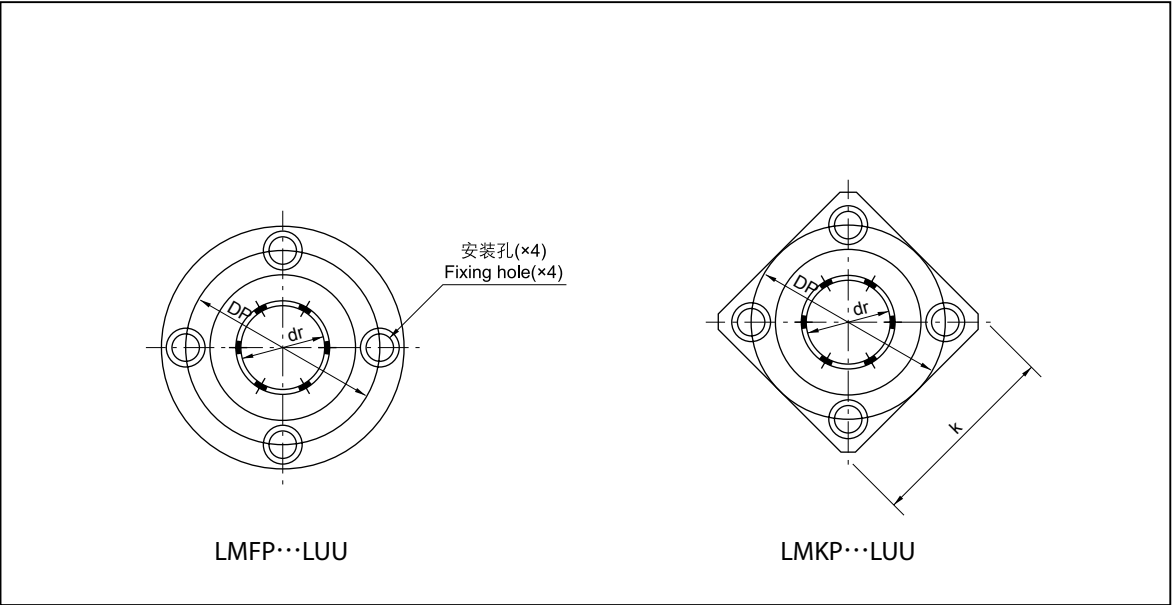


LMKP...LUU



公称轴径 Nominal shaft diameter mm	加长导向圆 法兰 LMFP...LUU	重量 Weight (g)	加长导向方 法兰 LMKP...LUU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
					dr		D		L	
					mm	公差 Tolerance μm	mm	公差 Tolerance μm	mm	公差 Tolerance μm
6	LMFP6LUU	31	LMKP6LUU	25	6	0 -10	12	0 -13	35	±300
8	LMFP8LUU	51	LMKP8LUU	43	8		15		45	
10	LMFP10LUU	98	LMKP10LUU	78	10		19		55	
12	LMFP12LUU	110	LMKP12LUU	90	12		21		57	
13	LMFP13LUU	130	LMKP13LUU	108	13	0 -12	23	0 -16	61	0 -300
16	LMFP16LUU	190	LMKP16LUU	165	16		28		70	
20	LMFP20LUU	260	LMKP20LUU	225	20		32		80	
25	LMFP25LUU	540	LMKP25LUU	500	25		40		112	
30	LMFP30LUU	680	LMKP30LUU	590	30	0 -15	45	0 -22	123	0 -400
35	LMFP35LUU	1,020	LMKP35LUU	930	35		52		135	
40	LMFP40LUU	1,570	LMKP40LUU	1,380	40		60		151	
50	LMFP50LUU	3,600	LMKP50LUU	3,400	50		80		192	
60	LMFP60LUU	4,500	LMKP60LUU	4,060	60	0 -20	90	0 -25	209	

注：所有LMFP...LUU/LMKP...LUU型均为双密封。
Note: All sizes of LMFP...LUU/LMKP...LUU type are sealed on both sides.



主要尺寸和公差 Major dimensions and tolerance								偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange										动负荷 Dynamic C N	静负荷 Static Co N
I mm	Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm				
5	28	22	5	20	3.5	6	3.1	15	15	323	529
5	32	25	5	24	3.5	6	3.1			431	781
6	40	30	6	29	4.5	7.5	4.1			588	1,100
6	42	32	6	32	4.5	7.5	4.1			813	1,570
6	43	34	6	33	4.5	7.5	4.1			813	1,570
6	48	37	6	38	4.5	7.5	4.1			1,230	2,350
8	54	42	8	43	5.5	9	5.1	20	20	1,400	2,740
8	62	50	8	51	5.5	9	5.1			1,560	3,140
10	74	58	10	60	6.6	11	6.1			2,490	5,490
10	82	64	10	67	6.6	11	6.1	25	25	2,650	6,270
13	96	75	13	78	9	14	8.1			3,430	8,040
13	116	92	13	98	9	14	8.1			6,080	15,900
18	134	106	18	112	11	17	11.1			30	30

国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

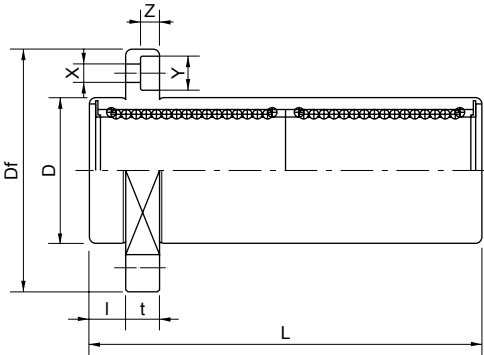
法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

LMHP...LUU尼龙保持架
该类型尺寸是公制的，广泛应用于亚洲和其他国家。

LMHP...LUU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other
countries.

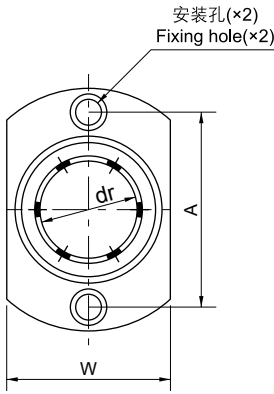


LMHP...LUU

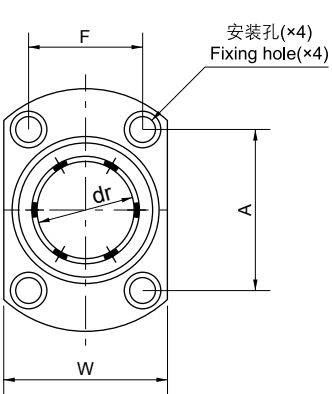


公称轴径 Nominal shaft diameter mm	加长导向椭圆 法兰 LMHP...LUU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
			dr		D		L	
			mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
6	LMHP6LUU	28	6	0 -10	12	0 -13	35	±300
8	LMHP8LUU	47	8		15		45	
10	LMHP10LUU	90	10		19	0 -16	55	0 -300
12	LMHP12LUU	102	12		21		57	
13	LMHP13LUU	123	13	0 -12	23		61	
16	LMHP16LUU	182	16		28		70	
20	LMHP20LUU	247	20		32	0 -19	80	0 -400
25	LMHP25LUU	525	25		40		112	
30	LMHP30LUU	645	30	0 -15	45	0 -22	123	
35	LMHP35LUU	950	35		52		135	
40	LMHP40LUU	1,450	40		60		151	

注：所有LMHP...L型均为双密封。
Note: All sizes of LMHP...L type are sealed on both sides.



轴径小于或等于13mm
LMHP13 or Less



轴径大于或等于16mm
LMHP16 or More

主要尺寸和公差 Major dimensions and tolerance									偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange											动负荷 Dynamic C N	静负荷 Static Co N
I mm	Df mm	W mm	t mm	A mm	F mm	X mm	Y mm	Z mm				
5	28	18	5	20	-	3.5	6	3.1	15	15	323	529
5	32	21	5	24	-	3.5	6	3.1			431	784
6	40	25	6	29	-	4.5	7.5	4.1			588	1,100
6	42	27	6	32	-	4.5	7.5	4.1			813	1,570
6	43	29	6	33	-	4.5	7.5	4.1			813	1,570
6	48	34	6	31	22	4.5	7.5	4.1			1,230	2,350
8	54	38	8	36	24	5.5	9	5.1	20	20	1,400	2,740
8	62	46	8	40	32	5.5	9	5.1			1,560	3,140
10	74	51	10	49	35	6.6	11	6.1			2,490	5,490
10	82	60	10	55	38	6.6	11	6.1	25	25	2,650	6,270
13	96	70	13	64	45	9	14	8.1			3,430	8,040

国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

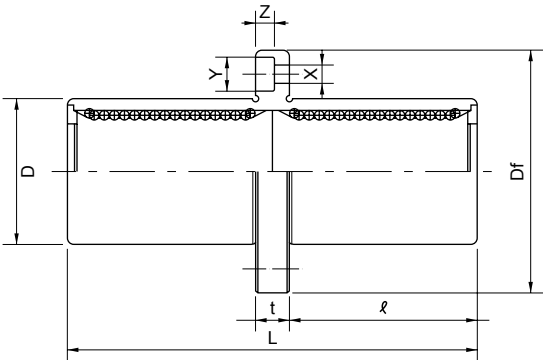
LMF(K)M...LUU尼龙保持架
该类型尺寸是公制的，广泛应用于亚洲和其他国家。
LMF(K)M...LUU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other
countries.



LMFM...LUU

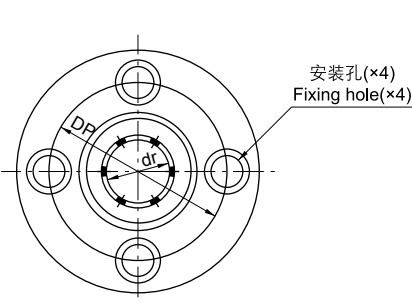


LMKM...LUU

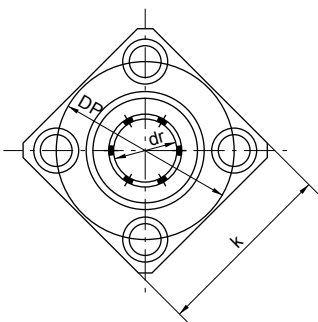


公称轴径 Nominal shaft diameter mm	加长中间 圆法兰 LMFM...LUU	重量 Weight (g)	加长中间 方法兰 LMKM...LUU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
					dr		D		L	
					mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
6	LMFM6LUU	31	LMKM6LUU	25	6	0 -10	12	0 -13	35	±300
8	LMFM8LUU	51	LMKM8LUU	43	8		15		45	
10	LMFM10LUU	98	LMKM10LUU	78	10		19		55	
12	LMFM12LUU	110	LMKM12LUU	90	12		21		57	
13	LMFM13LUU	130	LMKM13LUU	108	13	0 -12	23	0 -16	61	0 -300
16	LMFM16LUU	190	LMKM16LUU	165	16		28		70	
20	LMFM20LUU	260	LMKM20LUU	225	20		32		80	
25	LMFM25LUU	540	LMKM25LUU	500	25		40		112	
30	LMFM30LUU	680	LMKM30LUU	590	30	0 -15	45	0 -22	123	0 -400
35	LMFM35LUU	1,020	LMKM35LUU	930	35		52		135	
40	LMFM40LUU	1,570	LMKM40LUU	1,380	40		60		151	
50	LMFM50LUU	3,600	LMKM50LUU	3,400	50		80		192	
60	LMFM60LUU	4,500	LMKM60LUU	4,060	60	0 -20	90	0 -25	209	

密封型 Seal type: LMFM20 LUU	不标	不带密封	No entry	No seals
	UU	双密封	UU	Seal on both sides



LMFM...LUU



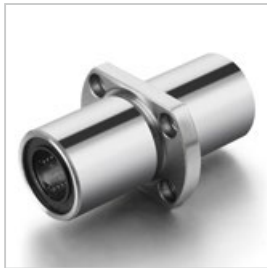
LMKM...LUU

主要尺寸和公差 Major dimensions and tolerance								偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange										动负荷 Dynamic C N	静负荷 Static Co N
ℓ mm	Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm	15	15		
15	28	22	5	20	3.5	6	3.1			323	529
20	32	25	5	24	3.5	6	3.1			431	781
24.5	40	30	6	29	4.5	7.5	4.1			588	1,100
25.5	42	32	6	32	4.5	7.5	4.1			813	1,570
27.5	43	34	6	33	4.5	7.5	4.1			813	1,570
32	48	37	6	38	4.5	7.5	4.1	20	20	1,230	2,350
36	54	42	8	43	5.5	9	5.1			1,400	2,740
52	62	50	8	51	5.5	9	5.1			1,560	3,140
56.5	74	58	10	60	6.6	11	6.1			2,490	5,490
62.5	82	64	10	67	6.6	11	6.1			2,650	6,270
69	96	75	13	78	9	14	8.1			25	25
89.5	116	92	13	98	9	14	8.1	6,080	15,900		
95.5	134	106	18	112	11	17	11.1	7,550	20,000		

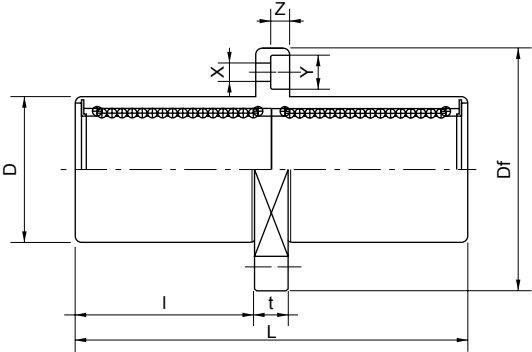
国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

LMHM...LUU尼龙保持架
该类型尺寸是公制的，广泛应用于亚洲和其他国家。
LMHM...LUU (Resin retainer)
This type is a metric dimension series
widely used in Asia and other
countries.

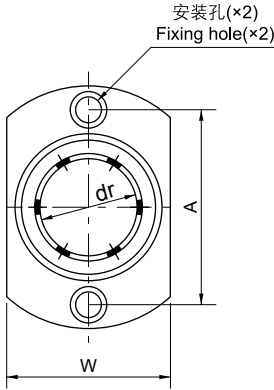


LMHM...LUU

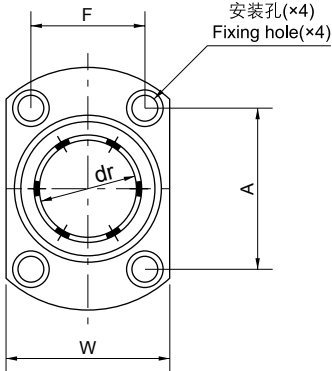


公称轴径 Nominal shaft diameter mm	加长中间 椭圆法兰 LMHM...LUU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
			dr		D		L	
			mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
6	LMHM6LUU	28	6	0 -10	12	0 -13	35	±300
8	LMHM8LUU	47	8		15		45	
10	LMHM10LUU	90	10		19	0 -16	55	0 -300
12	LMHM12LUU	102	12		21		57	
13	LMHM13LUU	123	13	0 -12	23		61	
16	LMHM16LUU	182	16		28		70	
20	LMHM20LUU	247	20		32	0 -19	80	0 -400
25	LMHM25LUU	525	25		40		112	
30	LMHM30LUU	645	30	0 -15	45	0 -22	123	
35	LMHM35LUU	950	35		52		135	
40	LMHM40LUU	1,450	40		60		151	

注：所有LMHM...L型均为双密封。
Note: All sizes of LMHM...L type are sealed on both sides.



轴径小于或等于13mm
LMHM13L or Less



轴径大于或等于16mm
LMHM16L or More

主要尺寸和公差 Major dimensions and tolerance									偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange											动负荷 Dynamic C N	静负荷 Static Co N
I mm	Df mm	W mm	t mm	A mm	F mm	X mm	Y mm	Z mm				
15	28	18	5	20	-	3.5	6	3.1	15	15	323	529
20	32	21	5	24	-	3.5	6	3.1			431	784
24.5	40	25	6	29	-	4.5	7.5	4.1			588	1,100
25.5	42	27	6	32	-	4.5	7.5	4.1			813	1,570
27.5	43	29	6	33	-	4.5	7.5	4.1			813	1,570
32	48	34	6	31	22	4.5	7.5	4.1			1,230	2,350
36	54	38	8	36	24	5.5	9	5.1	20	20	1,400	2,740
52	62	46	8	40	32	5.5	9	5.1			1,560	3,140
56.5	74	51	10	49	35	6.6	11	6.1			2,490	5,490
62.5	82	60	10	55	38	6.6	11	6.1	25	25	2,650	6,270
69	96	70	13	64	45	9	14	8.1			3,430	8,040

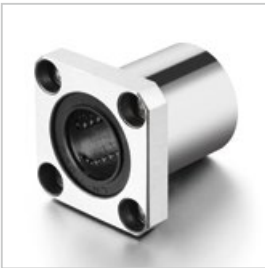
国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

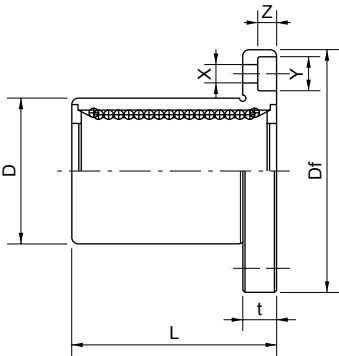
LMEF(K)···UU尼龙保持架
该类型尺寸是公制的，广泛应用于欧洲。
LMEF(K)···UU (Resin retainer)
This type is a metric dimension series
generally used in Europe.



LMEF···UU

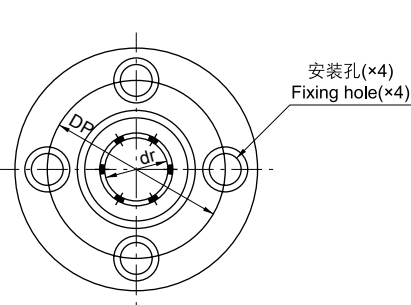


LMEK···UU

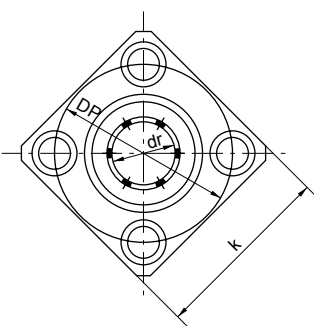


公称轴径 Nominal shaft diameter mm	圆法兰 LMEF···UU	重量 Weight (g)	方法兰 LMEK···UU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
					dr		D		L	
					mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
5	LMEF5UU	26	LMEK5UU	20	5	+8 0	12	0 -8	22	±300
8	LMEF8UU	41	LMEK8UU	33	8		16		25	
12	LMEF12UU	80	LMEK12UU	64	12		22	0 -9	32	0 -200
16	LMEF16UU	103	LMEK16UU	90	16	+9 -1	26		36	
20	LMEF20UU	182	LMEK20UU	147	20	+11 -1	32	0 -11	45	
25	LMEF25UU	335	LMEK25UU	295	25		40		58	0 -300
30	LMEF30UU	560	LMEK30UU	465	30		47		68	
40	LMEF40UU	1,175	LMEK40UU	975	40	+13 -2	62	0 -13	80	0 -400
50	LMEF50UU	1,745	LMEK50UU	1,545	50		75		100	
60	LMEF60UU	3,220	LMEK60UU	2,780	60		90	0 -15	125	
80	LMEF80UU	6,420	LMEK80UU	5,920	80	+16 -4	120		165	

密封型 Seal type: LMEF20 UU	不标	不带密封	No entry	No seals
	UU	双密封	UU	Seal on both sides



LMEF···UU



LMEK···UU

主要尺寸和公差 Major dimensions and tolerance							偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange									动负荷 Dynamic C N	静负荷 Static Co N
Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm				
28	22	5	20	3.5	6	3.1	12	12	206	265
32	25	5	24	3.5	6	3.1			265	402
42	32	6	32	4,5	7.5	4.1			510	784
46	35	6	36	4,5	7.5	4.1			578	892
54	42	8	43	5.5	9	5.1	15	15	862	1,370
62	50	8	51	5.5	9	5.1			980	1,570
76	60	10	62	6.6	11	6.1			1,570	2,740
98	75	13	80	9	14	8.1	17	17	2,160	4,020
112	88	13	94	9	14	8.1			3,820	7,940
134	106	18	112	11	17	11.1	20	20	4,700	9,800
164	136	18	142	11	17	11.1			7,350	16,000

国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

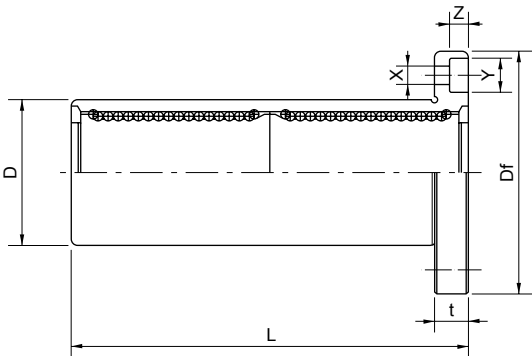
LMEF(K)···LUU尼龙保持架
该类型尺寸是公制的，广泛应用于欧洲。
LMEF(K)···LUU (Resin retainer)
This type is a metric dimension series
generally used in Europe.



LMEF···LUU

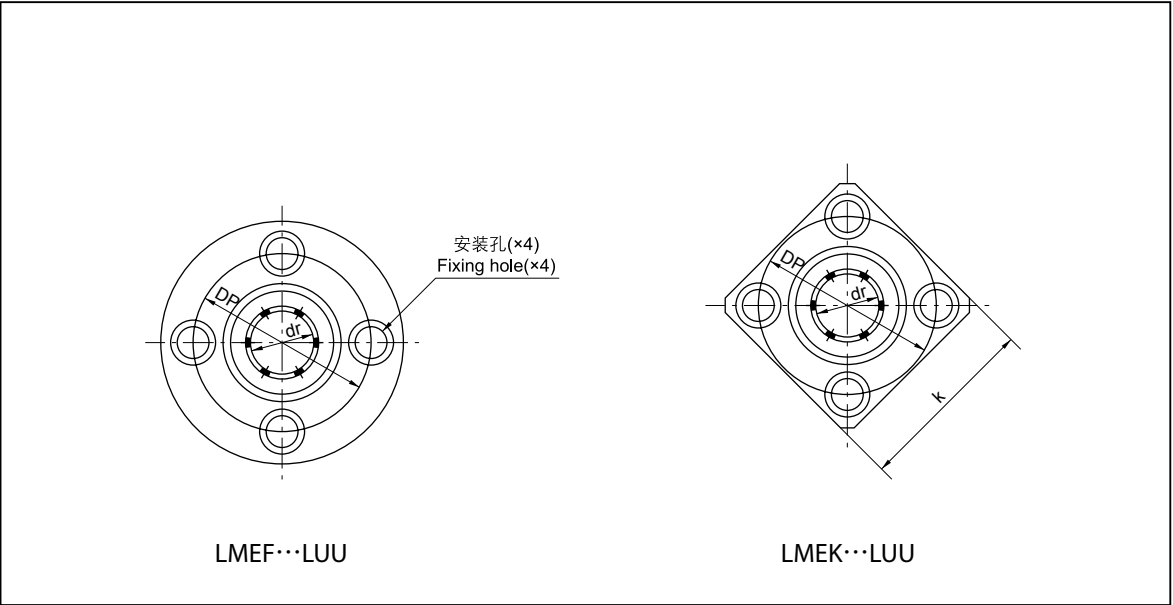


LMEK···LUU



公称轴径 Nominal shaft diameter mm	加长圆法兰 LMEF···LUU	重量 Weight (g)	加长方法兰 LMEK···LUU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
					dr		D		L	
					mm	公差 Tolerance μ m	mm	公差 Tolerance μ m	mm	公差 Tolerance μ m
8	LMEF8LUU	59	LMEK8LUU	51	8	+9 -1	16	0 -9	46	±300
12	LMEF12LUU	110	LMEK12LUU	90	12		22	0 -11	61	0 -300
16	LMEF16LUU	160	LMEK16LUU	135	16	+11 -1	28		68	
20	LMEF20LUU	260	LMEK20LUU	225	20		32		80	
25	LMEF25LUU	540	LMEK25LUU	500	25	+13 -2	40	0 -13	112	0 -400
30	LMEF30LUU	815	LMEK30LUU	720	30		47		123	
40	LMEF40LUU	1,805	LMEK40LUU	1,600	40		62	0 -15	151	
50	LMEF50LUU	2,820	LMEK50LUU	2,620	50	+16 -4	75		192	
60	LMEF60LUU	4,920	LMEK60LUU	4,480	60		90	0 -20	209	

密封型 Seal type:		LMEF20 LUU			
不标	不带密封	No entry	No seals		
UU	双密封	UU	Seal on both sides		



主要尺寸和公差 Major dimensions and tolerance							偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange									动负荷 Dynamic C N	静负荷 Static Co N
Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm				
32	25	5	24	3.5	6	3.1	15	15	421	804
42	32	6	32	4.5	7.5	4.1			813	1,570
46	35	6	36	4.5	7.5	4.1			912	1,780
54	42	8	43	5.5	9	5.1	17	17	1,370	2,740
62	50	8	51	5.5	9	5.1			1,570	3,140
76	50	10	62	6.6	11	6.1			2,500	5,490
98	60	13	80	9	14	8.1	20	20	3,430	8,040
112	75	13	94	9	14	8.1			6,080	15,900
134	88	18	112	11	17	11.1	25	25	7,550	20,000

国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

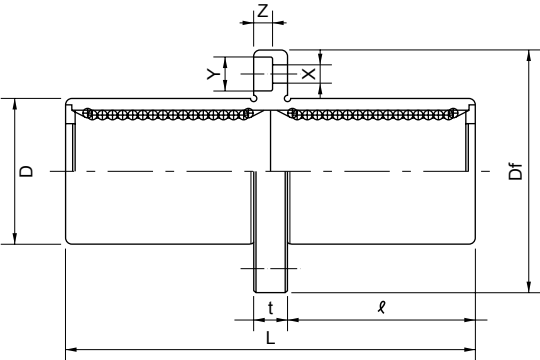
LMEF(K)M...LUU尼龙保持架
该类型尺寸是公制的，广泛应用于欧洲。
LMEF(K)M...LUU (Resin retainer)
This type is a metric dimension series
generally used in Europe.



LMEFM...LUU

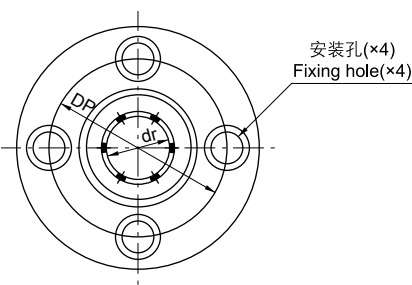


LMEKM...LUU

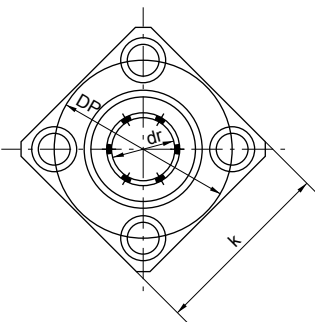


公称轴径 Nominal shaft diameter mm	加长中间圆法 LMEFM...LUU	重量 Weight (g)	加长中间方法 LMEKM...LUU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
					dr		D		L	
					mm	公差 Tolerance μm	mm	公差 Tolerance μm	mm	公差 Tolerance μm
8	LMEFM8LUU	59	LMEKM8LUU	51	8	+9 -1	16	0 -9	46	±300
12	LMEFM12LUU	110	LMEKM12LUU	90	12		22	0 -11	61	0 -300
16	LMEFM16LUU	160	LMEKM16LUU	135	16	+11 -1	26	0 -13	68	
20	LMEFM20LUU	260	LMEKM20LUU	225	20	+13 -2	32		80	0 -400
25	LMEFM25LUU	540	LMEKM25LUU	500	25		40	0 -15	112	
30	LMEFM30LUU	815	LMEKM30LUU	720	30	+16 -4	47	0 -20	123	
40	LMEFM40LUU	1,805	LMEKM40LUU	1,600	40		62		151	
50	LMEFM50LUU	2,820	LMEKM50LUU	2,620	50	+16 -4	75	0 -20	192	
60	LMEFM60LUU	4,920	LMEKM60LUU	4,480	60		90		209	

密封型 Seal type:				
LMEFM20 LUU	不标	不带密封	No entry	No seals
	UU	双密封	UU	Seal on both sides



LMEFM...LUU



LMEKM...LUU

主要尺寸和公差 Major dimensions and tolerance								偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange										动负荷 Dynamic C N	静负荷 Static Co N
ℓ mm	Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm				
20.5	32	25	5	24	3.5	6	3.1	15	15	421	804
27.5	42	32	6	32	4.5	7.5	4.1			813	1,570
31	46	35	6	36	4.5	7.5	4.1			912	1,780
36	54	42	8	43	5.5	9	5.1	17	17	1,370	2,740
52	62	50	8	51	5.5	9	5.1			1,570	3,140
56.5	76	60	10	62	6.6	11	6.1			2,500	5,490
69	98	75	13	80	9	14	8.1	20	20	3,430	8,040
89.5	112	88	13	94	9	14	8.1			6,080	15,900
95.5	134	106	18	112	11	17	11.1	25	25	7,550	20,000

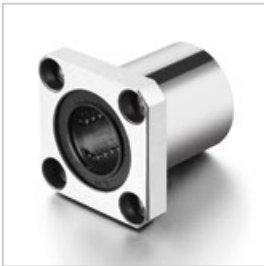
国际单位: 1N≈0.102kg
SIUNIT: 1N≈0.102kg

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

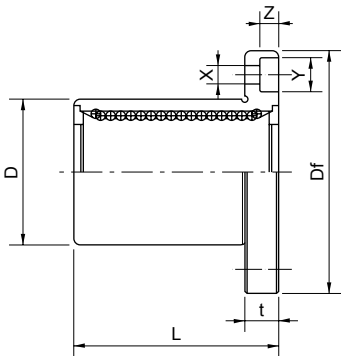
LMBF(K)····UU尼龙保持架
该类型轴承采用英制尺寸，主要是美洲采用。
LMBF(K)····UU (Resin retainer)
This type is a metric dimension series
mainly used in the America.



LMBF····UU

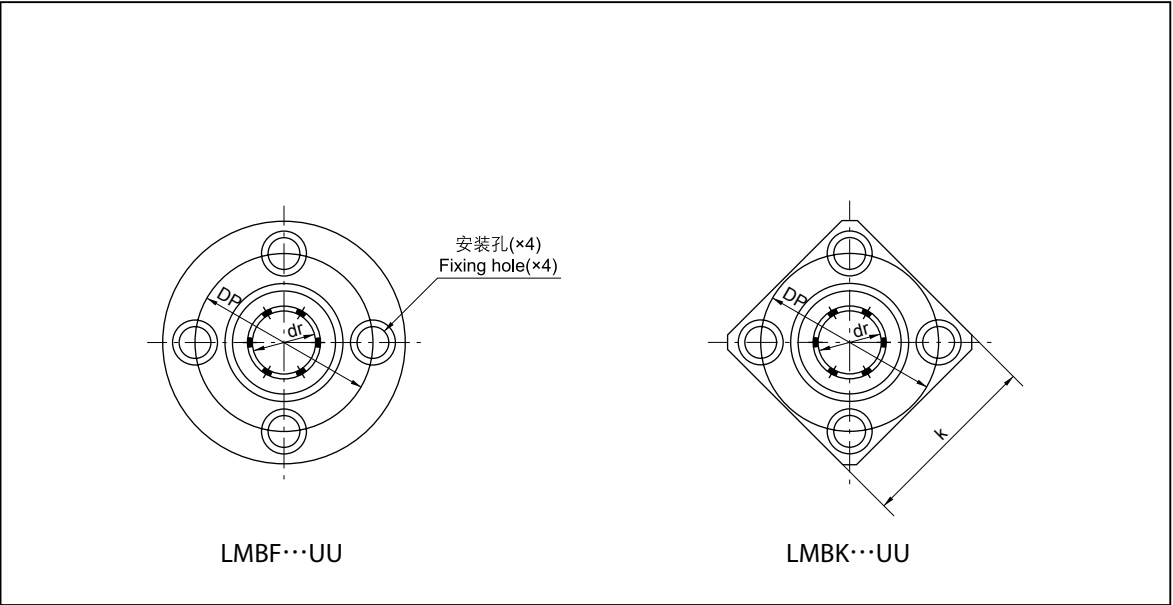


LMBK····UU



公称轴径 Nominal shaft diameter mm	圆(方)法兰 LMBF(K)····UU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
			dr		D		L	
			Inch/mm	公差 Tolerance μ m	Inch/mm	公差 Tolerance μ m	Inch/mm	公差 Tolerance μ m
1/4 6.350	LMBF4UU LMBK4UU	32 25	.2500 6.350	0 -0.00040 0 -9	.5000 12.700	0 -0.00045 0 -11	.7500 19.050	±.012 ±300
3/8 9.525	LMBF6UU LMBK6UU	47 32	.3750 9.525		.6250 15.875	0	.8750 22.225	
1/2 12.700	LMBF8UU LMBK8UU	88 68	.5000 12.700		.8750 22.225	0 -0.00050 0 -13	1.2500 31.750	
5/8 15.875	LMBF10UU LMBK10UU	140 124	.6250 15.875	0 -0.00040 0 -10	1.1250 28.575	0	1.500 38.100	0 -0.008 0 -200
3/4 19.050	LMBF12UU LMBK12UU	190 150	.7500 19.050		1.2500 31.750	0 -0.00065	1.6250 41.275	
1 25.400	LMBF16UU LMBK16UU	325 280	1.0000 25.400		1.5625 39.688	0 -16	2.2500 57.150	
1-1/4 31.750	LMBF20UU LMBK20UU	665 580	1.2500 31.750	0 -0.00050 0 -12	2.0000 50.800	0 -0.00075	2.6250 66.675	0 -0.012 0 -300
1-1/2 38.100	LMBF24UU LMBK24UU	1,100 930	1.5000 38.100		2.3750 60.325	0 -19	3.0000 76.200	
2 50.800	LMBF32UU LMBK32UU	1,760 1,580	2.0000 50.800		3.0000 76.200	0 -0.00090	4.0000 101.600	
2-1/2 63.500	LMBF40UU LMBK40UU	3,570 3,200	2.5000 63.500	0 -0.00060 0 -15	3.7500 95.250	0 -22	5.0000 127.000	0 -0.016 0 -400
3 76.200	LMBF48UU LMBK48UU	5,600 5,000	3.0000 76.200		4.5000 114.300	0	6.0000 152.400	
4 101.600	LMBF64UU LMBK64UU	12,000 11,300	4.0000 101.600		6.0000 152.400	0 -0.00100 0 -25	8.0000 203.200	

密封型 Seal type:				
LMBF20 UU	不标	不带密封	No entry	No seals
	UU	双密封	UU	Seal on both sides





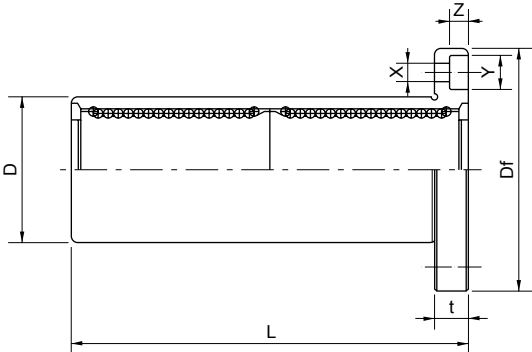
主要尺寸和公差 Major dimensions and tolerance							偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange									动负荷 Dynamic C N	静负荷 Static Co N
Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm				
1.2500 31.750	1.0000 25.400	0.219 5.556	.8750 22.225	.1560 3.969	.2500 6.350	.1410 3.572	.0005 12	.0005 12	206	265
1.5000 38.100	1.2500 31.750	.2500 6.350	1.0620 26.988	.1875 4.763	.2970 7.541	.1720 4.366			225	314
1.7500 44.450	1.3750 34.925	.2500 6.350	1.312 33.338	.1875 4.763	.2970 7.541	.1720 4.366			510	784
2.0000 50.800	1.5000 38.100	.2500 6.350	1.5620 39.688	.1875 4.763	.2970 7.541	.1720 4.366	.0006 15	.0006 15	774	1,180
2.1875 55.563	1.6875 42.863	.3125 7.938	1.7180 43.660	.2187 5.556	.3440 8.731	.2030 5.159			862	1,370
2.5000 63.500	2.0000 50.800	.3125 7.938	2.0310 51.594	.2187 5.556	.3440 8.731	.2030 5.159			980	1,570
3.1250 79.375	2.5000 63.500	.3750 9.525	2.5625 65.088	.2812 7.144	.4060 10.319	.2656 6.747	.0008 20	.0008 20	1,570	2,740
3.7500 95.250	3.0000 76.200	.5000 12.700	3.0625 77.788	.3440 8.731	.5000 12.700	.3280 8.334			2,180	4,020
4.3750 111.125	3.5000 88.900	.5000 12.700	3.6875 93.662	.3440 8.731	.5000 12.700	.3280 8.334			3,820	7,940
5.3750 136.525	4.3750 111.125	.7500 19.050	4.5625 115.887	.4062 10.319	.6250 15.875	.3750 9.525	.0010 25	.0010 25	4,700	10,000
6.1250 155.575	5.0000 127.000	.7500 19.050	5.3125 134.937	.4062 10.319	.6250 15.875	.3750 9.525			7,350	16,000
8.0000 203.200	6.7500 171.450	.8750 22.225	7.0000 177.800	.5000 12.700	.7125 18.097	.5000 12.700			.0012 30	.0012 30

国际单位: 1N≈0.225lbs
1kg≈2.205lbs
SIUNIT: 1N≈0.225lbs
1kg≈2.205lbs

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

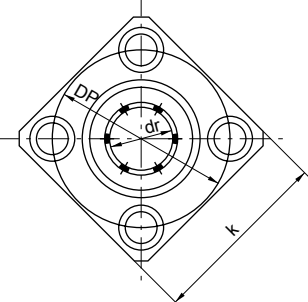
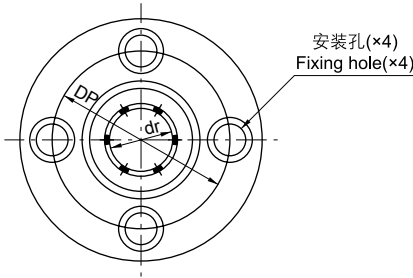
LMBF(K)···LUU尼龙保持架
该类型轴承采用英制尺寸，主要是美洲采用。
LMBF(K)···LUU (Resin retainer)
This type is a metric dimension series
mainly used in the America.





LMBF···LUU

LMBK···LUU



LMBF···LUU

LMBK···LUU

公称轴径 Nominal shaft diameter mm	加长圆 (方) 法兰 LMBF(K)···LUU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
			dr		D		L	
			Inch/mm	公差 Tolerance μ m	Inch/mm	公差 Tolerance μ m	Inch/mm	公差 Tolerance μ m
1/4 6.350	LMBF4LUU LMBK4LUU	40 33	.2500 6.350	0 -0.0040 0 -10	.5000 12.700	0 -0.0050 0 -13	1.3750 34.925	±.012 ±300
3/8 9.525	LMBF6LUU LMBK6LUU	60 45	.3750 9.525		.6250 15.875	0 -0.0065 0 -16	1.5938 40.481	
1/2 12.700	LMBF8LUU LMBK8LUU	126 106	.5000 12.700		.8750 22.225		2.3750 60.325	
5/8 15.875	LMBF10LUU LMBK10LUU	215 200	.6250 15.875		1.1250 28.575		2.8125 71.438	
3/4 19.050	LMBF12LUU LMBK12LUU	280 240	.7500 19.050	0 -0.0050 0 -12	1.2500 31.750	0 -0.0075 0 -19	3.0937 78.581	0 -.012 0 -300
1 25.400	LMBF16LUU LMBK16LUU	515 470	1.0000 25.400		1.5625 39.688		4.2831 108.744	
1-1/4 31.750	LMBF20LUU LMBK20LUU	1,020 935	1.2500 31.750		2.0000 50.800	0 -0.0090 0 -22	5.0000 127.000	
1-1/2 38.100	LMBF24LUU LMBK24LUU	1,630 1,460	1.5000 38.100		2.3750 60.325		5.6875 144.463	
2 50.800	LMBF32LUU LMBK32LUU	2,800 2,620	2.0000 50.800	0 -0.0065 0 -16	3.0000 76.200	0 -0.0100 0 -25	7.7500 196.850	0 -.016 0 -400

密封型 Seal type:
LMBF20 LUU

不标	不带密封	No entry	No seals
UU	双密封	UU	Seal on both sides

主要尺寸和公差 Major dimensions and tolerance							偏心 Eccentricity μ m	垂直度 Squareness μ m	额定负荷 Basic load rating	
法兰 Flange									动负荷 Dynamic C N	静负荷 Static Co N
Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm				
1.2500 31.750	1.0000 25.400	0.2188 5.556	.8750 22.225	.1560 3.969	.2500 6.350	.1406 3.572	.0006 15	.0006 15	323	530
1.5000 38.100	1.2500 31.750	.2500 6.350	1.0620 26.988	.1875 4.763	.2969 7.541	.1719 4.366			353	630
1.7500 44.450	1.3750 34.925	.2500 6.350	1.312 33.338	.1875 4.763	.2969 7.541	.1719 4.366			813	1,570
2.0000 50.800	1.5000 38.100	.2500 6.350	1.5620 39.688	.1875 4.763	.2969 7.541	.1719 4.366			1,230	2,350
2.1875 55.563	1.6875 42.863	.3125 7.938	1.7180 43.660	.2187 5.556	.3438 8.731	.2031 5.159	.0008 20	.0008 20	1,370	2,740
2.5000 63.500	2.0000 50.800	.3125 7.938	2.0310 51.594	.2187 5.556	.3438 8.731	.2031 5.159			1,570	3,140
3.1250 79.375	2.5000 63.500	.3750 9.525	2.5625 65.088	.2813 7.144	.4063 10.319	.2656 6.747			2,500	5,490
3.7500 95.250	3.0000 76.200	.5000 12.700	3.0625 77.788	.3437 8.731	.5000 12.700	.3281 8.334			3,430	8,040
4.3750 111.125	3.5000 88.900	.5000 12.700	3.6875 93.662	.3437 8.731	.5000 12.700	.3281 8.334	.0012 30	.0012 30	6,080	15,900

国际单位: 1N≈0.225lbs
1kb≈2.205lbs
SIUNIT: 1N≈0.225lbs
1kb≈2.205lbs

法兰式直线轴承系列
Flanged Linear Motion Ball Bearing Series

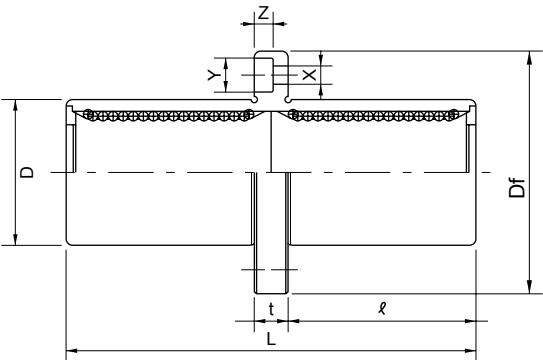
LMBF(K)M...LUU尼龙保持架
该类型轴承采用英制尺寸，主要是美洲采用。
LMBF(K)M...LUU (Resin retainer)
This type is a metric dimension series
mainly used in the America.



LMBFM...LUU

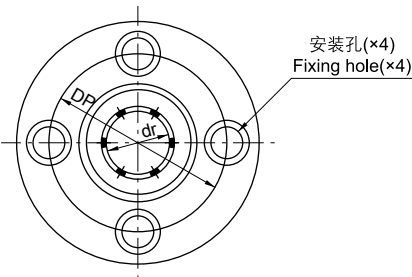


LMBKM...LUU

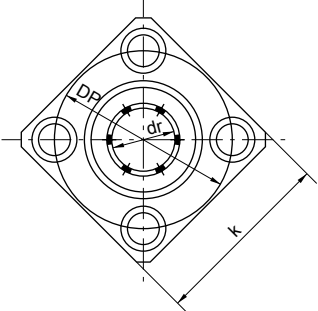


公称轴径 Nominal shaft diameter Inch/mm	加长中间 圆(方)法兰 LMBF(K)M...LUU	重量 Weight (g)	主要尺寸和公差 Major dimensions and tolerance					
			dr		D		L	
			Inch/mm	公差 Tolerance Inch/μ m	Inch/mm	公差 Tolerance Inch/μ m	Inch/mm	公差 Tolerance Inch/μ m
1/4 6.350	LMBFM4LUU LMBKM4LUU	40 33	.2500 6.350	0 -0.00040 0 -10	.5000 12.700	0 -0.00050 0 -13	1.3750 34.925	±.012 ±300
3/8 9.525	LMBFM6LUU LMBKM6LUU	60 45	.3750 9.525		.6250 15.875	0 -0.00065 0 -16	1.5938 40.481	
1/2 12.700	LMBFM8LUU LMBKM8LUU	126 106	.5000 12.700		.8750 22.225		2.3750 60.325	
5/8 15.875	LMBFM10LUU LMBKM10LUU	215 200	.6250 15.875	0 -0.00050 0 -12	1.1250 28.575	0 -0.00075 0 -19	2.8125 71.438	0 -.012 0 -300
3/4 19.050	LMBFM12LUU LMBKM12LUU	280 240	.7500 19.050		1.2500 31.750		3.0937 78.581	
1 25.400	LMBFM16LUU LMBKM16LUU	515 470	1.0000 25.400		1.5625 39.688		4.2831 108.744	
1-1/4 31.750	LMBFM20LUU LMBKM20LUU	1,020 935	1.2500 31.750	0 -0.00065 0 -16	2.0000 50.800	0 -0.00090 0 -22	5.0000 127.000	0 -.016 0 -400
1-1/2 38.100	LMBFM24LUU LMBKM24LUU	1,630 1,460	1.5000 38.100		2.3750 60.325		5.6875 144.463	
2 50.800	LMBFM32LUU LMBKM32LUU	2,800 2,620	2.0000 50.800		3.0000 76.200	0 -0.00100 0 -25	7.7500 196.850	

密封型 Seal type:			
LMBFM20 LUU	不标	不带密封	No entry
	UU	双密封	UU Seal on both sides



LMBFM...LUU



LMBKM...LUU

主要尺寸和公差 Major dimensions and tolerance								偏心 Eccentricity Inch/μ m	垂直度 Squareness Inch/μ m	额定负荷 Basic load rating	
法兰 Flange										动负荷 Dynamic C N	静负荷 Static Co N
ℓ Inch/mm	Df Inch/mm	K Inch/mm	t Inch/mm	Dp Inch/mm	X Inch/mm	Y Inch/mm	Z Inch/mm				
.5781 14.684	1.2500 31.750	1.0000 25.400	0.2188 5.556	.8750 22.225	.1560 3.969	.2500 6.350	.1406 3.572	.0006 15	.0006 15	323	530
.6791 17.066	1.5000 38.100	1.2500 31.750	.2500 6.350	1.0625 26.988	.1875 4.763	.2969 7.541	.1719 4.366			353	630
1.0625 26.988	1.7500 44.450	1.3750 34.925	.2500 6.350	1.3125 33.338	.1875 4.763	.2969 7.541	.1719 4.366			813	1,570
1.2813 32.544	2.0000 50.800	1.5000 38.100	.2500 6.350	1.5625 39.688	.1875 4.763	.2969 7.541	.1719 4.366	.0008 20	.0008 20	1,230	2,350
1.3906 35.322	2.1875 55.563	1.6875 42.863	.3125 7.938	1.7188 43.656	.2188 5.556	.3438 8.731	.2031 5.159			1,370	2,740
1.9844 50.403	2.5000 63.500	2.0000 50.800	.3125 7.938	2.0313 51.594	.2188 5.556	.3438 8.731	.2031 5.159			1,570	3,140
2.3125 58.738	3.1250 79.375	2.5000 63.500	.3750 9.525	2.5625 65.088	.2813 7.144	.4063 10.319	.2656 6.747	.0010 25	.0010 25	2,500	5,490
2.5938 65.822	3.7500 95.250	3.0000 76.200	.5000 12.700	3.0625 77.788	.3437 8.731	.5000 12.700	.3281 8.334			3,430	8,040
3.6250 92.075	4.3750 111.125	3.5000 88.900	.5000 12.700	3.6875 93.662	.3437 8.731	.5000 12.700	.3281 8.334			.0012 30	.0012 30

国际单位: 1N≈0.225lbs
1kb≈2.205lbs
SIUNIT: 1N≈0.225lbs
1kb≈2.205lbs

直线轴承箱式单元

Linear Motion Ball Bearing Slide Units

- ACME公司提供各类轴承滑动单元，供设计直线运动产品时采用。

精密加工的铝制滑动单元，遵循标准化的设计，具有可互换性，成本低，设计高效等优点。
- ACME Co., Ltd can supply all types of Linear Motion Ball Bearing Slide Units, It's used for rectilinear motion product. Precise machining aluminium Slide Units, follows standardization desingn, cost low, designs high efficiency and so on.

SCJ



间隙可调型铝制箱式单元（带有沿轴轨槽）
SCJ型能通过间隙调整实现轴与箱体精密配合。
SCJ clearance adjustment aluminium Slide Units
(include along shaft groove)
SCJ can pass clearance adjustment accomplish shaft with case body accperation.

SC
SC(E)



标准型铝制箱式单元
通过螺栓实现简单安装。
SC(E) Standard aluminium Slide Units
Pass screw accomplish simple installation

SC...L
SC(E)...L



长型铝制箱式单元（带有两个标准型直线轴承）
SC(E)...L lengthen aluminium Slide Units
(include two standard linear motion ball bearings)

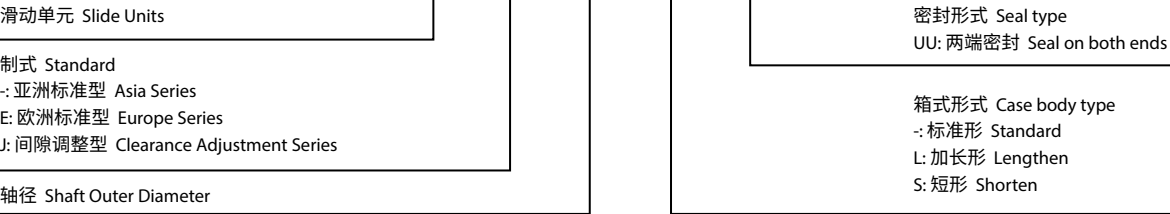
SC...S
SC(E)...S



短型铝制箱式单元（带有标准型直线轴承）
比SC(E)型 更紧凑。
SC(E)...S shorten aluminium Slide Units
(include one standard linear motion ball bearings)
Than SC(E) much compact.


产品型号说明

Product model Description

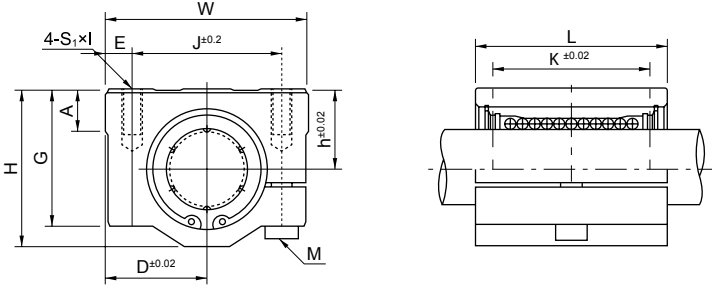


直线轴承箱式单元SCJ系列

Linear Motion Ball Bearing Slide Units SCJ Series

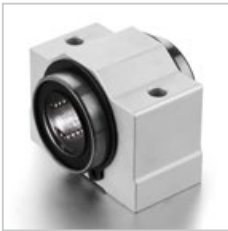




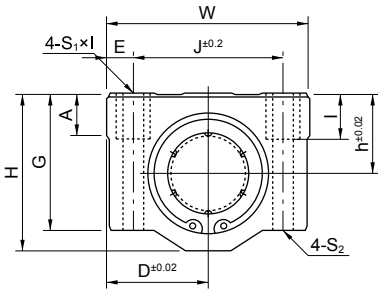
SCJ...UU



型号 Model	内装轴承 Liner Bearing	额定负荷 Basic load rating		轴径 Shaft Diameter	尺寸 Dimensions (mm)												重量 Weight (g)
		动负荷 Dynamic C N	静负荷 Static Co N		h	D	W	H	G	A	J	E	S1×1	K	L	M	
SCJ10UU	LM10UUAJ	372	549	10	13	20	40	26	21	8.0	28	6.0	M5×12	21	35	M5	90
SCJ12UU	LM12UUAJ	510	784	12	15	21	42	28	24	8.0	30.5	5.75	M5×12	26	36	M5	112
SCJ13UU	LM13UUAJ	510	784	13	15	22	44	30	24.5	8.0	33	5.5	M5×12	26	39	M5	123
SCJ16UU	LM16UUAJ	774	1,180	16	19	25	50	38.5	32.5	9.0	36	7.0	M5×12	34	44	M5	189
SCJ20UU	LM20UUAJ	882	1,370	20	21	27	54	41	35	11	40	7.0	M6×12	40	50	M5	237
SCJ25UU	LM25UUAJ	980	1,570	25	26	38	76	51.5	42	12	54	11	M8×18	50	67	M6	555
SCJ30UU	LM30UUAJ	1,570	2,740	30	30	39	78	59.5	49	15	58	10	M8×18	58	72	M6	685
SCJ35UU	LM35UUAJ	1,670	3,140	35	34	45	90	68	54	18	70	10	M8×18	60	80	M6	1,100
SCJ40UU	LM40UUAJ	2,160	4,020	40	40	51	102	78	62	20	80	11	M10×25	60	90	M8	1,600
SCJ50UU	LM50UUAJ	3,820	7,940	50	52	61	122	102	80	25	100	11	M10×25	80	110	M8	3,350

直线轴承箱式单元SC系列
Linear Motion Ball Bearing Slide Units SC Series



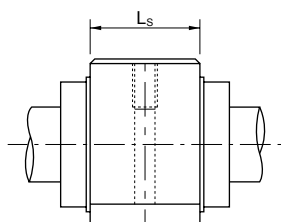
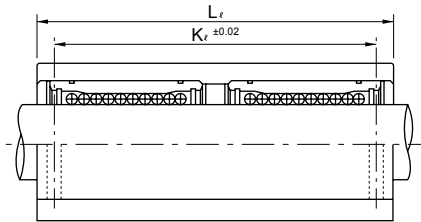
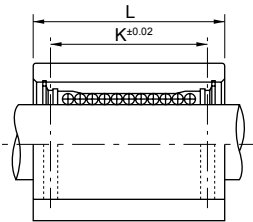


SC...UU

SC...LUU

SC...SUU

标准型 Standard		额定负荷 Basic load rating		重量 Weight (g)	加长型 Length Type		额定负荷 Basic load rating		重量 Weight (g)	短型 Shorten Type	
型号 Model	内装轴承 Liner Bearing	动负荷 Dynamic C N	静负荷 Static Co N		型号 Model	内装轴承 Liner Bearing	动负荷 Dynamic C N	静负荷 Static Co N		型号 Model	内装轴承 Liner Bearing
SC8UU	LM8UU	274	392	56	SC8LUU	2×LM8UU	431	784	94	SC8SUU	LM8UU
SC10UU	LM10UU	372	549	90	SC10LUU	2×LM10UU	588	1,100	147	SC10SUU	LM10UU
SC12UU	LM12UU	510	784	112	SC12LUU	2×LM12UU	813	1,570	220	SC12SUU	LM12UU
SC13UU	LM13UU	510	784	123	SC13LUU	2×LM13UU	813	1,570	245	SC13SUU	LM13UU
SC16UU	LM16UU	774	1,180	189	SC16LUU	2×LM16UU	1,230	2,350	376	SC16SUU	LM16UU
SC20UU	LM20UU	882	1,370	237	SC20LUU	2×LM20UU	1,410	2,740	476	SC20SUU	LM20UU
SC25UU	LM25UU	980	1,570	555	SC25LUU	2×LM25UU	1,610	3,140	1,115	SC25SUU	LM25UU
SC30UU	LM30UU	1,570	2,740	685	SC30LUU	2×LM30UU	2,450	5,490	1,375	SC30SUU	LM30UU
SC35UU	LM35UU	1,670	3,140	1,100	SC35LUU	2×LM35UU	2,650	6,270	2,200	SC35SUU	LM35UU
SC40UU	LM40UU	2,160	4,020	1,600	SC40LUU	2×LM40UU	3,430	8,040	3,200	SC40SUU	LM40UU
SC50UU	LM50UU	3,820	7,940	3,350	SC50LUU	2×LM50UU	6,080	15,900	6,720	SC50SUU	LM50UU



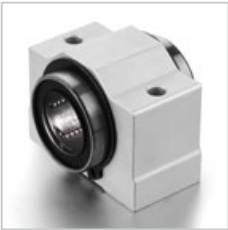


SC...UU

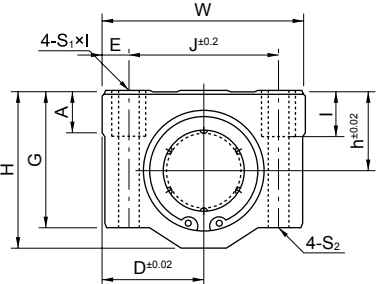
SC...LUU

SC...SUU

额定负荷 Basic load rating		重量 Weight (g)	尺寸 Dimensions (mm)															
动负荷 Dynamic C N	静负荷 Static Co N		轴径 Shaft Diameter	通用尺寸 Nominal Dimensions (mm)										SC···UU		SC···LUU		SC···SUU
				h	D	W	H	G	A	J	E	S1×1	S ₂	K	L	K _r	L _r	L _s
260	400	36	φ8	11	17	34	22	18	6	24	5	M4×8	φ3.4	18	30	42	58	15.4
370	540	63	φ10	13	20	40	26	21	8	28	6	M5×12	φ4.3	21	35	46	68	19.5
410	590	74	φ12	15	21	42	28	24	8	30.5	5.75	M5×12	φ4.3	26	36	50	70	20.5
500	770	85	φ13	15	22	44	30	24.5	8	33	5.5	M5×12	φ4.3	26	39	50	75	20.5
770	1,170	132	φ16	19	25	50	38.5	32.5	9	36	7	M5×12	φ4.3	34	44	60	85	23.5
860	1,370	170	φ20	21	27	54	41	35	11	40	7	M6×12	φ5.2	40	50	70	96	27.4
980	1,560	405	φ25	26	38	76	51.5	42	12	54	11	M8×18	φ7.0	50	67	100	130	37.4
1,560	2,740	495	φ30	30	39	78	59.5	49	15	58	10	M8×18	φ7.0	58	72	110	140	40.9
1,660	3,130	790	φ35	34	45	90	68	54	18	70	10	M8×18	φ7.0	60	80	120	155	45.4
2,150	4,010	1,220	φ40	40	51	102	78	62	20	80	11	M10×25	φ8.7	60	90	140	175	56.4
3,820	7,930	2,300	φ50	52	61	122	102	80	25	100	11	M10×25	φ8.7	80	110	160	215	68.9

直线轴承箱式单元SCE系列
Linear Motion Ball Bearing Slide Units SCE Series



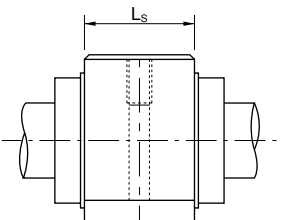
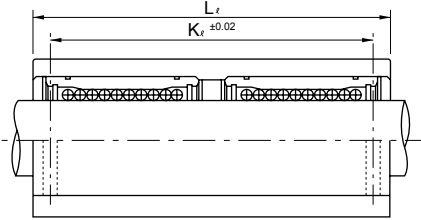
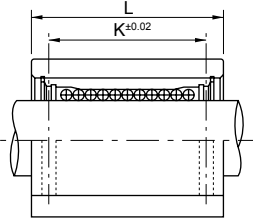


SCE...UU

SCE...LUU

SCE...SUU

标准型 Standard		额定负荷 Basic load rating		重量 Weight (g)	加长型 Length Type		额定负荷 Basic load rating		重量 Weight (g)	短型 Shorten Type	
型号 Model	内装轴承 Liner Bearing	动负荷 Dynamic C N	静负荷 Static Co N		型号 Model	内装轴承 Liner Bearing	动负荷 Dynamic C N	静负荷 Static Co N		型号 Model	内装轴承 Liner Bearing
SCE8UU	LME8UU	260	400	60	SCE8LUU	2×LME8UU	410	800	98	SCE8SUU	LME8UU
SCE12UU	LME12UU	410	590	118	SCE12LUU	2×LME12UU	650	1,180	232	SCE12SUU	LME12UU
SCE16UU	LME16UU	770	1,170	180	SCE16LUU	2×LME16UU	1,230	2,340	360	SCE16SUU	LME16UU
SCE20UU	LME20UU	860	1,370	245	SCE20LUU	2×LME20UU	1,370	2,740	490	SCE20SUU	LME20UU
SCE25UU	LME25UU	980	1,560	550	SCE25LUU	2×LME25UU	1,560	3,120	1,100	SCE25SUU	LME25UU
SCE30UU	LME30UU	1,560	2,740	760	SCE30LUU	2×LME30UU	2,490	5,480	1,525	SCE30SUU	LME30UU
SCE40UU	LME40UU	2,150	4,010	1,700	SCE40LUU	2×LME40UU	3,440	8,020	3,400	SCE40SUU	LME40UU
SCE50UU	LME50UU	3,820	7,930	2,950	SCE50LUU	2×LME50UU	6,110	15,860	5,920	SCE50SUU	LME50UU



SCE...LUU

SCE...LUU

SCE...SUU

额定负荷 Basic load rating		重量 Weight (g)	尺寸 Dimensions (mm)																
动负荷 Dynamic C N	静负荷 Static Co N		轴径 Shaft Diameter	通用尺寸 Nominal Dimensions (mm)										SC···UU		SC···LUU		SC···SUU	
				h	D	W	H	G	A	J	E	S1×1	S ₂	K	L	K _t	L _t	L _s	
260	400	40	φ8	11	17	34	22	18	6	24	5	M4×8	φ3.4	18	30	42	58	14.4	
410	590	82	φ12	15	22	44	30	24	8	33	5.5	M5×10	φ4.3	26	39	64	77	20.3	
770	1,170	122	φ16	19	25	50	38.5	32.5	9	36	7	M5×12	φ4.3	34	44	79	89	22.3	
860	1,370	176	φ20	21	27	54	41	35	11	40	7	M6×12	φ5.2	40	53	90	106	28.3	
980	1,560	400	φ25	26	38	76	51.5	41	12	54	11	M8×18	φ7.0	50	67	119	136	40.4	
1,560	2,740	570	φ30	30	39	78	59.5	49	15	58	10	M8×18	φ7.0	58	76	132	154	48.4	
2,150	4,010	1,320	φ40	40	51	102	78	62	20	80	11	M10×25	φ8.7	60	90	150	180	56.4	
3,820	7,930	1,900	φ50	52	61	122	102	80	25	100	11	M10×25	φ8.7	80	110	200	230	72.3	

支撑导轨单元 Support Rail Units

SBR...Slide Units



TBR...Slide Units



SBS...Support Rail



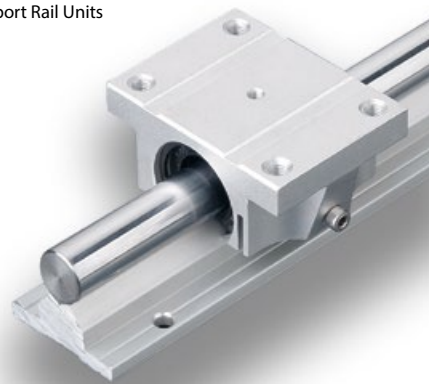
TBS...Support Rail



SBR...S Support Rail Units



TBR...S Support Rail Units



支撑导轨SBS系列 Support Rail SBS Series

SB **S** **...A** **-1000L**

SB支撑导轨
SB Support Rail

S: 带轴 With shaft
-: 不带轴 No shaft

支撑轨长度 Length of Rail

轴径 Shaft Diameter

★下表中的长度尺寸为推荐的标值用户订货时需要提供图纸。
We could manufacture according to customer's requirements.

型号 Model	轴径 Shaft Diameter	尺寸 Nominal Dimensions (mm)														重量 Weight (g)
		E	h	B	H	T	F	X	Y	C	θ	S ₁	a ₁	a ₂	d ₁	
SBS16A	φ16	20	25	40	17.8	5	18.5	8	11.7	30	80°	φ5.5	6	9.5	5.5	2,560
SBS20A	φ20	22.5	27	45	17.7	5	19	8	10	30	50°	φ5.5	6.5	11	6.6	3,500
SBS25A	φ25	27.5	33	55	21	6	21.5	8	12	35	50°	φ6.6	6.5	11	6.6	5,300
SBS30A	φ30	30	37	60	22.8	7	26.5	10.3	13	40	50°	φ6.6	8.5	14	9	7,380
SBS35A	φ35	32.5	43	65	26.5	8	28	13	15.5	45	50°	φ9.0	8.5	14	9	9,680
SBS40A	φ40	37.5	48	75	29.4	9	38	16	17	55	50°	φ9.0	8.5	14	9	12,690
SBS50A	φ50	47.5	62	95	38.8	11	45	20	21	70	50°	φ11	12.5	19	11	20,460

支撑轨标准长度和主要尺寸
Support Rail Standard Length and Dimensions

型号 Model	SBS16A	SBS20A	SBS25A	SBS30A	SBS35A	SBS40A	SBS50A
Standard Length L	190	340	250	450	460	460	470
	340	640	450	850	660	660	670
	640	940	850	1,250	860	860	870
	940	1,240	1,250	1,450	1,060	1,060	1,070
N	20	20	25	25	30	30	35
P	150	150	200	200	200	200	200
Max.Length	1,390 4,000	1,390 4,000	1,850 4,000	1,850 4,000	1,860 4,000	1,860 4,000	2,070 4,000

支撑导轨TBS系列
Support Rail TBS Series

TB

S

...A

-1000L

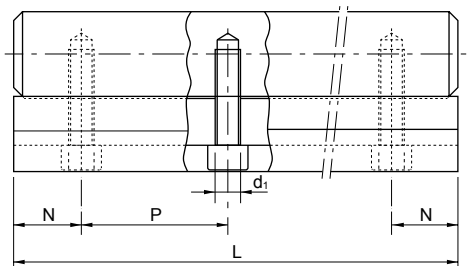
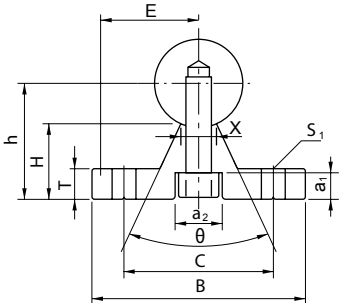
TBS支撑导轨
TBS Support Rail

S: 带轴 With shaft
-: 不带轴 No shaft

支撑轨长度 Lenght of Rail

轴径 Shaft Diameter

★下表中的长度尺寸为推荐的标值，用户订货时需要提供图纸。
We could manufacture according to customer's requirements.



型号 Model	轴径 Shaft Diameter	尺寸 Nominal Dimensions (mm)												重量 Weight (g)
		E	h	B	H	T	X	C	θ	S ₁	a ₁	a ₂	d ₁	
TBS16A	16	25	22	50	14.84	6	8	37	60°	5.5	6	9.5	5.5	2,660
TBS20A	20	27.5	29	55	19.64	8	8	40	50°	5.5	6.5	11	6.6	4,230
TBS25A	25	32.5	32	65	20	10	8	45	50°	6.6	6.5	11	6.6	5,850
TBS30A	30	37.5	36.5	75	22.28	12	10.3	55	50°	6.6	8.5	14	9	8,280

支撑轨标准长度和主要尺寸
Support Rail Standard Length and Dimensions

型号 Model	TBS16A	TBS20A	TBS25A	TBS30A
Standard Length L	190 340 640 940	340 640 940 1,240	250 450 850 1,250	450 850 1,250 1,450
N	20	20	25	25
P	150	150	200	200
Max.Length	1,390 4,000	1,390 4,000	1,850 4,000	1,850 4,000

支撑导轨单元SBR...S系列
Support Rail Units SBR...S Series

SBR...S

2A

+ 1000L

SBR支撑导轨单元
SBR Support Rail Units

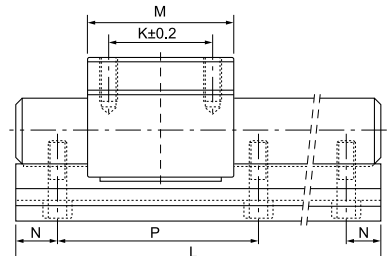
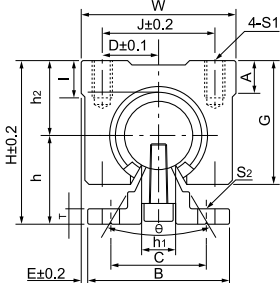
每条导轨上箱式单元数量
Number of the Units On One Support Rail

支撑轨长度★ Rail Length

轴径 Shaft Diameter

★ 指支撑轨与轴组合件长度，标准值及主要尺寸见SBS系列表。用户订货时需要提供图纸。
The main lengths of rails and slide units can be searched on the form of SBS series.

★★箱式单元型号 Units Designation



型号 Model		轴径 Shaft Diameter	额定负荷 Basic load rating		重量 Weight (g)		尺寸 Dimensions (mm)				
支撑导轨单元 Rail Units	箱式单元★★ Slide Units		动负荷 Dynamic C N	静负荷 Static Co N	箱式单元 Slide Units (g)	导轨 Rails (g/m)	D	h	H	E	θ
SBR16SA	SBR16UUA	φ16	770	1,170	150	2,560	22.5	25	45	2.5	80°
SBR20SA	SBR20UUA	φ20	860	1,370	200	3,500	24	27	50	1.5	60°
SBR25SA	SBR25UUA	φ25	980	1,560	450	5,300	30	33	60	2.5	50°
SBR30SA	SBR30UUA	φ30	1,560	2,740	630	7,380	35	37	70	5	50°
SBR35SA	SBR35UUA	φ35	1,660	3,130	920	10,050	40	43	80	7.5	50°
SBR40SA	SBR40UUA	φ40	2,150	4,010	1,330	13,100	45	48	90	7.5	50°
SBR50SA	SBR50UUA	φ50	3,820	7,930	3,000	20,650	60	62	115	12.5	50°

型号 Model	尺寸 Dimensions (mm)												
	W	G	A	B	T	M	S ₁ ×1	J	K	S ₂	C	N	p
SBR16SA	45	33	9	40	5	45	M5×12	32	30	φ5.5	30	20	150
SBR20SA	48	39	11	45	5	50	M6×12	35	35	φ5.5	30	20	150
SBR25SA	60	47	14	55	6	65	M6×12	40	40	φ6.6	35	25	200
SBR30SA	70	56	15	60	7	70	M8×18	50	50	φ6.6	40	25	200
SBR35SA	80	63	18	65	8	80	M8×18	55	55	φ9.0	45	30	200
SBR40SA	90	72	20	75	9	90	M10×20	65	65	φ9.0	55	30	200
SBR50SA	120	92	25	95	11	110	M10×20	94	80	φ11	70	35	200

型号 Model	尺寸 Dimensions (mm)											配合直线轴承			
												型号 Model	额定负荷		重量 Weight (g)
	动负荷 Dynamic C N	静负荷 Static Co N													
SBR16LUU	20	22.5	45	85	33	10	80°	60	M5	12	9	2×LM16UUOP	1,548	2,360	300
SBR20LUU	23	24	48	96	39	10	60°	70	M6	12	11	2×LM20UUOP	1,764	2,740	400
SBR25LUU	27	30	60	130	47	11.5	50°	100	M6	12	14	2×LM25UUOP	1,960	3,140	900
SBR30LUU	33	35	70	140	56	14	50°	110	M8	18	15	2×LM30UUOP	3,140	5,480	1,260
SBR40LUU	42	45	90	175	72	19	50°	140	M10	20	20	2×LM40UUOP	4,320	8,040	2,660

支撑导轨单元TBR...S系列
Support Rail Units TBR...S Series

TBR...S

2A + 1000L

轴径 Shaft Diameter

TBR支撑导轨单元
TBR Support Rail Units

每条导轨上箱式单元数量
Number of the Units On One Support Rail Units

支撑轨长度★ Rail Lenght

★ 指支撑轨与轴组合件长度，标准值及主要尺寸见TBS系列表。用户订货时需要提供图纸。
The main lengths of rails and slide units can be searched on the form of TBS series.

★★箱式单元型号 Units Designation

型号 Model		轴径 Shaft Diameter	额定负荷 Basic load rating		重量 Weight (g)		尺寸 Dimensions (mm)			
支撑导轨单元 Rail Units	箱式单元** Slide Units		动负荷 Dynamic Co N	静负荷 Static Co N	箱式单元 Slide Units (g)	导轨 Rails (g/m)	D	h	H	E
TBR16SA	TBR16UU	16	392	490	180	2,450	31	22	40	25
TBR20SA	TBR20UU	20	784	1,176	300	3,600	34	29	50	27.5
TBR25SA	TBR25UU	25	1,568	2,352	600	5,600	41	32	60	32.5
TBR30SA	TBR30UU	30	1,764	2,940	900	8,000	45.5	36.5	70	37.5

型号 Designat ion	尺寸 Dimensions (mm)												
	W	G	A	B	T	M	S ₁	J	K	S ₂	C	N	p
TBR16SA	62	26	8	50	6	42	M5	50	30	φ5.5	37	20	150
TBR20SA	68	31	10	55	8	51	M6	54	37	φ5.5	40	20	150
TBR25SA	82	41	12	65	10	65	M8	65	50	φ6.6	45	25	200
TBR30SA	91	48	12	75	12	75	M8	75	60	φ6.6	55	25	200

型号 Model	轴径 Shaft Diameter	额定负荷 Basic load rating		尺寸 Dimensions (mm)									配合直线轴承	
		动负荷 Dynamic CN	静负荷 Static Co N	W	G	A	M	S ₁	J	K	E	h ₂	型号 Model	额定负荷 Basic load rating
TBR16LUU	16	780	980	62	26	8	85	M5	50	60	31	18	2×LM16UUOP	392 490
TBR20LUU	20	1,568	2,352	68	31	10	96	M6	54	70	34	21	2×LM20UUOP	784 1,176
TBR25LUU	25	3,136	4,704	82	41	12	130	M8	65	100	41	28	2×LM25UUOP	1,568 2,352
TBR30LUU	30	3,528	5,880	91	48	12	140	M8	75	110	45.5	33.5	2×LM30UUOP	1,764 2,940

轴支座
Slide Support

SH ...

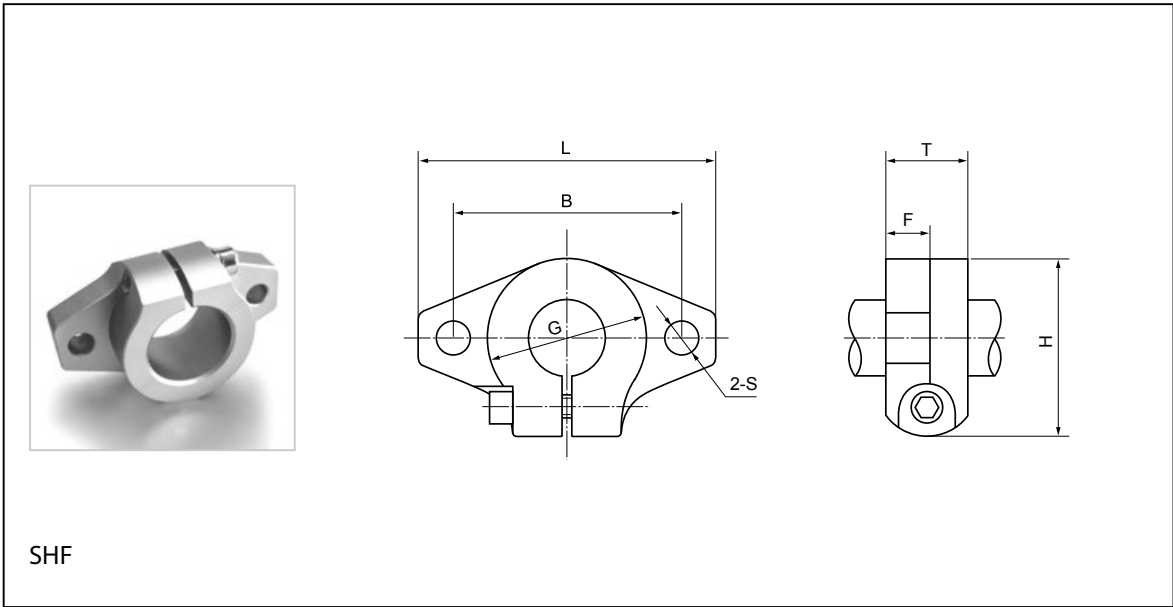
ACME轴支座 Support of Shaft

轴径 Shaft Diameter

SH

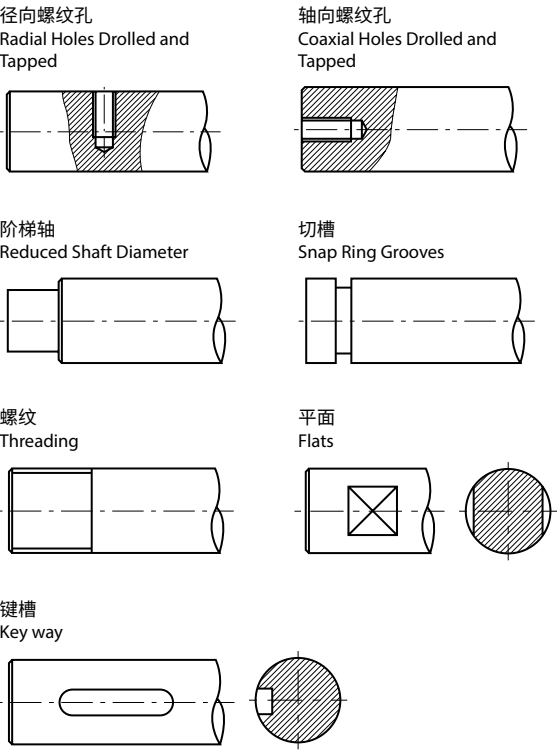
型号 Model	轴径 Shaft Diameter	尺寸 Nominal Dimensions (mm)											重量 Weight (g)
		h	A	W	H	T	E	D	C	B	S	J	
SH8	φ8	20	21	42	32.8	6	18	5	32	14	φ5.5	M4	24
SH10	φ10	20	21	42	32.8	6	18	5	32	14	φ5.5	M4	24
SH12	φ12	23	21	42	37.5	6	20	5	32	14	φ5.5	M4	30
SH13	φ13	23	21	42	37.5	6	20	5	32	14	φ5.5	M4	30
SH16	φ16	27	24	48	44	8	25	5	38	16	φ5.5	M4	40
SH20	φ20	31	30	60	51	10	30	7.5	45	20	φ6.6	M5	70
SH25	φ25	35	35	70	60	12	38	7	56	24	φ6.6	M6	130
SH30	φ30	42	42	84	70	12	44	10	64	28	φ9	M6	180
SH35	φ35	50	49	98	82	15	50	12	74	32	φ11	M8	270
SH40	φ40	60	57	114	96	15	60	12	90	36	φ11	M8	420
SH50	φ50	70	63	126	120	18	74	13	100	40	φ14	M12	750
SH60	φ60	80	74	148	136	18	90	14	120	45	φ14	M12	1,100

轴支座SHF系列
Slide Support SHF Series



型号 Model	轴径 Shaft Diameter	尺寸 Nominal Dimensions (mm)							安装螺栓型号 Mounting bolt designation	夹紧螺栓型号 Clamping bolt designation	重量 Weight (g)
		L	T	F	B	G	H	S			
SHF10	φ10	43	10	5	32	20	24	5.5	M5	M4	13
SHF12	φ12	47	13	7	36	25	28	5.5	M5	M4	20
SHF13	φ13	47	13	7	36	25	28	5.5	M5	M4	20
SHF16	φ16	50	16	8	40	28	31	5.5	M5	M4	27
SHF20	φ20	60	20	8	48	34	37	7	M6	M5	40
SHF25	φ25	70	25	10	56	40	42	7	M6	M5	60
SHF30	φ30	80	30	12	64	46	50	9	M8	M6	110
SHF35	φ35	92	35	14	72	50	58	12	M10	M8	380
SHF40	φ40	102	40	16	80	56	67	12	M10	M10	510
SHF50	φ50	122	50	19	96	70	83	14	M12	M12	890
SHF60	φ60	140	60	23	112	82	95	14	M12	M12	1,500

直线轴
Slide Shafts



ACME 直线轴是经热处理、磨削和抛光的高精度的产品。为直线轴承配套的直线轴，其直线性、粗糙度、圆柱度、表面质量和硬度是极其重要的。ACME直线轴在制造时围绕以上几点使其在任何工作条件下都能良好的工作。这些直线轴能支撑旋转运动、直线运动和旋转直线复合运动以及单纯的直线运动。

ACME slide shaft is hardened, ground and polished and features high precision quality. Straightness, roughness, cylindricity, surface finish and hardness are very important when used with linear motion slide bearings. ACME slide shafts are manufactured with these points in mind to maintain precision performance under any operating conditions. These slide shafts will satisfactorily support rotary, linear, linear-rotary complex, as well as simple linear motion applications.

材质 Material: GCr15高碳铬钢 High carbon chromium steel
硬度 Hardness: HRC62±2°
表面硬化厚度 Effective Hardening Depth: 0.8~2.5mm
表面粗糙度 Roughness: Ra0.8
直线度 Srtaightness: 50μm /300mm

图(Fig) 直线轴举例
Examples for Shafts

直线轴承SF系列
Slide Shaft SF Series

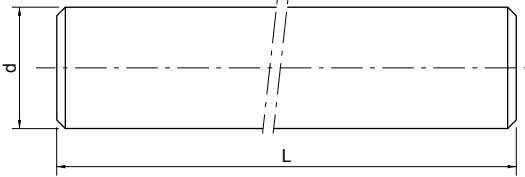
SF...-500L

ACME轴
ACME Diameter

轴径
Shaft Diameter

轴长度
Length of Shaft

SF	直线轴 LINEAR SHAFT
SFC	电镀直线轴 HARD CHROMIC PLATING SHAFT
SSF	不锈钢直线轴 9Cr18 SHAFT
PSF	空心轴 LM PIPE SHAFT



型号 Model	轴径 Shaft Diameter (g6)		尺寸 Dimensions (mm)												
	d (mm)	公差 Tolerance (μm)	100	200	300	400	500	600	700	800	1000	1200	1300	1500	2000
SF6	φ6	-0.004 -0.012	○	○	○	○	◎	-	-	-	-	-	-	-	-
SF8	φ8	-0.005 -0.014	○	○	○	○	◎	-	-	-	-	-	-	-	-
SF10	φ10	-0.006 -0.017	○	○	○	○	○	○	○	○	◎	◎	○	◎	-
SF12	φ12		-	○	○	○	○	○	○	○	◎	◎	○	◎	-
SF13	φ13		-	○	○	○	○	○	○	○	◎	◎	○	◎	-
SF16	φ16	-0.007 -0.020	-	○	○	○	○	○	○	○	◎	◎	○	◎	-
SF20	φ20		-	○	○	○	○	○	○	○	◎	◎	○	◎	◎
SF25	φ25		-	○	○	○	○	○	○	○	◎	◎	○	◎	◎
SF30	φ30	-0.009 -0.025	-	-	○	○	○	○	○	○	◎	◎	○	◎	◎
SF35	φ35		-	-	-	-	○	○	○	○	◎	◎	○	◎	◎
SF40	φ40		-	-	-	-	○	○	○	○	◎	◎	○	◎	◎
SF50	φ50	-0.010 -0.029	-	-	-	-	○	○	○	○	◎	◎	○	◎	◎
SF60	φ60		-	-	-	-	-	-	-	-	◎	◎	○	◎	◎

◎ 标准库存品 Standard Length
○ 标准准库存品 The Length to order

直线轴承代号对照表
Various Countries Bearing Item Numer

亚洲公制 (Used in Asia)

轴承代号 Bearing Code	生产公司 Manufacturer						
LM	中国 (CHINA)			日本 (JAPAN)			南韩 (SOUTH KOREA)
	ACME	太敬	IBI (台湾)	THK	HEPHAIST	IKO	SAMICK
SM				NACHI		NB	意大利 (ITALY)
LB				NSK			
SDM				EASE			
KLM				NTN			

欧洲公制 (Used in Europe)

LME	中国 (CHINA)		日本 (JAPAN)			南韩 (SOUTH KOREA)
	ACME	太敬	THK	HEPHAIST	IKO	SAMICK
KB	德国 (GERMANY)		NACHI	NB		意大利 (ITALY)
	INA					
SDM			EASE			

美洲公制 (Used in US)

LMB	中国 (CHINA)		日本 (JAPAN)			南韩 (SOUTH KOREA)
	ACME	太敬	THK	HEPHAIST	IKO	SAMICK
SW			NACHI	NB		意大利 (ITALY)
SDB			EASE			

公制系列: 国际标准 (ISO10285) 及中国标准 (GB/T16940)
基本代号: LB

轴和孔的配合公差 (公制)
Fitting Tolerances for Shafts and Bore Diameters
(Metric Dimension Series)

公称轴径 Nominal diameter mm		公称轴径 Shaft Diameter Tolerance μ m																支撑孔直径公差 Tolerances for Housing Bore Diameters																								
		f				g				h				js				j				k				H				J				K				M				
		f5	f6	f7		g5	g6	g7		h5	h6	h7	h8	js5	js6	js7		j5	j6	j7		k5	k6	k7		h5	h6	h7	h8	J6	J7	J8	K6	K7	K8	M6	M7	M8				
Over	Incl																																									
-	3	-6	-10	-12	-16	-6	-8	-12	-2	0	-4	-6	-10	-14	±2	±3	±5	-2	+2	+4	+6	+4	+8	+10	0	+4	+6	+10	+14	+2	+4	+6	0	0	0	0	-2	-2	-2	-2	-16	
3	6	-10	-15	-18	-22	-9	-12	-16	-4	0	-5	-8	-12	-18	±25	±4	±5	-2	+3	+6	+8	+6	+9	+13	+5	+8	+12	+18	+5	+6	+10	+2	+3	+5	+1	0	0	0	+2	0	+2	-16
6	10	-6	-19	-22	-28	-11	-14	-20	-5	0	-6	-9	-15	-22	±3	±4.5	±7	-2	+4	+7	+10	+7	+10	+16	+9	+9	+15	+22	+5	+8	+12	+2	+5	+6	+3	0	+1	0	-12	-15	-21	
10	14	-16				-6				0					±4	±5.5	±9	-3	+5	+8	+12	+9	+12	+19	+8	+11	+18		+6	+10	+15	+2	+6	+8	-4	0	-2	0	-2	-25		
14	18	-24	-27	-34		-14	-17	-24	-7		-8	-11	-18	-27																												
18	24	-20								0					±4.5	±6.5	±10	-4	+5	+9	+13	+11	+15	+23	+9	+13	+21	+33	+8	+12	+20	+2	+6	+10	-4	0	-4	0	+4			
24	30	-29	-33	-41		-16	-20	-28	-9	-13	-21	-33																														
30	40	-25				-9				0					±5.5	±8	±12	-5	+6	+11	+15	+13	+18	+27	+11	+16	+25	+39	+10	+14	+24	+3	+7	+12	-4	0	-4	0	+5			
40	50	-36	-41	-50		-20	-25	-34	-11	-16	-25	-39																														
50	65	-30				-10				0					±6.5	±9.5	±15	-7	+6	+12	+18	+15	+21	+32	+13	+19	+30	+46	+13	+18	+28	+4	+9	+14	-5	0	-5	0	+5			
65	80	-43	-49	-60		-23	-29	-40	-13	-19	-30	-46																														
80	100	-36				-12				0					±7.5	±11	±17	-9	+6	+13	+20	+18	+25	+38	+15	+22	+35	+54	+16	+22	+34	+4	+10	+16	-6	0	-6	0	+6			
100	120	-51	-58	-71		-27	-34	-47	-15	-22	-35	-54																														
120	140																																									
140	160	-43				-14				0					±9	±12.5	±20	-11	+7	+14	+22	+21	+28	+43	+18	+25	+40	+63	+18	+26	+41	+4	+12	+20	-8	0	-8	0	+8			
160	180	-61	-68	-83		-32	-39	-54	-18	-25	-40	-63																														

轴和孔的配合公差 (英制)

Fitting Tolerances for Shafts and Bore Diameters
(Inch Dimension Series)

孔公差 Tolerance for Bore

区分 Division	直径 Diameter		H5		H6		H7		H8	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
以上	0.1181	3	+0.0002	+0.005	+0.0003	+0.008	+0.0005	+0.012	+0.0007	+0.018
以下	0.2362	6	0	0	0	0	0	0	0	0
以上	0.2362	6	+0.0002	+0.006	+0.0003	+0.009	+0.0006	+0.015	+0.0008	+0.022
以下	0.3937	10	0	0	0	0	0	0	0	0
以上	0.3937	10	+0.0003	+0.008	+0.0004	+0.011	+0.0007	+0.018	+0.0010	+0.027
以下	0.7087	18	0	0	0	0	0	0	0	0
以上	0.7087	18	+0.0003	+0.009	+0.0005	+0.013	+0.0008	+0.021	+0.0013	+0.033
以下	1.1811	30	0	0	0	0	0	0	0	0
以上	1.1811	30	+0.0004	+0.011	+0.0006	+0.016	+0.0009	+0.025	+0.0015	+0.039
以下	1.9685	50	0	0	0	0	0	0	0	0
以上	1.9685	50	+0.0005	+0.013	+0.0007	+0.019	+0.0011	+0.030	+0.0018	+0.046
以下	3.1496	80	0	0	0	0	0	0	0	0
以上	3.1496	80	+0.0005	+0.015	+0.0008	+0.022	+0.0013	+0.035	+0.0021	+0.054
以下	4.7244	120	0	0	0	0	0	0	0	0

轴公差 Tolerance for shaft

区分 Division	直径 Diameter		g5		g6		g7		H5		H6		H7	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
以上	0.1181	3	-0.0001	-0.004	-0.0001	-0.004	-0.0001	-0.004	0	0	0	0	0	0
以下	0.2362	6	-0.0003	-0.009	-0.0004	-0.012	-0.0006	-0.016	-0.0002	-0.005	-0.0003	-0.008	-0.0004	-0.012
以上	0.2362	6	-0.0002	-0.005	-0.0002	-0.005	-0.0002	-0.005	0	0	0	0	0	0
以下	0.3937	10	-0.0004	-0.011	-0.0005	-0.014	-0.0007	-0.020	-0.0002	-0.006	-0.0003	-0.009	-0.0006	-0.015
以上	0.3937	10	-0.0002	-0.006	-0.0002	-0.006	-0.0002	-0.006	0	0	0	0	0	0
以下	0.7087	18	-0.0005	-0.014	-0.0006	-0.017	-0.0009	-0.024	-0.0003	-0.008	-0.0004	-0.011	-0.0007	-0.018
以上	0.7087	18	-0.0002	-0.007	-0.0002	-0.007	-0.0002	-0.007	0	0	0	0	0	0
以下	1.1811	30	-0.0006	-0.016	-0.0007	-0.020	-0.0011	-0.028	-0.0003	-0.009	-0.0005	-0.013	-0.0008	-0.021
以上	1.1811	30	-0.0003	-0.009	-0.0003	-0.009	-0.0003	-0.009	0	0	0	0	0	0
以下	1.9685	50	-0.0007	-0.020	-0.0009	-0.025	-0.0013	-0.034	-0.0004	-0.011	-0.0006	-0.016	-0.0009	-0.025
以上	1.9685	50	-0.0004	-0.010	-0.0004	-0.010	-0.0004	-0.010	0	0	0	0	0	0
以下	3.1496	80	-0.0009	-0.023	-0.0011	-0.029	-0.0015	-0.040	-0.0005	-0.013	-0.0007	-0.019	-0.0011	-0.030
以上	3.1496	80	-0.0004	-0.012	-0.0004	-0.012	-0.0004	-0.012	0	0	0	0	0	0
以下	4.7244	120	-0.0010	-0.027	-0.0013	-0.034	-0.0018	-0.047	-0.0006	-0.015	-0.0008	-0.022	-0.0013	-0.035