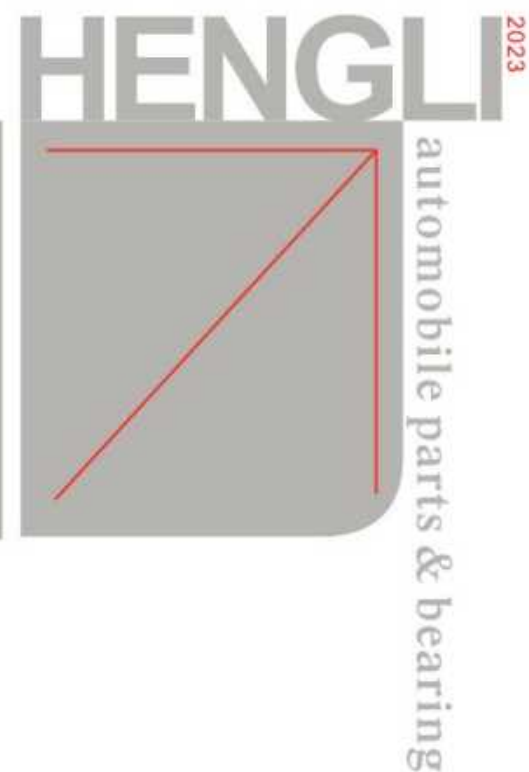




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宁波恒力汽配轴承有限公司

NINGBO HENGLI AUTOMOBILE PARTS & BEARING CO.,LTD.

让直线轴承无忧运行



B 公司简介 Brief introduction

宁波恒力汽配轴承有限公司位于中国黄金海岸线上的港口城市——宁波市，是一家专业生产直线运动球轴承和相关直线运动系列产品的企业，公司本着“以精立业，以质取胜，创恒力品牌，保用户满意”为企业精神，全面推行现代化管理模式。

为追求更高品质要求，严格按公司质量方针“让直线轴承无忧运行”的目标贯彻实施，并通过了ISO9001:2015质量管理体系认证，使企业的质量管理走上了规范化、程序化、文件化的轨道。同时公司不断引进先进的自动化专用制造设备和高精度轴承检测仪器，广纳轴承行业的专业技术人才，致力于新产品开发研制，从而形成了从设计制造到开发服务的完整生产经营体系，在国内同行业中质量处于领先地位。目前已成为中国专业生产直线运动球轴承的主要企业，拥有多项国家专利。

Located in the economy developed coastal city of Ningbo, Ningbo Hengli Automobile Parts and Bearings Co., Ltd. is an enterprise specializing in the production of linear ball bearings and related linear-movement product series. The company practices modern corporate management practices in all respects with a corporate spirit of sophisticated technology, excellent quality, establishing brand and ensuring customer satisfaction.

To pursue higher quality, the company strictly implements the quality strategy of producing trouble-free linear bearings. It has obtained ISO9001:2015 quality system certification so that the corporate quality management is guided to a standard, systematic and documented operation track. Meanwhile, the company constantly introduces advanced automatic manufacturing equipment and test apparatus for high-precision bearings. Professionals and technicians in the bearing industry are attracted to work on the research and development of new products. As a result, the company has developed a complete production and management system encompassing design, manufacturing developing and serving and takes a leading position among domestic peers in terms of quality. Currently, the company is a major manufacturer of linear ball bearings in China.





LM...S — P13



LM...M — P14



LMF...M — P15



TRKPC — P21



TRTPC — P21



TLM — P23



LMK...M — P15



LMT...M — P15



TRF — P17



TLM...L — P24



TLMF — P25



TLMK — P25



TRK — P17



TRT — P17



TRFP — P19



TLMT — P25



TLMT — P25



LM-MX — P27



TRKP — P19



TRTP — P19



TRFPC — P21



LM...L-MX — P28



LMF-MX — P29



LMK-MX — P29



LMT-MX — P29



LMF...L-MX — P31



LMK...L-MX — P31



LMT...L-MX — P37



LM — P41
KB — P43
SW — P45



LM...AJ — P41
KB...AJ — P43
SW...AJ — P45



LMT...L-MX — P31



LMFP-MX — P33



LMKP-MX — P33



LM...OP — P41
KB...OP — P43
SW...OP — P45



LM...L — P47
KB...L — P48
SW...L — P49



KH — P50



LMTP-MX — P33



LMFP...L-MX — P35



LMKP...L-MX — P35



LMF — P54
KBF — P58
SWF — P59



LMK — P54
KBK — P58
SWK — P59



LMT — P56



LMTP...L-MX — P35



LMFC...L-MX — P37



LMKC...L-MX — P37



LMFP — P55



LMKP — P55



LMTP — P57



LMF...L — P60
KBF...L — P66
SWF...L — P68



LMK...L — P60
KBK...L — P66
SWK...L — P68



LMT...L — P63



KBSB...AJ — P79



KBB — P77



KBB...AJ — P77



LMFP...L — P61



LMKP...L — P61



LMFC...L — P62
KBFC...L — P67
SWFC...L — P69



KBB...OP — P78



SMA...S — P71
KBA...S — P71



SMA...L — P72
KBA...L — P72



LMKC...L — P62
KBKC...L — P67
SWKC...L — P69



LMTP...L — P64



LMTC...L — P65



SME — P75
KBE — P75



TBR — P74



SME...L — P76



SMA — P70
KBA — P73



SMA...AJ — P70
KBA...AJ — P73



KBSB — P79



SWA — P80



SWA...L — P81



SWB — P82



SWB...L — P83



SWB...OP — P84



SWB...L-OP — P85



钢保持器 LM(m) — P41
KB(m) — P43
SW(m) — P45



钢保持器 LM(m)...AJ — P41
KB(m)...AJ — P43
SW(m)...AJ — P45



钢保持器 LM(m)...OP — P41
KB(m)...OP — P43
SW(m)...OP — P45



SWD — P86



SWD...L — P87



SK — P88
PA — P89
SKW — P90



PLM...自润轴承
尺寸同LM



PLMF...自润法兰轴承
尺寸同LMF



HLH...B — P98
HLH...BL — P98



SHF — P91



S — P92
SI — P92



SP — P93



HLH...D — P100
HLH...DL — P100



HLH...A — P97
HLH...AL — P97



HLH...C — P99
HLH...CL — P99



SBR — P94
STBR — P95
SBR...B — P95
SRA — P96



SLM — P51
SKB — P52
SSW — P53



SLM...OP — P51
SKB...OP — P52
SSW...OP — P53



SF — P101
SFM — P101



BF — P102



BK — P103



直线运动产品的选择和使用

直线轴承的套圈（除KH系列）和钢球有GCr15(SUJ2)轴承钢和9Cr18(SUS440C)不锈钢二种材质；保持器有 POM工程塑料、低碳钢、不锈钢三种材质；密封圈由NBR丁腈橡胶制成；无密封之铁盖有65Mn弹簧钢和不锈钢二种材质；KH系列套圈由低碳钢经碳氮共渗制成。

直线轴由GCr15 (SUJ2) 轴承钢制成，根据客户需要也可制作碳钢和不锈钢直线轴。

轴承座、轴支撑座和轴支轨由拉伸铝合金制成。

自润轴承内装黄铜衬套，衬套上镶嵌(或涂覆)固体润滑材料，在无油状态下使用，尺寸可直接和直线轴承互换。

恒力自动化模组（滑台）可按客户需要制作，导轨有圆轴导轨、直线导轨二种形式；传动有滚珠丝杠，同步带二种形式，可任意组合，按不同需求可配置步进（伺服）电机、电机控制器（控制卡）和数控装置。

直线轴承选择：POM工程塑料保持器适用于-20℃~80℃工作温度；钢保持器适用于-40℃~125℃工作温度；不锈钢轴承适合于水、蒸气、硝酸等腐蚀介质及真空工作场合，轴承型号按下述计算公式确定。

直线轴承安装：轴承座孔公差推荐采用 H7、J7 级，直线轴公差推荐采用g6、h6级，轴承安装必须用台阶芯轴压入（恒力法兰轴承法兰焊接强度全部经过 200 公斤油压测试，但猛力敲击法兰会造成法兰碎裂或脱焊）；直线轴安装必须对准轴承孔插入，动作轻缓，轴倾斜插入会导至保持器变形和钢球脱落，轴承安装方向应按照表1 所示，可以提高轴承承载能力，延长寿命。轴承座孔有可能压缩轴承，引起游隙变小，此时用手转动直线轴，如果轴能接触钢球且能轻松转动，配合游隙为0~+0.01mm；如果稍加力才能转动，配合游隙为-0.01~0mm（已过盈）；如果加力也不能转动，配合游隙已多于0.01mm.这种情况钢球滚动时可能同时作滑动，会降低轴承和轴的使用寿命，只有在轻载、低速且定心要求高的情况下才可采用。

调整型、开口型轴承内、外径在割口前测量，割口后会有一些弹性变形，配合游隙应装入轴承座内测量（钢保持器轴承、KH轴承情况类似）。游隙可调节的轴承座调节方向应和轴承割口方向垂直以保证游隙均匀，直线轴承结构特点不能作旋转运动，同时要求有良好的导向性，所以直线轴承一般以二根轴+四套轴承或二根轴+二套加长型轴承为一个组合使用，二根轴安装要平直，整个组合装配后，用手推拉必须灵活无阻滞才可安装传动机构，传动动力要足够克服轴承磨擦阻力，直线轴承磨擦阻力近似为千分之一工作载荷。

直线轴承润滑和防尘：轴承出厂涂有防锈油，使用时需加润滑剂。油脂润滑噪音较低，常用的有2号锂基脂和低噪音轴承润滑脂，填脂前用煤油、汽油或其它有机溶剂清除防锈油，干燥后涂抹（直接填脂会使油脂损耗过快），填脂量为保持器空隙的三分之一。油润滑不需清除防锈油，根据工作温度采用15#~100#润滑油，工作温度低采用低粘度油，工作温度高采用高粘度油，常用的有透平油，机械油和锭子油，无密封轴承把油滴在轴上即可，带密封轴承需把油加到轴承内，恒力公司为用户准备了带油孔的轴承和轴承座。对于一些不允许有油（脂）的工作场所，先清除防锈油，干燥后在每列钢球上喷一些市售的二硫化钼喷剂，再次干燥后即可使用。带密封轴承应避免密封圈和轴干摩擦引起密封圈唇口挤入轴承内，造成轴承的非预期损坏。

铁屑会极大地降低轴承寿命，粉尘和脏物会阻塞保持器球道，使钢球不能回转，引起保持器破损、钢球挤脱。带密封轴承可用于一般带粉尘工作场所，像木工机械、铸造机械等多粉尘场合，请在轴承两端另加密封，防止粉尘进入并可减少油脂损耗。

轴承的载荷和寿命：轴承运动和换向时承受过大的冲击负荷，或当轴承静止时，由于机器振动等因素都会使接触处形成凹坑。外界硬粒进入轴承内，也可在接触表面形成压痕，这种永久变形量超过一定限度，就会妨碍直线运动平稳性，引起振动和噪音，振动会进一步冲击凹坑周围材料，造成恶性循环，使凹坑面积扩大，这种永久变形量用基本额定静载荷限定。钢球和套圈接触点两者永久变形量之和等于钢球直径的万分之一的静载荷，定义为基本额定静载荷 C_0 。

轴承使用时，冲击力很难测定，常用选取适当的静载荷安全系统来保证轴承静载荷不超过基本额定静载荷。选型时使轴承承受的静载荷 $P_0 \leq C_0 / F_s$ ，不受振动和冲击工作场合 F_s 取1.0~1.5，受振动和冲击工作场合 F_s 取2.0~7.0。

轴承由于反复承受工作载荷，首先在表面下一定深度处，强度较弱部分形成裂纹，继而发展到接触表面，使金属成片状剥落下来，这种剥落称为疲劳剥落。在安装、润滑、密封正常的情况下，绝大多数轴承的破坏是疲劳破坏，一般所说的轴承寿命就是指轴承的疲劳寿命。直线轴承额定寿命规定为5万米，通过限定基本额定动载荷C来保证。由于轴承寿命具有分散性，即同一批材料、相同工艺生产、相同使用条件下的轴承寿命不相同，所以轴承基本额定动载荷C定义为一批相同的轴承在相同条件下运行5万米，轴承不发生任何疲劳剥落现象所能承受的动载荷。

轴承使用寿命计算：

$$\text{长度寿命 } L = 5 \cdot \left[\left(\frac{F_H \cdot F_T \cdot F_C}{F_W} \right) \cdot \left(\frac{C}{P_C} \right) \right]^{\frac{1}{3}} \quad (\text{单位：10Km万米})$$

基本额定动载荷C（单位：kg公斤）：

工作行程短于轴承长度1.5倍时，轴承寿命比轴承寿命短，当行程为0.2~1.5倍轴承长度时，额定动载荷按原来的0.4~1.0倍计算。开口型轴承侧面受力(侧装)和承受开口方向力(倒装)时额定动载荷按原来的三分之一计算。

工作载荷 P_C （单位：kg公斤），计算方法见表2。

C/P_C 称为载荷比。

硬度系数 F_H ：硬度HRC58以上， $F_H=1.0$ ；硬度HRC52~58， $F_H=0.6 \sim 1.0$ 。

温度系数 F_T ：工作温度小于100℃， $F_T=1.0$ ；工作温度100℃~125℃， $F_T=1.0 \sim 0.95$ 。

接触系数 F_C ：

每根轴装一套轴承， $F_C=1.0$

每根轴装二套轴承， $F_C=0.81$

每根轴装三套轴承， $F_C=0.72$

每根轴装四套轴承， $F_C=0.66$

载荷系数 F_W ：

运行速度小于15米/分钟，无冲击、无振动， $F_W=1.0 \sim 1.5$ 。

运行速度小于60米/分钟，微小冲击或振动， $F_W=1.5 \sim 2.0$ 。

运行速度大于60米/分钟，或有较大冲击、振动， $F_W=2.0 \sim 5.0$ 。

时间寿命 $L_h = \left(10000 \cdot L \right) / \left(2 \cdot L_s \cdot n_1 \cdot 60 \right)$ （单位：h/小时）

L ：长度寿命（万米），

L_s ：工作行程（米），

n_1 ：每分钟往复次数。



轴承型号选择举例:

某机器采用二轴+四轴承结构,行程 $L_s=0.2$ 米,工作温度 60°C ,每分钟往复次数 $n_1=20$,微小冲击,轴承工作载荷 $P_c=12$ 公斤,硬度大于HRC60,期望寿命 $L_h=5000$ 小时,试选择轴承型号。

按以上工作条件:

$$F_H=1.0, F_T=1.0, F_C=0.81$$

运行速度 $V=2 \times 0.2 \times 20=8$ (米/分钟),微小冲击,取 $F_W=1.6$

$$\text{时间寿命 } L_h = (10000 \cdot L) / (2 \cdot L_s \cdot n_1 \cdot 60) = (10000 \cdot L) / (2 \cdot 0.2 \cdot 20 \cdot 60) = 20.83 \cdot L = 5000 \text{ (小时)}$$

计算得:长度寿命 $L=240$ 万米。

$$L = 5 \cdot [(F_H \cdot F_T \cdot F_C / F_W) \cdot (C / P_c)]^3 = 5 \cdot [(1.0 \cdot 1.0 \cdot 0.81 / 1.6) \cdot (C / 12)]^3 = 240$$

计算得: $C=86.5$ 公斤,查表选择LM20轴承, $C=88$ 公斤。

按表三校核轴挠度,如果不能满足机器刚性要求,应选择更大规格轴承或采用带轴支轨结构。

直线轴承相关标准:

国际标准:

ISO10285: 2007《Rolling bearings,linear motion,recirculating ball,sleeve type-Metric series》

ISO14728-1:2004《Rolling bearings,linear motion rolling bearings-part 1:Dynamic load ratings and rating life》

ISO14728-2:2004《Rolling bearings,linear motion rolling bearings-part 2:Static load ratings》

国家标准:

GB/T16940-1997《直线运动支承、直线运动球轴承-外形尺寸和公差》(等效于ISO10285:1992)

机械行业标准:

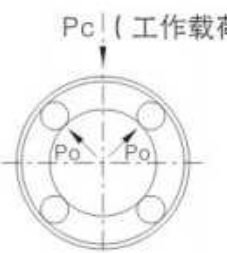
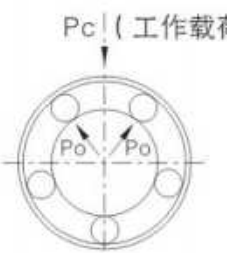
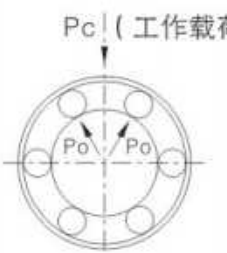
JB/T5388-1999《直线运动球轴承 技术条件》

恒力企业标准:

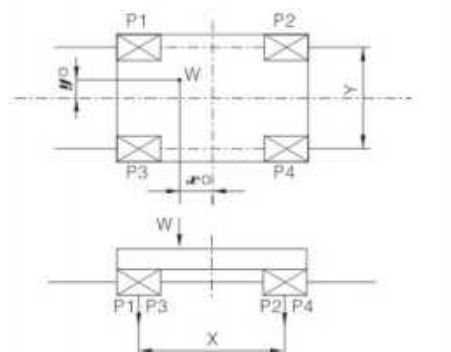
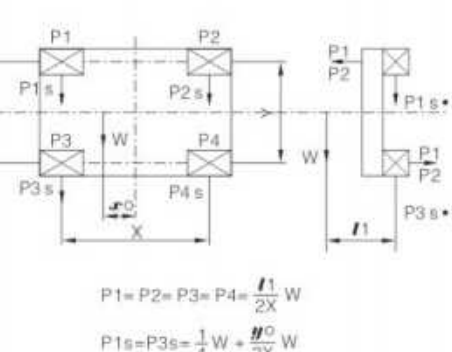
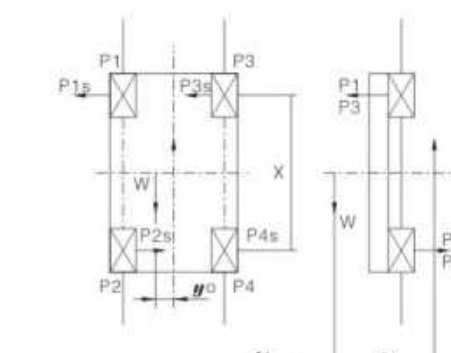
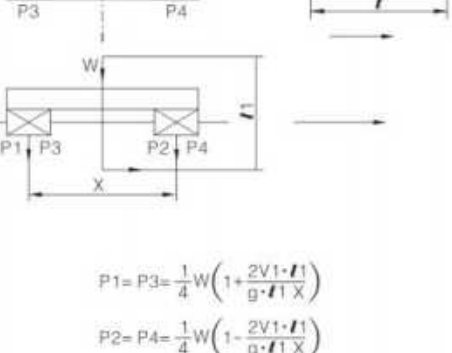
Q/HL403-2000《直线运动球轴承 磨加工技术条件》

Q/HL404-2000《直线运动球轴承 车加工技术条件》

表一 轴承安装方向

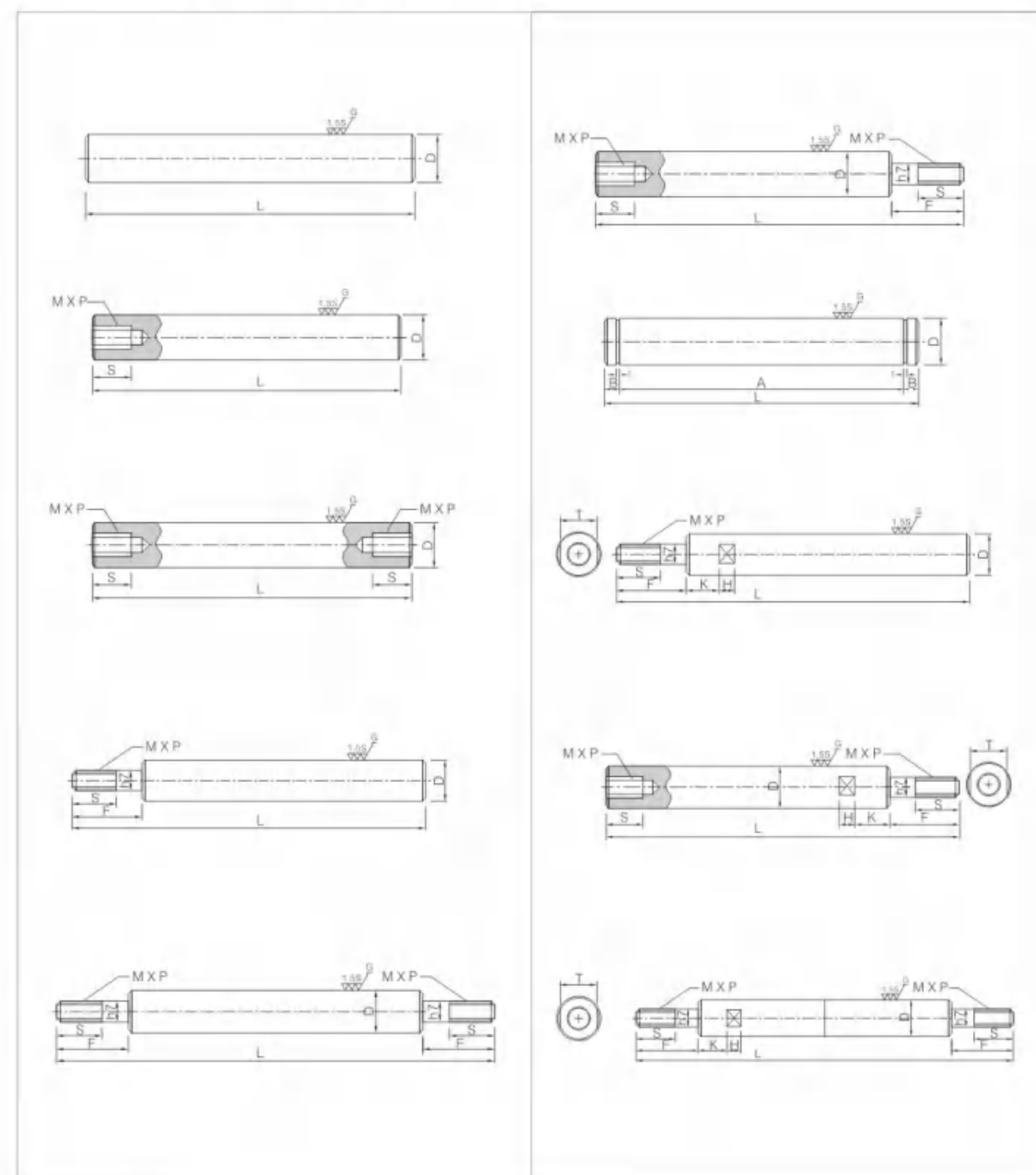
 钢球受力 $P_o=0.71P_c$	 钢球受力 $P_o=0.62P_c$	 钢球受力 $P_o=0.58P_c$
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表二 工作载荷计算

型号 Type	运转条件 Operating conditions	型号 Type	运转条件 Operating conditions
1	 $P_1 = \frac{1}{4}W + \frac{x_0}{2X}W + \frac{y_0}{2Y}W$ $P_2 = \frac{1}{4}W - \frac{x_0}{2X}W + \frac{y_0}{2Y}W$ $P_3 = \frac{1}{4}W + \frac{x_0}{2X}W - \frac{y_0}{2Y}W$ $P_4 = \frac{1}{4}W - \frac{x_0}{2X}W - \frac{y_0}{2Y}W$	3	 $P_1 = P_2 = P_3 = P_4 = \frac{l_1}{2X}W$ $P_{1s} = P_{3s} = \frac{1}{4}W + \frac{y_0}{2X}W$ $P_{2s} = P_{4s} = \frac{1}{4}W - \frac{y_0}{2X}W$
2	 $P_1 = P_2 = P_3 = P_4 = \frac{l_1}{2X}W$ $P_{1s} = P_{2s} = P_{3s} = P_{4s} = \frac{y_0}{2X}W$	4	 $P_1 = P_3 = \frac{1}{4}W \left(1 + \frac{2V_1 \cdot l_1}{g \cdot l_1 X} \right)$ $P_2 = P_4 = \frac{1}{4}W \left(1 - \frac{2V_1 \cdot l_1}{g \cdot l_1 X} \right)$ $P_1 = P_3 = \frac{1}{4}W \left(1 - \frac{2V_1 \cdot l_1}{g \cdot l_3 X} \right)$ $P_2 = P_4 = \frac{1}{4}W \left(1 + \frac{2V_1 \cdot l_1}{g \cdot l_3 X} \right)$ $P_1 = P_2 = P_3 = P_4 = \frac{1}{4}W$ $g=9.8 \times 10^{-3} \text{ mm/sec}^2$



表三 轴心加工图范例



另可依图面代客加工

Load Rating

Basic Dynamic Load Rating (c)

This term is arrived at based on an evaluation of a number of identical linear systems individually run in the same conditions, if 90% of them can run with the load (with a constant value in a constant direction) for a distance of 50 km without damage caused by rolling fatigue. This is the basis of the rating.

Allowable Static Moment (M)

This term defines the allowable limit value of static moment load, with reference to the amount of permanent deformation similar to that used for evaluation of basic rated load (Co).

Static Safety Factor (fs)

This factor is used based on the application condition as shown in Table 1.

Rating Life

Rating Life of the Linear System

As long as the linear system reciprocates while being loaded, continuous stress acts on the linear system to cause flaking on the rolling bodies and planes because of material fatigue.

The travelling distance of linear system until the first flaking occurs is called the life of the system. The life of the system varies even for the system of the same dimensions, structure, material, heat treatment and processing method, when used in the same conditions. This variation is brought about from the essential variations in the material fatigue itself, the rating life defined below is used as an index for the life expectancy of the linear system.

Rating Life (L)

Rating life is the total travelling distance that 90% of a group of systems of the same size can reach without causing any flaking when they operate under the same conditions.

The rating life can be obtained from the following equation with the basic dynamic load rating and the load on the linear system:

$$\text{For ball type: } L = \left(\frac{C}{P} \right)^3 \cdot 50 \quad (1)$$

L: Rating life (km) C: Basic dynamic load rating (N)
P: Load (N)

Basic Static Load Rating (Co)

This term defines a static load such that, at the contacting position where the maximum stress is exercised, the sum of the permanent deformation of the rolling elements and that of the rolling plane is 0.0001 time of the diameter of the rolling elements.

Table 1. Static Safety Factors

Condition of use	Low limit of fs
When the shaft has less deflection and shock	1 to 2
When elastic deformation should be considered with respect to pinch load	2 to 4
When the equipment is subject to vibration and impacts	3 to 5

Consideration and influence of vibration impact loads and distribution of load should be taken into account when designing a linear motion system. It is difficult to calculate the actual load. The rating life is also affected by the operating temperature. In these conditions, the expression (1) is arranged as follows:

$$\text{For ball type: } L = \left(\frac{f_H \cdot f_T \cdot f_C \cdot C}{f_W \cdot P} \right)^3 \cdot 50$$

L: Rating life (km) f_H: Hardness factor (See Fig.1)
C: Basic dynamic load rating (N)
f_T: Temperature coefficient (See Fig.2) P: Load (N)
f_C: Contact coefficient (See Table 2)
f_W: Load coefficient (See Table 3)

The rating life in hours can be calculated by obtaining the travelling distance per unit time. The rating life in hours can be obtained from the following expression when the stroke length and the number of strokes are constant:

$$L_h = \frac{L \cdot 10^3}{2 \ell_s \cdot n_1 \cdot 60}$$

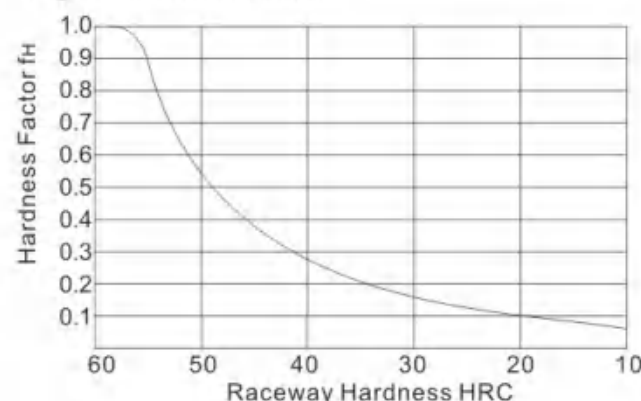
L_h: Rating life in hours (hr)
ℓ_s: Stroke length (m)
L: Rating life (km)
n₁: No. of strokes per minute (cpm)



Hardness Factor (fH)

The shaft must be sufficiently hardened when a linear bushing is used. If not properly hardened, permissible load is lowered and the life of the bushing will be shortened.

Fig. 1 Hardness Factor



Temperature Coefficient (fT)

If the temperature of the linear system exceeds 100°C, hardness of the linear system and the shaft lowers to decrease the permissible load compared to that of the linear system used at room temperature. As a result, the abnormal temperature rise shortens the rating life.

Fig. 2 Temperature Coefficient

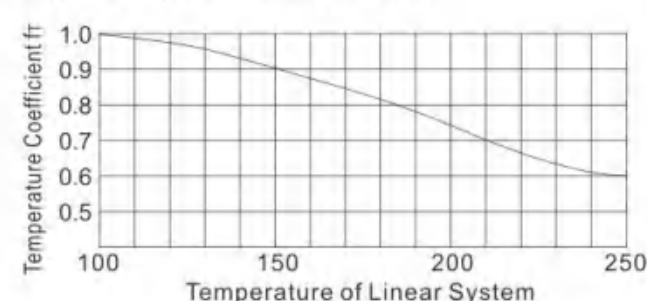


Table 2 Contact Coefficient

Number of linear systems per shaft	Contact coefficient f _c
1	1.00
2	0.81
3	0.72
4	0.66
5	0.61

Contact Coefficient (f_c)

Generally two or more linear bushings are used on one shaft. Thus, the load on each linear system differs depending on each processing accuracy. Because the linear bushings are not loaded equally, the number of linear bushing per shaft changes the permissible load of the system.

Load Coefficient (f_w)

When calculating the load on the linear system, it is necessary to accurately obtain object weight, inertial force based on motion speed, moment load, and each transition as time passes. However, it is difficult to calculate those values accurately because reciprocating motion involves the repetition of start and stop as well as vibration and impact. A more practical approach is to obtain the load coefficient by taking the actual operating conditions into account.

Table 3 Load Coefficient

Operating Conditions	F _w
Operation at low speed (15m/min. or less) without impulsive shock from outside	1.0 to 1.5
Operation at intermediate speed (60m/min. or less) without impulsive shock	1.5 to 2.0
Operation at high speed (over 60m/min.) With impulsive shock from outside	2.0 to 3.5

Frictional Resistance

The static frictional resistance of the HL linear system is so low as to be only slightly different from the kinetic frictional resistance, enabling smooth linear movement from low to high speeds. In general, the frictional resistance is expressed by the following equation.

$$F = \mu \cdot W + f$$

F: Frictional resistance
W: Load weight
 μ : Coefficient of friction
f: Sealing resistance

The frictional resistance of each HL linear system depends on the model, load weight, speed, and lubricant. The sealing resistance depends on the lip interference and lubricant.

Ambient Working Temperature

The ambient working temperature range for each HL linear system depends on the model. Consult HL on use outside the recommended temperature range.

Temperature conversion equation

$$C = \frac{5}{9}(F - 32)$$

$$F = 32 + \frac{9}{5}C$$

Lubrication and Dust Prevention

Using HL linear system without lubrication increases the abrasion of the rolling elements, shortening the life span. The HL linear systems therefore require appropriate lubrication. For lubrication HL recommends turbine oil conforming to ISO Standards G32 to G68 or lithium base soap grease NO.2. Some HL linear systems are sealed to block dust out and seal lubricant in. If used in a harsh or corrosive environment, however, apply a protective cover to the part involving linear motion.

The frictional resistance of each HL linear system depends on the model, load weight, speed, and lubricant. The sealing resistance depends on the lip interference and lubricant, regardless of the load weight. The sealing resistance of one linear system is about 200 to 500 gf. The coefficient of friction depends on the load weight moment load, and preload. Table 6 shows the coefficient of kinetic friction of each type of linear system which has been installed and lubricated properly and applied with normal load (p/c=0.2)

Table 5 Coefficient of Linear System Friction (μ)

Linear System Type	Models	Coefficient of Friction (μ)
Linear Bushing	LM KB SW	0.002 to 0.003

Table 6 Ambient Working Temperature

Linear System Type	Models	Ambient Working Temperature
Linear Bushing	LM KB SW	-20 to 80 °C
Linear Bushing	LM(m) KB(m) SW(m)	-20 to 120 °C



Tolerance

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.

Load Rating and life Expectancy

The lift (L) of a linear bushing can be obtained from the following equation with the basic dynamic load rating and the load applied to the 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: Rated life(km)
C: Basic dynamic load rating(N)
P: Working load(N)
f_w: Load coefficient
f_H: Hardness factor(See page5)
f_T: Temperature coefficient(See page5)
f_C: Contact coefficient(See page5)

Relation between ball Circuits and load rating

The HL linear bushing includes ball circuits that are spaced equally and circumferentially. The load rating varies according to the loaded position on the circumference.

The lifespan (L_n) of a linear bushing in hours can be obtained by calculating the traveling distance per unit time.

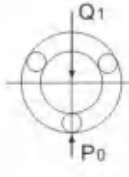
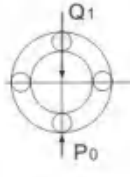
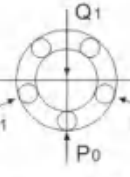
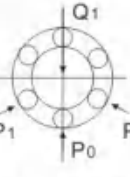
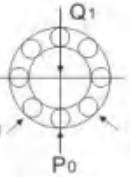
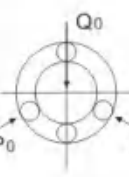
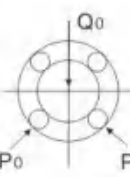
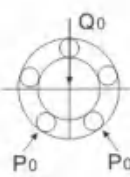
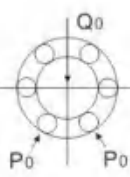
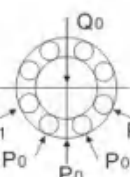
The lifespan can be obtained from the following equation if the stroke length and the number of strokes are constant:

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

L_n: Lifespan(hr)
L: Rated life(km)
S: Stroke length(m)
n₁: Number of strokes per minute(cpm)

The value the dimension table indicates the load rating when the load is placed on top of one ball circuit. If the HL linear bushing is used while 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.

Table1

Row position load ratio	Number of rows	3	4	5	6	8
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
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
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

Sample Calculations

1. Obtaining the rated life L and lifespan L_n of the HL linear bushing used in following conditions:

Linear bushing : LM 20
Stroke length: 50mm
Number of strokes per minute: 50cpm
Load per bush: 490N

The basic dynamic load rating of the linear bushing is 882N from the dimension table. From equation (1), therefore, the rated life L is obtained as follows:

$$L = \left(\frac{f_H \cdot f_T \cdot f_C}{f_W} \cdot \frac{C}{P} \right)^3 \cdot 50 \quad f_H = f_T = f_C = f_W = 1.0$$

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

From equation (2), the lifespan L_n is obtained as follows:

$$L_h = \frac{L \cdot 10^3}{2 \cdot s \cdot n_1 \cdot 60} = \frac{292 \cdot 10^3}{2 \cdot 0.05 \cdot 50 \cdot 60} = 973 \text{ hr}$$

2. Selecting the linear bushing type satisfying the following conditions:

Number of linear bushing used: 4
Stroke length: 1m
Traveling speed: 10m/min
Number of strokes per minute: 5cpm
Lifespan: 10,000hr
Total load: 980N

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

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

From equation (2), the basic dynamic load rating is obtained as follows:

$$C = \sqrt[3]{\frac{882}{490} \cdot \left(\frac{f_W}{f_H \cdot f_T \cdot f_C} \right) \cdot P} = 1492 \text{ N}$$

Assume the following with a pair of shafts each with two linear bushing:

f_C=0.81, f_w=f_t=f_H=1

As a result, LM30 is selected from the dimension table as the HL linear bushing type satisfying the value of C

Clearance and Fit

When a standard-type HL linear bushing is used with a shaft, inadequate clearance, adjustment may cause early bush failure and/or poor, rough travelling. The 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:

Division		Shaft		Housing	
		Normal fit	Transitional	Loose fit	Tight fit
LM	High class	g6	h6	H7	J7
KB	High class	h6	j6	H7	J7

Note: The clearance may be zero or negative. Please attention the movement



Shaft and Housing

To optimize performance of the HL linear bushing high precision of the shaft and housing is required.

1. Shaft

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

- 1) Since the surface finish critically affects smooth rolling of balls; grind the shaft at 1.5S or better
- 2) The nest 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, hardness over HRC 64 accelerates ball wear.
- 3) The shaft diameter for the clearance adjustable linear bush and open linear 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) 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.

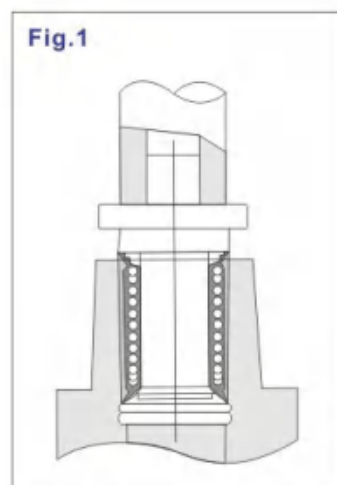
2. Housing

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

Mounting

When inserting the linear bush into the housing, do not hit the linear bush on the side ring holding the retainer but apply the cylinder circumference with a proper jig and push the linear 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 setting the shafts.



Examples of Mounting

The popular way to mount a linear 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

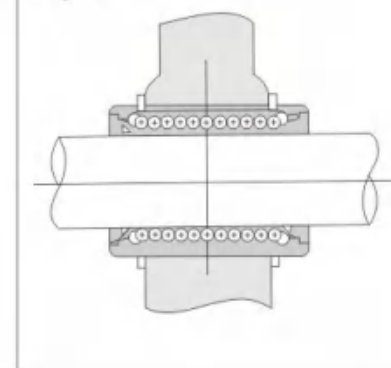


Fig.4

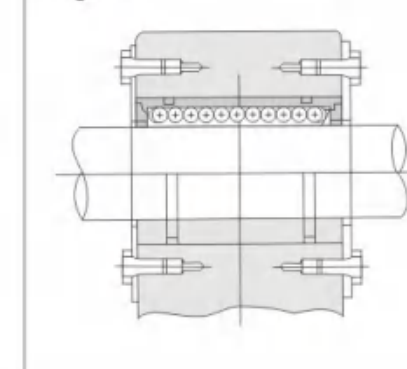


Fig.3

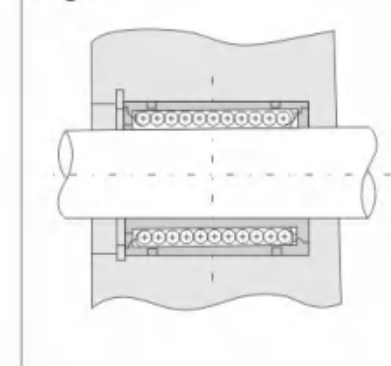


Fig.5

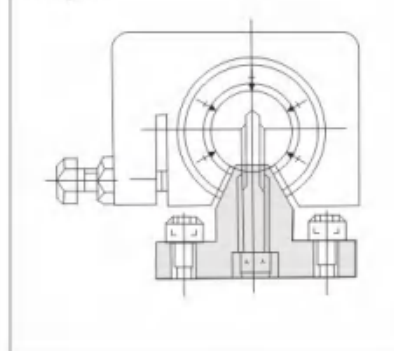
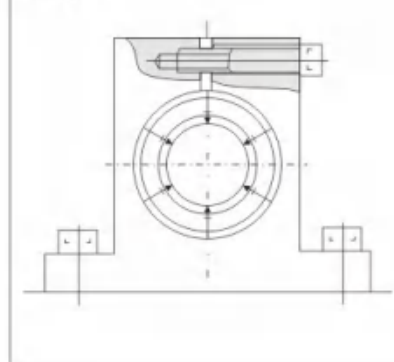
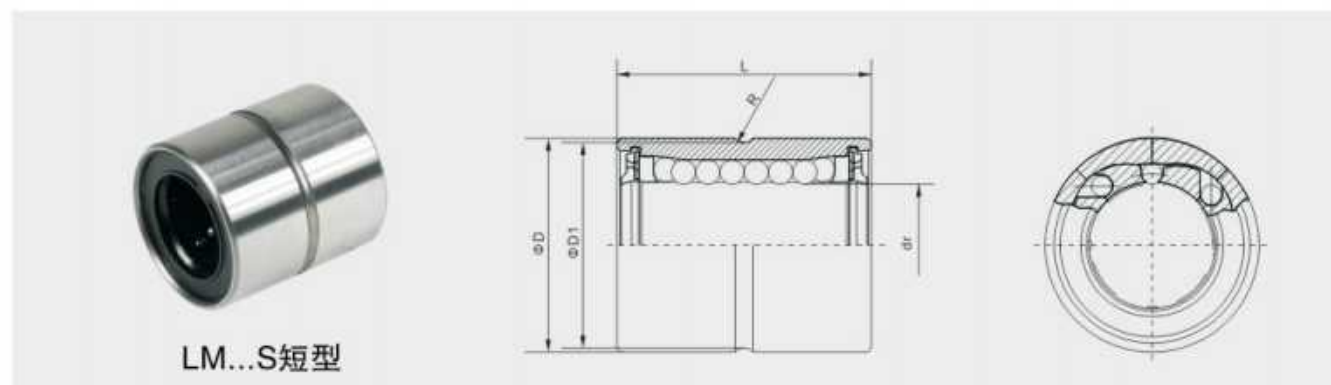


Fig.6



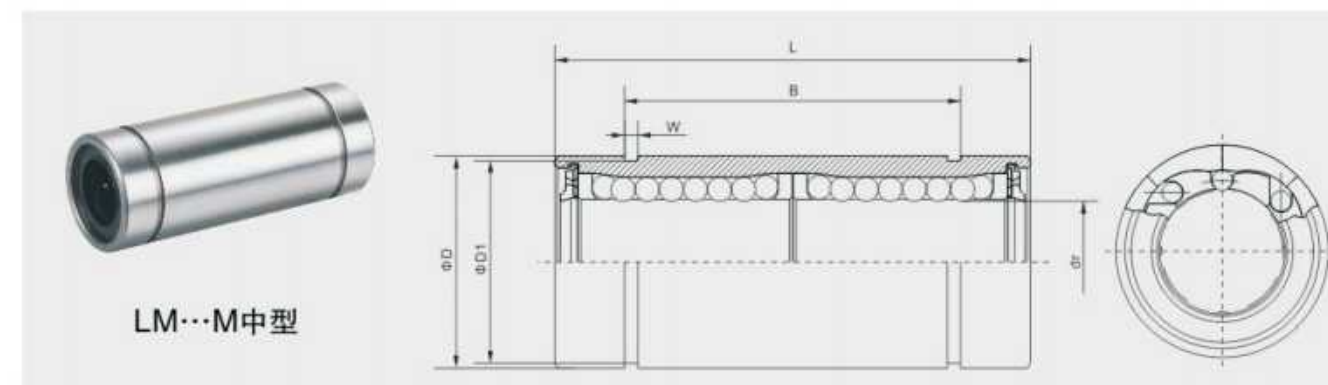
LM...S短型(Short)直线轴承
LM...S short type Linear bearing



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS							径向跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		D1		R			
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE						
LM06S	4	6	0 -0.009	12	0 -0.011	16	0 -0.2	11.4	1	0.012	11	16	6.6
LM08S20		8		15		20		14.4			16	23	14.7
LM10S		10		19		25		18.2			1.2	26	36
LM12S		12		21	0 -0.013			20.2	32			41	28.6
LM13S		13		23				22.2	33			42	36.3
LM16S		5		16		28		30	27		1.5	59	74
LM20S	20		0 -0.011	32	0 -0.016	35		31	0.015	79		105	81.6

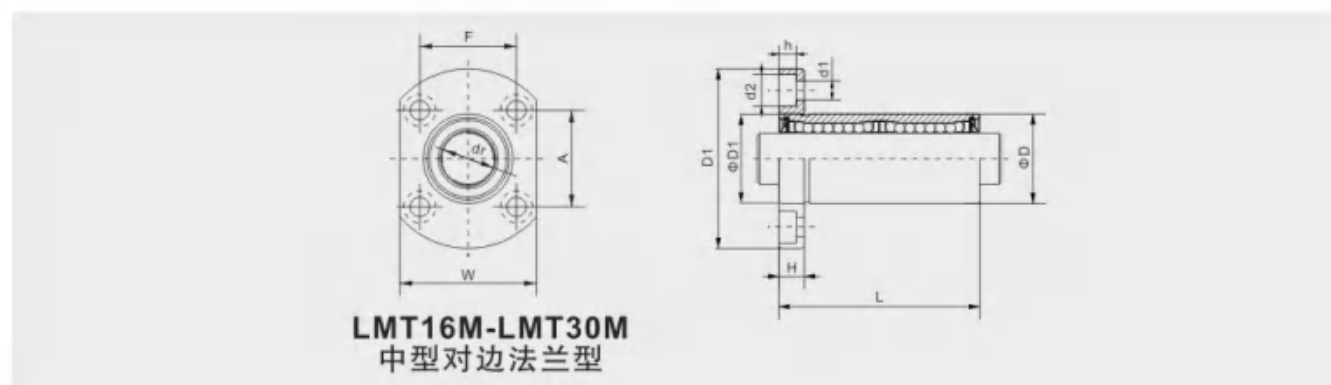
注：LM08S20（S20表示长20）和LM系列中的LM8S(S表示长17)有区别

LM...M中型(Middle)直线轴承
LM...M Middle type Linear bearing



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS										径向跳动 ECCENTRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)	
		内径 INScribed CIRCLE DIAMETER		外径 OUTER DIAMETER			长度 LENGTH		外止动槽 OUTER LOCKING GROOVE				W			
		dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L	公差 TOLERANCE	B	公差 TOLERANCE	D1					
LM06M	4	6	0 -0.010	12	0 -0.013	0 -0.018	29	0 -0.3	22.2	0 -0.5	11.5	1.1	0.015	23	31	12
LM08M		8		15			37		27.2		14.3			32	46	27
LM10M		10		19			47		32.6		18			52	73	49
LM12M		12		21			56		38.2		20			64	83	54
LM16M	5	16	0 -0.016	28	0 -0.021	0 -0.025	56	0 -0.6	43.2	0 -0.6	27	1.6	0.02	118	147	112
LM20M		20		32			83		58.7		30.5			158	211	152
LM25M	6	25	0 -0.012	40	0 -0.019	0 -0.025	90	0 -0.6	75	0 -0.6	38	1.85	0.02	176	313	332
LM30M		30		45			90		75		43			249	405	422

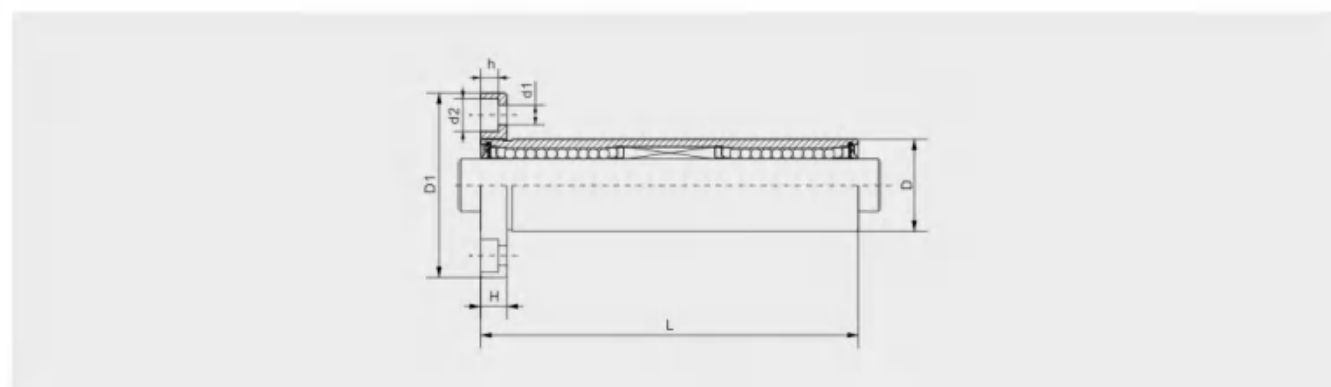
LMF...M中型(Middle)圆法兰型直线轴承
LMF...M Middle circular flange type
LMK...M中型(Middle)方法兰型直线轴承
LMK...M Middle square flange type
LMT...M中型(Middle)对边法兰型直线轴承
LMT...M Middle oval flange type



型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS					
				内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH	
				dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L
LMF06M	LMK06M	LMT06M	4	6	0 -0.010	12	0 -0.013	0 -0.018	29
LMF08M	LMK08M	LMT08M		8		15			37
LMF10M	LMK10M	LMT10M		10		19			47
LMF12M	LMK12M	LMT12M		12		21			56
LMF16M	LMK16M	LMT16M	5	16	0 -0.012	28	0 -0.016	0 -0.021	65
LMF20M	LMK20M	LMT20M	6	20		32			83
LMF25M	LMK25M	LMT25M		25		40			90
LMF30M	LMK30M	LMT30M		30		45			90

型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	主要尺寸 MAIN DIMENSIONS											基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)						
			法兰 FLANGE							连接孔 HOLE FOR ATTACHMENT			法兰 垂直度 SQUAR- ENESS	径向 跳动 (MAX)	动 DYNAMIC C(kgf)				静 STATIC Co(kgf)			
			D1	K	W	H	Φ	A	F	d1	d2	h										
LMF06M	LMK06M	LMT06M	28	22	18	5	20	20	-	3.5	6	3.1	0.015	0.015	23	31	27	21	24			
LMF08M	LMK08M	LMT08M	32	25	21		24	24	-									32	46	47	39	43
LMF10M	LMK10M	LMT10M	40	30	25	6	29	29	-	4.5	7.5	4.1			52	73	85	65	77			
LMF12M	LMK12M	LMT12M	42	32	27		32	32	-									64	83	89	69	81
LMF16M	LMK16M	LMT16M	48	37	34		38	31	22									118	147	157	132	149
LMF20M	LMK20M	LMT20M	54	42	38	8	43	36	24	5.5	9	5.1	0.02	0.02	158	211	232	197	219			
LMF25M	LMK25M	LMT25M	62	50	46		51	40	32									176	313	479	440	450
LMF30M	LMK30M	LMT30M	74	58	51		10	60	49						35	6.6	11	6.1	249	405	559	481

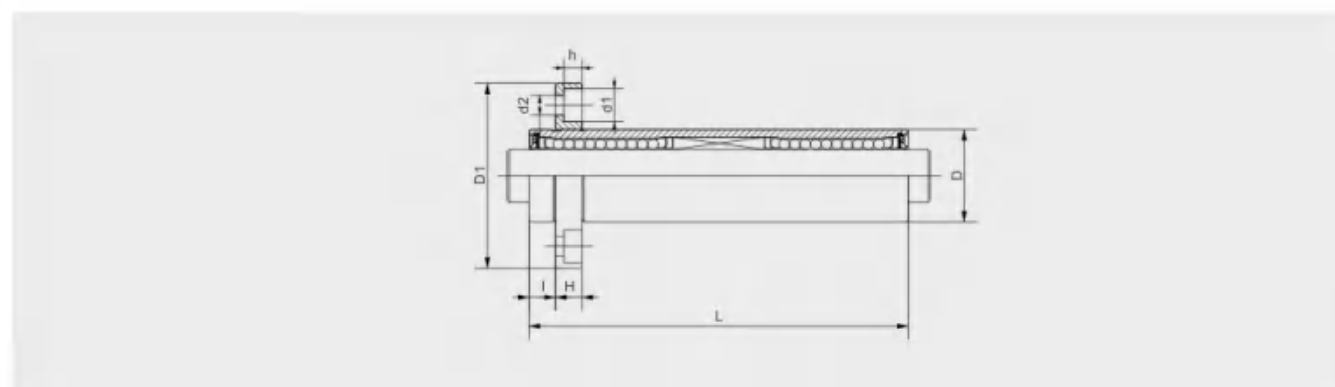
TRF三倍(Triple)加长圆法兰型直线轴承
TRF Triple Long circular flange type
TRK三倍(Triple)加长方兰型直线轴承
TRK Triple Long square flange type
TRT三倍(Triple)加长对边法兰型直线轴承
TRT Triple Long oval flange type



型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS						
				内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER			长度 LENGTH	
				dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L	公差 TOLERANCE
TRF10	TRK10	—	4	10	$0_{-0.012}$	23	$0_{-0.016}$	$0_{-0.021}$	82	± 0.3
TRF12	TRK12	—		12	$0_{-0.015}$	26			86	
TRF16	TRK16	TRT16		16		32	$0_{-0.019}$	$0_{-0.025}$	105	
TRF20	TRK20	TRT20		20	$0_{-0.018}$	40			120	
TRF25	TRK25	TRT25	5	25		45	$0_{-0.019}$	$0_{-0.030}$	167	
TRF30	TRK30	TRT30		30	52	184				
TRF35	TRK35	TRT35	6	35	$0_{-0.021}$	60	200			
TRF40	TRK40	TRT40		40			65		230	

型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	主要尺寸 MAIN DIMENSIONS												基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
			法兰 FLANGE						连接孔 HOLE FOR ATTACHMENT			法兰 垂直度 SQUAR- EENESS	径向 跳动 (MAX)						
			D1	K	W	H	Φ	A	F	d1	d2			h					
TRF10	TRK10	-	43	34	29	6	33	-	-	4.5	7.5	4.1	0.020	0.020	56	112	205	189	-
TRF12	TRK12	-	46	35	32		36	-	-										67
TRF16	TRK16	TRT16	54	42	38	8	43	36	24	5.5	9	5.1	0.025	0.025	125	239	412	376	386
TRF20	TRK20	TRT20	62	50	46		51	40	32									143	279
TRF25	TRK25	TRT25	74	58	51	10	60	49	35	6.6	11	6.1			159	320	1244	1163	1178
TRF30	TRK30	TRT30	82	64	58		67	55	38									254	560
TRF35	TRK35	TRT35	96	75	66	13	78	64	45	9	14	8.1	0.030	0.030	270	639	2580	2400	2433
TRF40	TRK40	TRT40	101	80	71		83	68	48									350	820

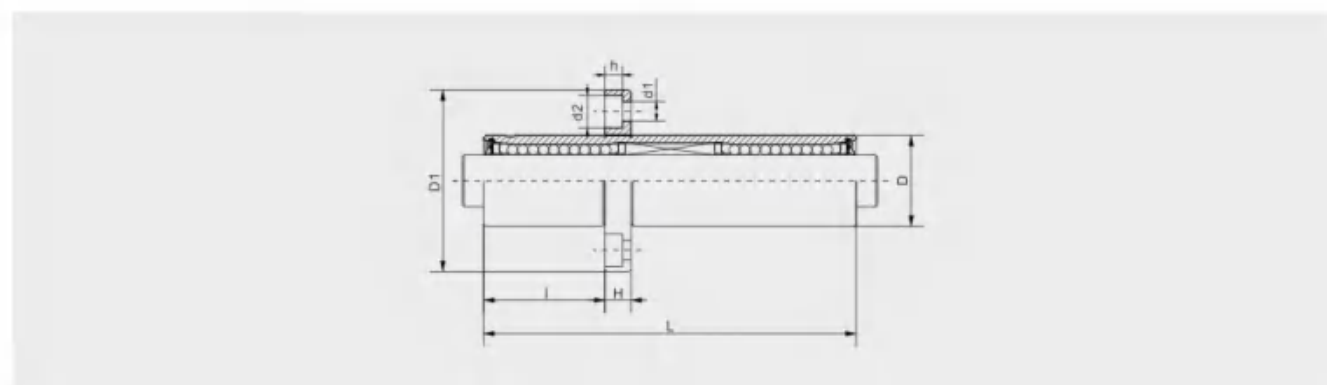
TRFP三倍(Triple)加长引导式圆法兰型直线轴承
TRFP Triple Long pilot pattern circular flange type
TRKP三倍(Triple)加长引导式方兰型直线轴承
TRKP Triple Long pilot pattern square flange type
TRTP三倍(Triple)加长引导式对边法兰型直线轴承
TRTP Triple Long pilot pattern oval flange type



型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS							长度 LENGTH	I
				内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER			公差 TOLERANCE			
				dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L	公差 TOLERANCE		
TRFP10	TRKP10	—	4	10	$0_{-0.012}$	23	$0_{-0.016}$	$0_{-0.021}$	82	± 0.3	6	
TRFP12	TRKP12	—		12	$0_{-0.015}$	26			86			
TRFP16	TRKP16	TRTP16		16		32	$0_{-0.019}$	$0_{-0.025}$	105		8	
TRFP20	TRKP20	TRTP20		20	$0_{-0.018}$	40			120			
TRFP25	TRKP25	TRTP25	5	25		45	$0_{-0.022}$	$0_{-0.030}$	167		10	
TRFP30	TRKP30	TRTP30		30	52	184						
TRFP35	TRKP35	TRTP35	6	35	$0_{-0.021}$	—	200		13			
TRFP40	TRKP40	TRTP40		40			65				230	

型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	主要尺寸 MAIN DIMENSIONS												基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
			法兰 FLANGE						连接孔 HOLE FOR ATTACHMENT			法兰 垂直度 SQUAR- ENESS	径向 跳动 (MAX)						
			D1	K	W	H	Φ	A	F	d1	d2			h					
TRFP10	TRKP10	—	43	34	29	6	33	—	—	4.5	7.5	4.1	0.020	0.020	56	112	205	189	—
TRFP12	TRKP12	—	46	35	32		36	—	—						67	122	248	228	—
TRFP16	TRKP16	TRTP16	54	42	38	8	43	36	24	5.5	9	5.1	0.025	0.025	125	239	412	376	386
TRFP20	TRKP20	TRTP20	62	50	46		51	40	32						143	279	752	714	724
TRFP25	TRKP25	TRTP25	74	58	51	10	60	49	35	6.6	11	6.1	0.025	0.025	159	320	1244	1163	1178
TRFP30	TRKP30	TRTP30	82	64	58		67	55	38						254	560	1636	1543	1567
TRFP35	TRKP35	TRTP35	96	75	66	13	78	64	45	9	14	8.1	0.030	0.030	270	639	2580	2400	2433
TRFP40	TRKP40	TRTP40	101	80	71		83	68	48						350	820	2950	2510	2798

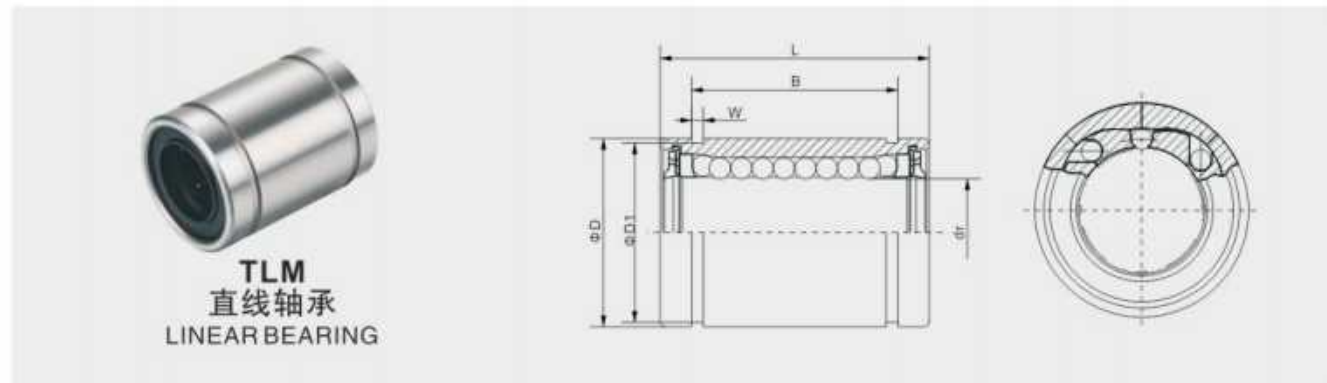
TRFPC三倍(Triple)加长中间式圆法兰型直线轴承
TRFPC Triple Long centered circular flange type
TRKPC三倍(Triple)加长中间式方兰型直线轴承
TRKPC Triple Long centered square flange type
TRTPC三倍(Triple)加长中间式对边法兰型直线轴承
TRTPC Triple Long centered oval flange type



型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS							I
				内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER			长度 LENGTH		
				dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L	公差 TOLERANCE	
TRFPC10	TRKPC10	—	4	10	$0_{-0.012}$	23	$0_{-0.016}$	$0_{-0.021}$	82	± 0.3	27
TRFPC12	TRKPC12	—		12	$0_{-0.015}$	26			86		28
TRFPC16	TRKPC16	TRTPC16		16		$0_{-0.019}$	32	105	35		
TRFPC20	TRKPC20	TRTPC20		20	40		120	40			
TRFPC25	TRKPC25	TRTPC25	5	25	45		167	55			
TRFPC30	TRKPC30	TRTPC30		30	52	$0_{-0.022}$	184	61			
TRFPC35	TRKPC35	TRTPC35	6	35	$0_{-0.021}$	60	$0_{-0.030}$	200	67		
TRFPC40	TRKPC40	TRTPC40		40		65		230	77		

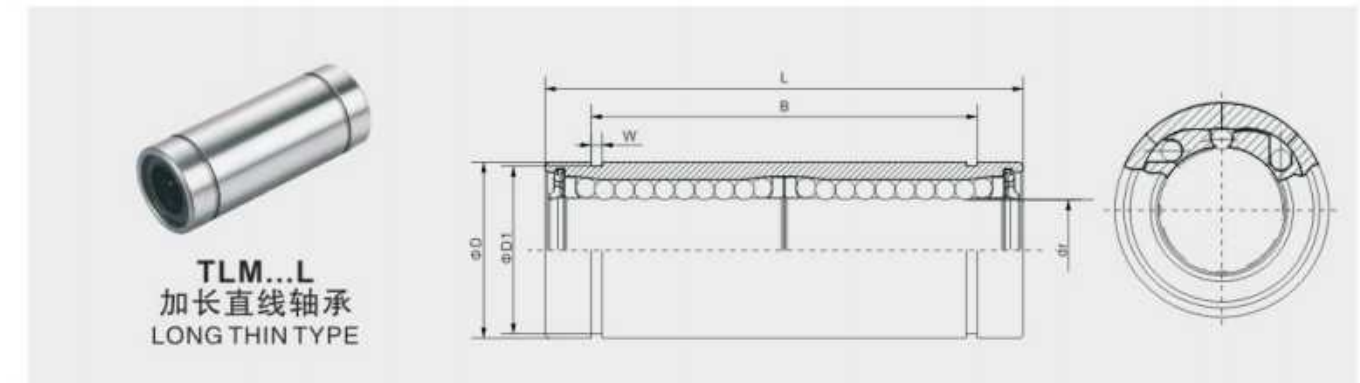
型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	主要尺寸 MAIN DIMENSIONS												基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
			法兰 FLANGE							连接孔 HOLE FOR ATTACHMENT			法兰 垂直度 SQUAR- ENESS	径向 跳动 (MAX)	动 DYNAMIC C(kgf)	静 STATIC Co(kgf)			
			D1	K	W	H	Φ	A	F	d1	d2	h							
TRFPC10	TRKPC10	—	43	34	29	6	33	—	—	4.5	7.5	4.1	0.020	0.020	56	112	205	189	—
TRFPC12	TRKPC12	—	46	35	32		36	—	—						67	122	248	228	—
TRFPC16	TRKPC16	TRTPC16	54	42	38	8	43	36	24	5.5	9	5.1	0.025	0.025	125	239	412	376	386
TRFPC20	TRKPC20	TRTPC20	62	50	46		51	40	32							143	279	752	714
TRFPC25	TRKPC25	TRTPC25	74	58	51	10	60	49	35	6.6	11	6.1	0.025	0.025	159	320	1244	1163	1178
TRFPC30	TRKPC30	TRTPC30	82	64	58		67	55	38							254	560	1636	1543
TRFPC35	TRKPC35	TRTPC35	96	75	66	13	78	64	45	9	14	8.1	0.030	0.030	270	639	2580	2400	2433
TRFPC40	TRKPC40	TRTPC40	101	80	71		83	68	48							350	820	2950	2510

TLM紧凑型(Thin)直线轴承
TLM Linear bearing



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS									径向跳动 ECCENTRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		外止动槽 OUTER LOCKING GROOVE				W	动 DYNAMIC C(kgf)		静 STATIC Co(kgf)
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	B	公差 TOLERANCE	D1					
TLM06	4	6	0 -0.009	10	0 -0.009	19	0 -0.2	136	0 -0.4	96	0.012	13	16	6	
TLM08		8		13	0 -0.011	24		176		124		24	28	12	
TLM10	5	10		17	29	217		162		37		44	26		
TLM12		12	19	0 -0.013	30	231	18	39	46	32					
TLM16		16	26	37	26	24.9	62	73	58						

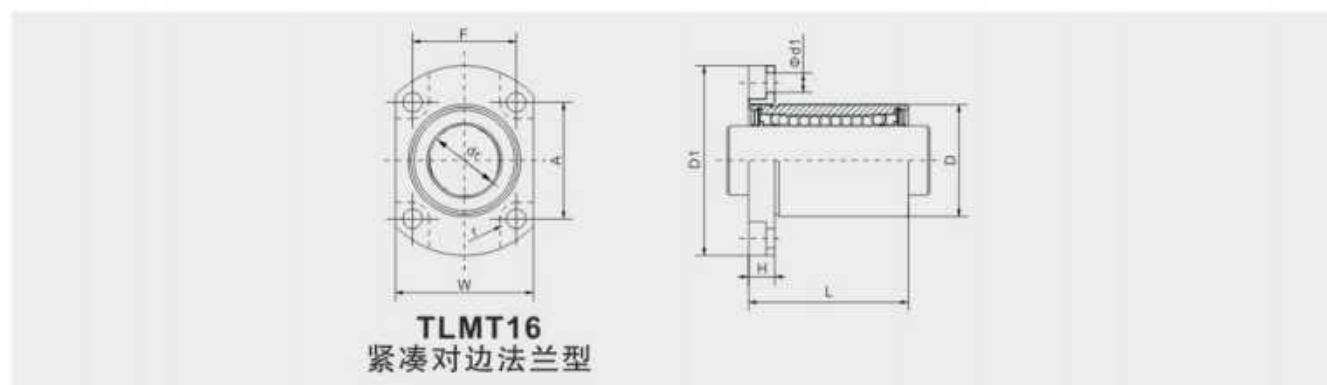
TLM...L加长紧凑型(Thin)直线轴承
TLM...L Long Thin type



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS									径向跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		外止动槽 OUTER LOCKING GROOVE				W	动 DYNAMIC C(kgf)		静 STATIC Co(kgf)	
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	B	公差 TOLERANCE	D1						
TLM06L	4	6	0 -0.010	10	0 -0.009	35	0 -0.3	27.1	0 -0.5	96	1.15	0.015	21	32	12	
TLM08L		8		13	0 -0.011	45		35.1		124			39	57	24	
TLM10L	5	10		17	0 -0.013	55		43.7		16.2			1.35	60	88	52
TLM12L		12		19		57		46.1		18				62	92	64
TLM16L		16	26	70		52.5	24.9	98	146	116						



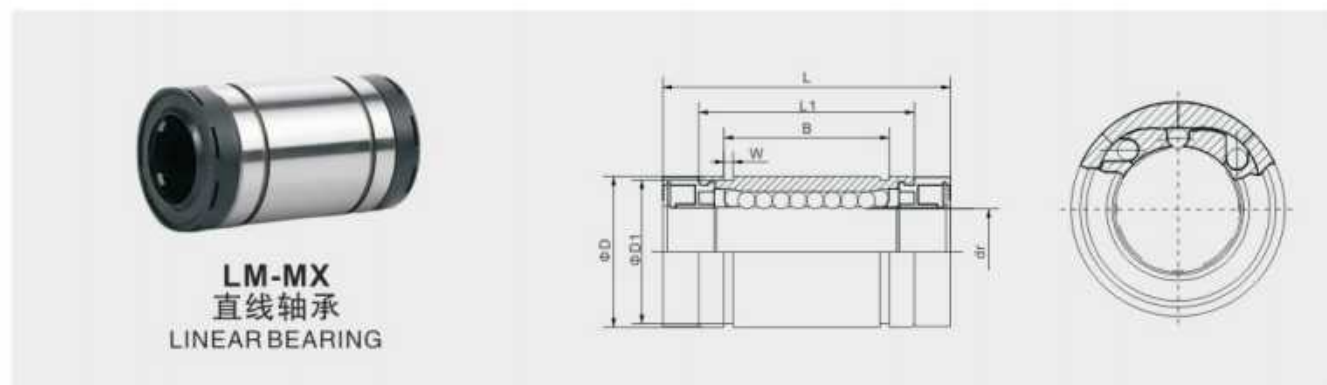
TLMF紧凑(Thin)圆法兰型直线轴承
TLMF Thin circular flange type
TLMK紧凑(Thin)方法兰型直线轴承
TLMK Thin square flange type
TLMT紧凑(Thin)对边法兰型直线轴承
TLMT Thin oval flange type



型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS						
				内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER			长度 LENGTH	
				dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L	公差 TOLERANCE
TLMF06	TLMK06	TLMT06	4	6	0 -0.009	10	0 -0.011	0 -0.015	16	± 0.3
TLMF08	TLMK08	TLMT08		8		13	0 -0.013	0 -0.018	24	
TLMF10	TLMK10	TLMT10	5	10		17	0 -0.016	0 -0.021	29	
TLMF12	TLMK12	TLMT12		12		19			30	
TLMF16	TLMK16	TLMT16		16		26	37			

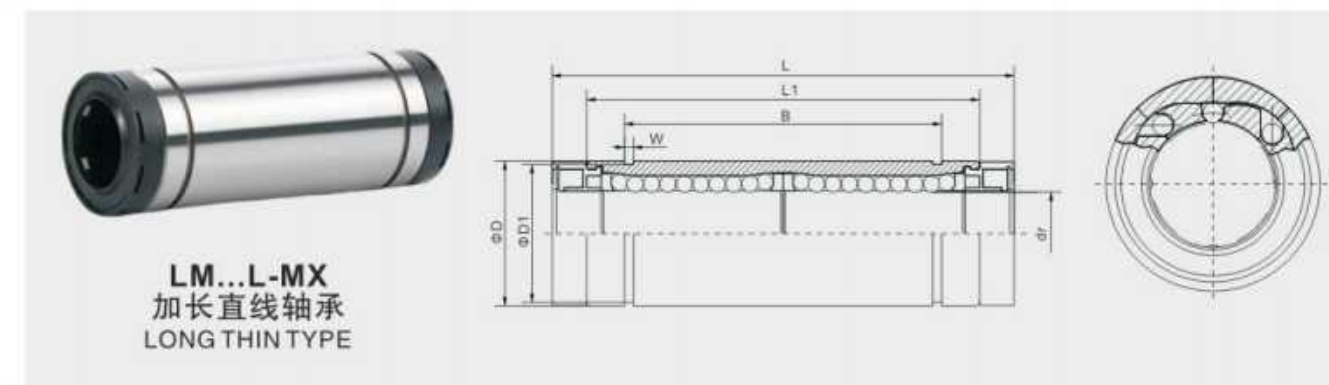
型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	主要尺寸 MAIN DIMENSIONS												基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)			
			法兰 FLANGE							连接孔 HOLE FOR ATTACHMENT				法兰 垂直度 SQUAR- ENESS	径向 跳动 (MAX)	动 DYNAMIC C(kgf)				静 STATIC Co(kgf)
			D1	K	W	H	Φ	A	F	d1	d2	r	h							
TLMF06	TLMK06	TLMT06	25	20	16	5	19	19	-	3.5	6	3	3.1	0.012	0.012	13	16	18	14	15
TLMF08	TLMK08	TLMT08	28	23	19		22	22	-							24	28	27	22	24
TLMF10	TLMK10	TLMT10	35	27	23	6	27	27	-	4.5	7.5	3.75	4.1			37	44	52	41	46
TLMF12	TLMK12	TLMT12	38	29	25		30	30	-							39	46	64	50	55
TLMF16	TLMK16	TLMT16	44	34	32		36	27	24							62	73	96	77	83

LM-MX带润滑盒(Maintenance box)直线轴承
LM...MX Maintenance box Linear bearing



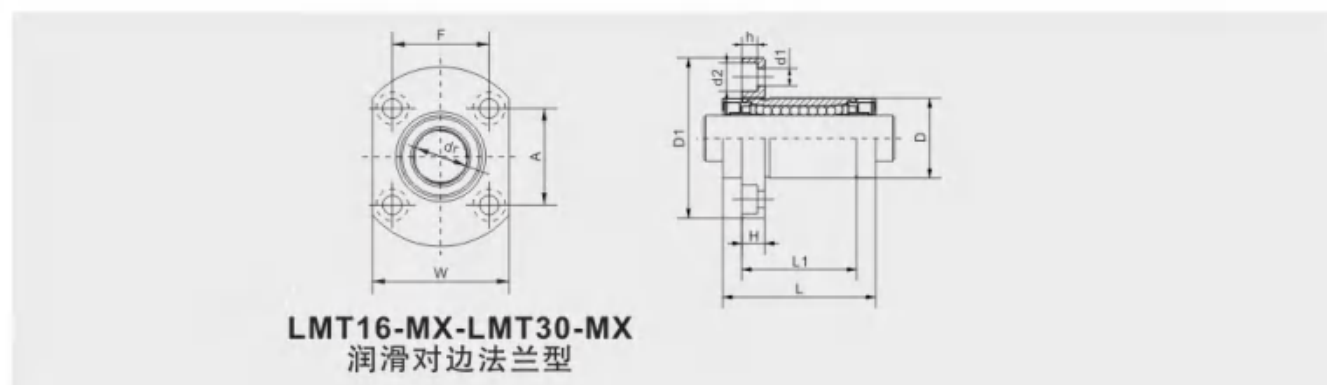
型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS										径向 跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH			外止动槽 OUTER LOCKING GROOVE				W			
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	L1	公差 TOLERANCE	B	公差 TOLERANCE	D1					
LM10-MX	4	10	0 -0.009	19	0 -0.013	39	29	0 -0.2	22	0 -0.4	18	1.3	0.012	38	56	35
LM12-MX		12		21		41	30		23		20			52	79	45
LM16-MX	5	16	0 -0.010	28	0 -0.016	49	37	0 -0.3	26.5	0 -0.5	27	1.6	0.015	79	120	80
LM20-MX		20		32		56	42		30.5		30.5			88	140	109
LM25-MX	6	25	0 -0.010	40	0 -0.019	77	59	0 -0.4	41	0 -0.6	38	1.85	0.015	100	160	255
LM30-MX		30		45		84	64		44.5		43			160	220	286

LM...L-MX加长带润滑盒(Maintenance box)直线轴承
LM...L-MX Maintenance box Long type



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS										径向跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGH (g)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH			外止动槽 OUTER LOCKING GROOVE				W	动 DYNAMIC C(kgf)		静 STATIC Co(kgf)
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	L	公差 TOLERANCE	B	公差 TOLERANCE	D1					
LM10L-MX	4	10	0 -0.010	19	0 -0.016	65	55	0 -0.3	44	0 -0.5	18	1.3	0.015	60	112	66
Lm12L-MX		12		21		68	57		46		20			83	160	84
Lm16L-MX	5	16	0 -0.012	28	0 -0.019	82	70	0 -0.4	53	0 -0.6	27	1.6		0.020	126	240
Lm20L-MX		20		32		94	80		61		30.5		143		280	191
Lm25L-MX	6	25	0 -0.012	40	0 -0.019	130	112	0 -0.4	82	0 -0.6	38	1.85	0.020		159	320
Lm30L-MX		30		45		143	123		89		43			254	560	504

LMF-MX带润滑盒(Maintenance box)圆法兰型直线轴承
LMF...MX Maintenance box circular flange type
LMK-MX带润滑盒(Maintenance box)方法兰型直线轴承
LMK...MX Maintenance box square flange type
LMT-MX带润滑盒(Maintenance box)对边法兰型直线轴承
LMT...MX Maintenance box oval flange type



型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS							
				内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER			长度 LENGTH		
				dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L	L1	公差 TOLERANCE
LMF10-MX	LMK10-MX	LMT10-MX	4	10	0 -0.009	19	0 -0.016	0 -0.021	39	29	± 0.3
LMF12-MX	LMK12-MX	LMT12-MX		12		21			41	30	
LMF16-MX	LMK16-MX	LMT16-MX	5	16	0 -0.010	28	0 -0.019	0 -0.025	49	37	
LMF20-MX	LMK20-MX	LMT20-MX		20		32			56	42	
LMF25-MX	LMK25-MX	LMT25-MX	6	25		40			77	59	
LMF30-MX	LMK30-MX	LMT30-MX		30		45			84	64	

型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	主要尺寸 MAIN DIMENSIONS												基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
			法兰 FLANGE							连接孔 HOLE FOR ATTACHMENT			法兰 垂直度 SQUAR- ENESS	径向 跳动 (MAX)					
			D1	K	W	H	Φ	A	F	d1	d2	h							
LMF10-MX	LMK10-MX	LMT10-MX	40	30	25	6	29	29	-	4.5	7.5	4.1	0.012	0.012	38	56	76	56	68
LMF12-MX	LMK12-MX	LMT12-MX	42	32	27		32	32	-						52	79	80	61	72
LMF16-MX	LMK16-MX	LMT16-MX	48	37	34		38	31	22						79	120	127	111	119
LMF20-MX	LMK20-MX	LMT20-MX	54	42	38	8	43	36	24	5.5	9	5.1	0.015	0.015	88	140	191	156	178
LMF25-MX	LMK25-MX	LMT25-MX	62	50	46		51	40	32						100	160	359	319	344
LMF30-MX	LMK30-MX	LMT30-MX	74	58	51		10	60	49						35	6.6	11	6.1	160

LMF...L-MX加长带润滑盒(Maintenance box)圆法兰型直线轴承

LMF...L-MX Maintenance box Long circular flange type

LMK...L-MX加长带润滑盒(Maintenance box)方法兰型直线轴承

LMK...L-MX Maintenance box Long square flange type

LMT...L-MX加长带润滑盒(Maintenance box)对边法兰型直线轴承

LMT...L-MX Maintenance box Long oval flange type



LMF...L-MX
加长圆法兰型
LONG CIRVULAR
FLANGE TYPE



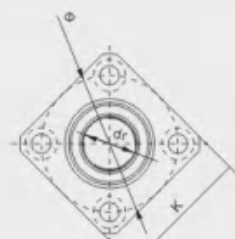
LMK...L-MX
加长方法兰型
LONG SQUARE
FLANGE TYPE



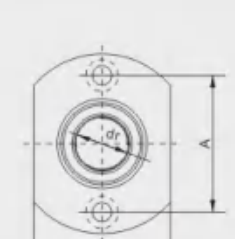
LMT...L-MX
加长对边法兰型
LONG OVAL
FLANGE TYPE



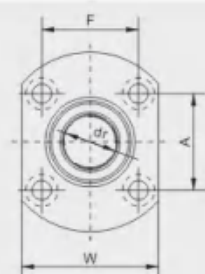
LMF...L-MX
加长润滑圆法兰型



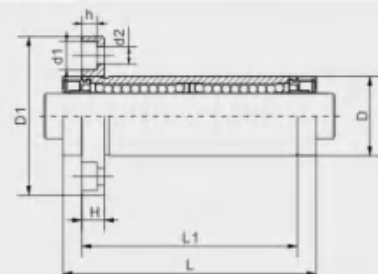
LMK...L-MX
加长润滑方法兰型



LMT10L-MX-LMT12L-MX
加长润滑对边法兰型



LMT16L-MX-LMT30L-MX
加长润滑对边法兰型



型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS								
				内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER				长度 LENGTH		
				dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L	L1	公差 TOLERANCE	
LMF10L-MX	LMK10L-MX	LMT10L-MX	4	10	0 -0.010	19	0 -0.016	0 -0.021	65	55	± 0.3	
LMF12L-MX	LMK12L-MX	LMT12L-MX		12		21			68	57		
LMF16L-MX	LMK16L-MX	LMT16L-MX	5	16	0 -0.012	28	0 -0.019	0 -0.025	82	70		
LMF20L-MX	LMK20L-MX	LMT20L-MX		20		32			94	80		
LMF25L-MX	LMK25L-MX	LMT25L-MX	6	25		40			130	112		
LMF30L-MX	LMK30L-MX	LMT30L-MX		30		45			143	123		

型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	主要尺寸 MAIN DIMENSIONS												基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
			法兰 FLANGE							连接孔 HOLE FOR ATTACHMENT		法兰 垂直度 SQUAR- ENESS	径向 跳动 (MAX)						
			D1	K	W	H	Φ	A	F	d1	d2			h					
LMF10L-MX	LMK10L-MX	LMT10L-MX	40	30	25	6	29	29	-	4.5	7.5	4.1	0.015	0.015	60	112	102	82	94
LMF12L-MX	LMK12L-MX	LMT12L-MX	42	32	27		32	32	-						83	160	114	94	106
LMF16L-MX	LMK16L-MX	LMT16L-MX	48	37	34		38	31	22						126	240	197	172	189
LMF20L-MX	LMK20L-MX	LMT20L-MX	54	42	38	8	43	36	24	5.5	9	5.1	0.020	0.020	143	280	271	236	258
LMF25L-MX	LMK25L-MX	LMT25L-MX	62	50	46		51	40	32	159	320	559			519	544			
LMF30L-MX	LMK30L-MX	LMT30L-MX	74	58	51		10	60	49	35	6.6	11			6.1	254	560	704	614

LMFP-MX引导式带润滑盒(Maintenance box)圆法兰型直线轴承

LMFP...MX Maintenance box Pilot Pattern circular flange type

LMKP-MX引导式带润滑盒(Maintenance box)方法兰型直线轴承

LMKP...MX Maintenance box Pilot Pattern square flange type

LMTP-MX引导式带润滑盒(Maintenance box)对边法兰型直线轴承

LMTP...MX Maintenance box Pilot Pattern oval flange type



LMFP-MX
圆法兰型
PILOT PATTERN CIRVULAR
FLANGE TYPE



LMKP-MX
方法兰型
PILOT PATTERN SQUARE
FLANGE TYPE



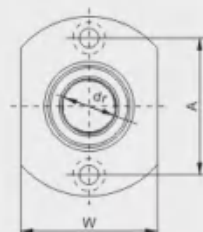
LMTP-MX
对边法兰型
PILOT PATTERN OVAL
FLANGE TYPE



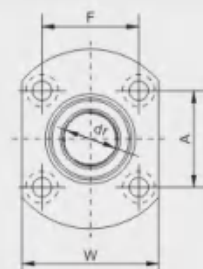
LMFP-MX
引导式润滑圆法兰型



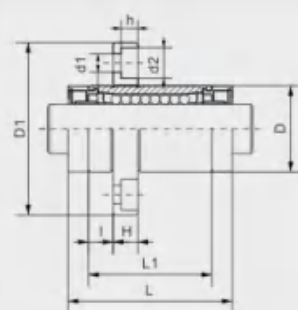
LMKP-MX
引导式润滑方法兰型



LMTP10-MX-LMTP12-MX
引导式润滑对边法兰型



LMTP16-MX-LMTP30-MX
引导式润滑对边法兰型



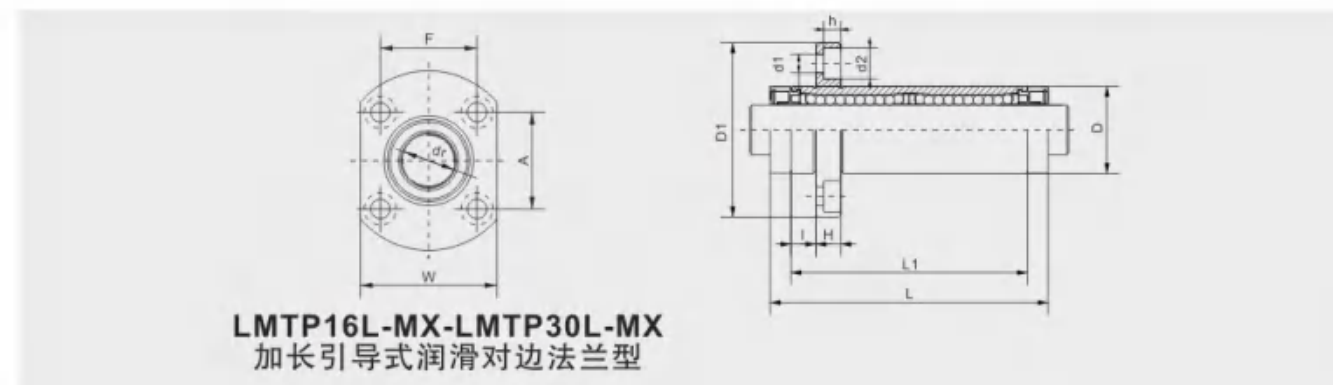
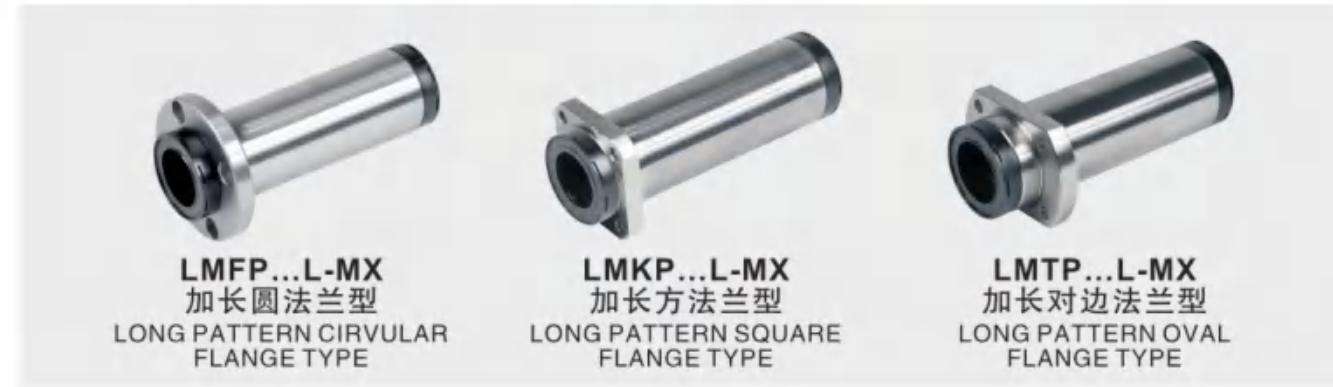
型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS								
				内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER				长度 LENGTH		
				dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L	L1	公差 TOLERANCE	
LMFP10-MX	LMKP10-MX	LMTP10-MX	4	10	0 -0.009	19	0 -0.016	0 -0.021	39	29	± 0.3	6
LMFP12-MX	LMKP12-MX	LMTP12-MX		12		21			41	30		
LMFP16-MX	LMKP16-MX	LMTP16-MX	5	16	0 -0.010	28	0 -0.019	0 -0.025	49	37		8
LMFP20-MX	LMKP20-MX	LMTP20-MX		20		32			56	42		
LMFP25-MX	LMKP25-MX	LMTP25-MX	6	25	0 -0.010	40	0 -0.019	0 -0.025	77	59	1	
LMFP30-MX	LMKP30-MX	LMTP30-MX		30		45			84	64		

型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	主要尺寸 MAIN DIMENSIONS												基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
			法兰 FLANGE						连接孔 HOLE FOR ATTACHMENT			法兰 垂直度 SQUAR- ENESS	径向 跳动 (MAX)						
			D1	K	W	H	Φ	A	F	d1	d2			h					
LMFP10-MX	LMKP10-MX	LMTP10-MX	40	30	25	6	29	29	-	4.5	7.5	4.1	0.012	0.012	38	56	76	56	68
LMFP12-MX	LMKP12-MX	LMTP12-MX	42	32	27		32	32	-						88	79	80	61	72
LMFP16-MX	LMKP16-MX	LMTP16-MX	48	37	34		38	31	22						127	111	119		
LMFP20-MX	LMKP20-MX	LMTP20-MX	54	42	38	8	43	36	24	5.5	9	5.1	0.015	0.015	88	140	191	156	178
LMFP25-MX	LMKP25-MX	LMTP25-MX	62	50	46		51	40	32						359	319	344		
LMFP30-MX	LMKP30-MX	LMTP30-MX	74	58	51		10	60	49						35	6.6	11	6.1	160

LMFP...L-MX加长引导式带润滑盒(Maintenance box)圆法兰型直线轴承
LMFP...L-MX Maintenance box Long Pattern circular flange type

LMKP...L-MX加长引导式带润滑盒(Maintenance box)方法兰型直线轴承
LMKP...L-MX Maintenance box Long Pattern square flange type

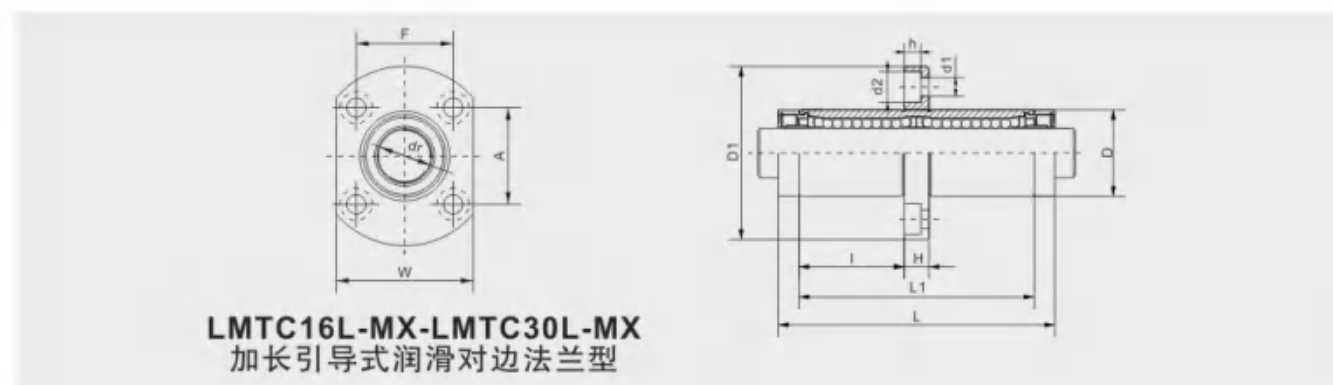
LMTP...L-MX加长引导式带润滑盒(Maintenance box)对边法兰型直线轴承
LMTP...L-MX Maintenance box Long Pattern oval flange type



型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS								I
				内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER			长度 LENGTH			
				dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L	L1	公差 TOLERANCE	
LMFP10L-MX	LMKP10L-MX	LMTP10L-MX	4	10	0 -0.010	19	0 -0.016	0 -0.021	65	55	± 0.3	6
LMFP12L-MX	LMKP12L-MX	LMTP12L-MX		12		21			68	57		
LMFP16L-MX	LMKP16L-MX	LMTP16L-MX	5	16	0 -0.012	28	0 -0.019	0 -0.025	82	70		8
LMFP20L-MX	LMKP20L-MX	LMTP20L-MX		20		32			94	80		
LMFP25L-MX	LMKP25L-MX	LMTP25L-MX	6	25	0 -0.012	40	0 -0.019	0 -0.025	130	112	10	
LMFP30L-MX	LMKP30L-MX	LMTP30L-MX		30		45			143	123		

型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	主要尺寸 MAIN DIMENSIONS												基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
			法兰 FLANGE						连接孔 HOLE FOR ATTACHMENT			法兰 垂直度 SQUAR- ENESS	径向 跳动 (MAX)						
			D1	K	W	H	Φ	A	F	d1	d2			h					
LMFP10L-MX	LMKP10L-MX	LMTP10L-MX	40	30	25	6	29	29	-	4.5	7.5	4.1	0.015	0.015	60	112	102	82	94
LMFP12L-MX	LMKP12L-MX	LMTP12L-MX	42	32	27		32	32	-						83	160	114	94	106
LMFP16L-MX	LMKP16L-MX	LMTP16L-MX	48	37	34		38	31	22						126	240	197	172	189
LMFP20L-MX	LMKP20L-MX	LMTP20L-MX	54	42	38	8	43	36	24	5.5	9	5.1	0.020	0.020	143	280	271	236	258
LMFP25L-MX	LMKP25L-MX	LMTP25L-MX	62	50	46		51	40	32						159	320	559	519	544
LMFP30L-MX	LMKP30L-MX	LMTP30L-MX	74	58	51		10	60	49						35	6.6	11	6.1	254

LMFC...L-MX加长中间式带润滑盒(Maintenance box)圆法兰型直线轴承
LMFC...L-MX Maintenance box Long centered circular flange type
LMKC...L-MX加长中间式带润滑盒(Maintenance box)方法兰型直线轴承
LMKC...L-MX Maintenance box Long centered square flange type
LMTc...L-MX加长中间式带润滑盒(Maintenance box)对边法兰型直线轴承
LMTc...L-MX Maintenance box Long centered oval flange type



型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS								I
				内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER			长度 LENGTH			
				dr	公差 TOLERANCE	D	无表面处理公差 NO SURFACE TREATMENT	有表面处理公差 SURFACE TREATMENT	L	L1	公差 TOLERANCE	
LMFC10L-MX	LMKC10L-MX	LMTc10L-MX	4	10	0 -0.010	19	0 -0.016	0 -0.021	65	55	± 0.3	24.
LMFC12L-MX	LMKC12L-MX	LMTc12L-MX		12		21			68	57		25.
LMFC16L-MX	LMKC16L-MX	LMTc16L-MX	5	16	0 -0.012	28	0 -0.019	0 -0.025	82	70		32
LMFC20L-MX	LMKC20L-MX	LMTc20L-MX		20		32			94	80		36
LMFC25L-MX	LMKC25L-MX	LMTc25L-MX	6	25	0 -0.012	40	0 -0.019	0 -0.025	130	112	± 0.3	52
LMFC30L-MX	LMKC30L-MX	LMTc30L-MX		30		45			143	123		56.

型号 MODEL NO.	型号 MODEL NO.	型号 MODEL NO.	主要尺寸 MAIN DIMENSIONS												基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
			法兰 FLANGE							连接孔 HOLE FOR ATTACHMENT			法兰 垂直度 SQUAR- ENESS	径向 跳动 (MAX)	动 DYNAMIC C(kgf)	静 STATIC Co(kgf)			
			D1	K	W	H	Φ	A	F	d1	d2	h							
LMFC10L-MX	LMKC10L-MX	LMTc10L-MX	40	30	25		29	29	-	4.5	7.5	4.1	0.015	0.015	60	112	102	82	94
LMFC12L-MX	LMKC12L-MX	LMTc12L-MX	42	32	27	6	32	32	-						83	160	114	94	106
LMFC16L-MX	LMKC16L-MX	LMTc16L-MX	48	37	34		38	31	22	5.5	9	5.1	0.020	0.020	126	240	197	172	189
LMFC20L-MX	LMKC20L-MX	LMTc20L-MX	54	42	38	8	43	36	24						143	280	271	236	258
LMFC25L-MX	LMKC25L-MX	LMTc25L-MX	62	50	46		51	40	32	6.6	11	6.1			159	320	559	519	544
LMFC30L-MX	LMKC30L-MX	LMTc30L-MX	74	58	51	10	60	49	35						254	560	704	614	669



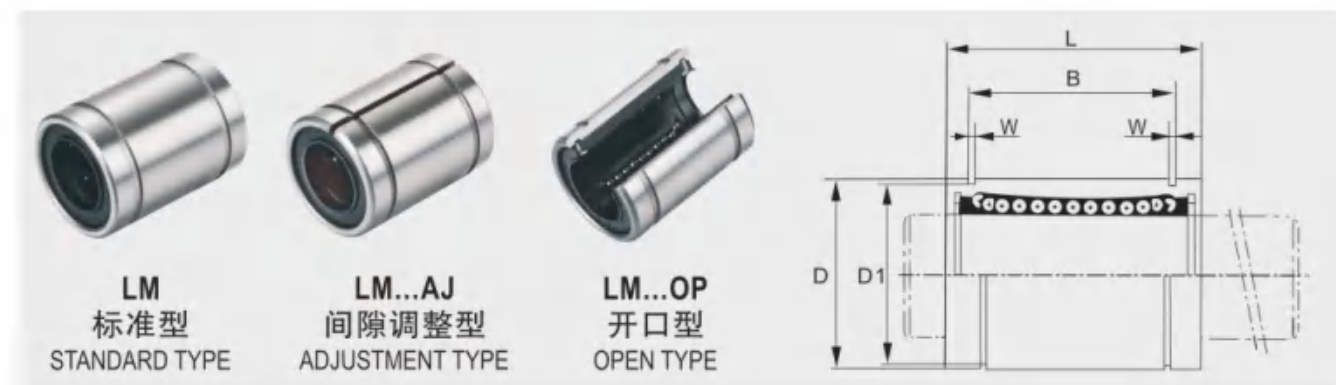
自调整轴承
自动调心补偿
承载能力高

不锈钢轴承
耐腐蚀
耐高温



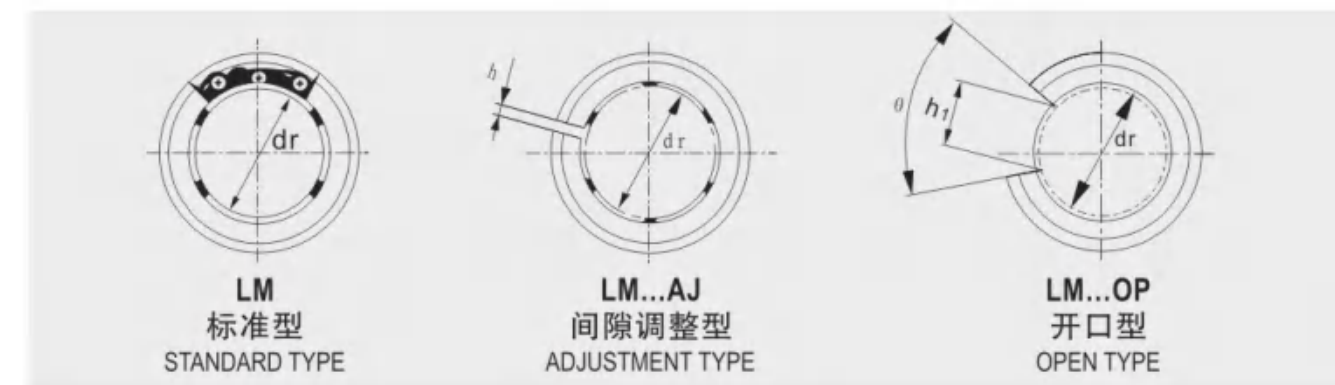


LM直线轴承
LM Linear bearing
亚洲系列
Asia series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS					
						内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH	
						dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE
LM3	4					3		7		10	
LM4	4					4	0 -0.008	8	0 -0.009	12	0 -0.12
LM5	4					5		10		15	
LM6	4	LM6AJ	4			6		12		19	
LM8S	4	LM8SAJ	4			8		15	0 -0.011	17	
LM8	4	LM8AJ	4			8		15		24	
LM10	4	LM10AJ	4	LM10OP	3	10	0 -0.009	19		29	0 -0.20
LM12	4	LM12AJ	4	LM12OP	3	12		21	0 -0.013	30	
LM13	4	LM13AJ	4	LM13OP	3	13		23		32	
LM16	5	LM16AJ	5	LM16OP	4	16		28		37	
LM20	5	LM20AJ	5	LM20OP	4	20		32		42	
LM25	6	LM25AJ	6	LM25OP	5	25	0 -0.010	40	0 -0.016	59	
LM30	6	LM30AJ	6	LM30OP	5	30		45		64	
LM35	6	LM35AJ	6	LM35OP	5	35		52		70	0 -0.30
LM40	6	LM40AJ	6	LM40OP	5	40	0 -0.012	60	0 -0.019	80	
LM50	6	LM50AJ	6	LM50OP	5	50		80		100	
LM60	6	LM60AJ	6	LM60OP	5	60	0 -0.015	90	0 -0.022	110	

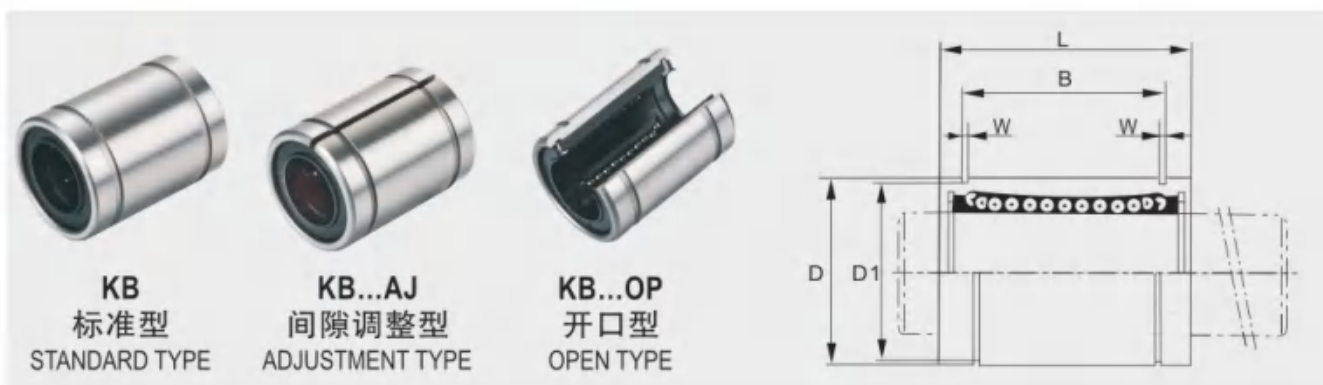
注：工程塑料保持器，金属(钢)保持器，不锈钢系列，自润滑系列尺寸图。
Annotate: POM retainer, Steel retainer, stainless steel type, oilless series is the same.



主要尺寸 MAIN DIMENSIONS							径向 跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
外止动槽 OUTER LOCKING GROOVE			W	h	h1	θ		动 DYNAMIC C(kgf)	静 STATIC Co(kgf)			
B	公差 TOLERANCE	D1										
							0.008	7	11			
								9	13	3		
10.2	0 -0.20	9.6	1.1					17	21	4		
13.5		11.5	1.1	1			21	27	6	6		
11.5		14.3	1.1	1			18	23	9			
17.5		14.3	1.1	1			27	41	14	14		
22		18	1.3	1	6.8	80°	38	56	28	27		
23		20	1.3	1.5	8	80°	42	61	32	31	24	
23		22	1.3	1.5	9	80°	52	79	38	39	32	
26.5		27	1.6	1.5	11	80°	79	120	74	73	58	
30.5		30.5	1.6	1.5	11	60°	88	140	80	80	72	
41		0 -0.30	38	1.85	2	12	50°	0.015	100	160	206	205
44.5	43		1.85	2.5	15	50°	160		220	240	230	196
49.5	49		2.1	2.5	17	50°	170		320	370	366	320
60.5	57		2.1	3	20	50°	0.020	220	410	589	549	464
74	76.5		2.6	3	25	50°		390	810	1480	1440	1180
85	86.5		3.15	3	30	50°		0.025	480	1020	1750	1740



KB直线轴承
KB Linear bearing
欧洲系列
Europe series



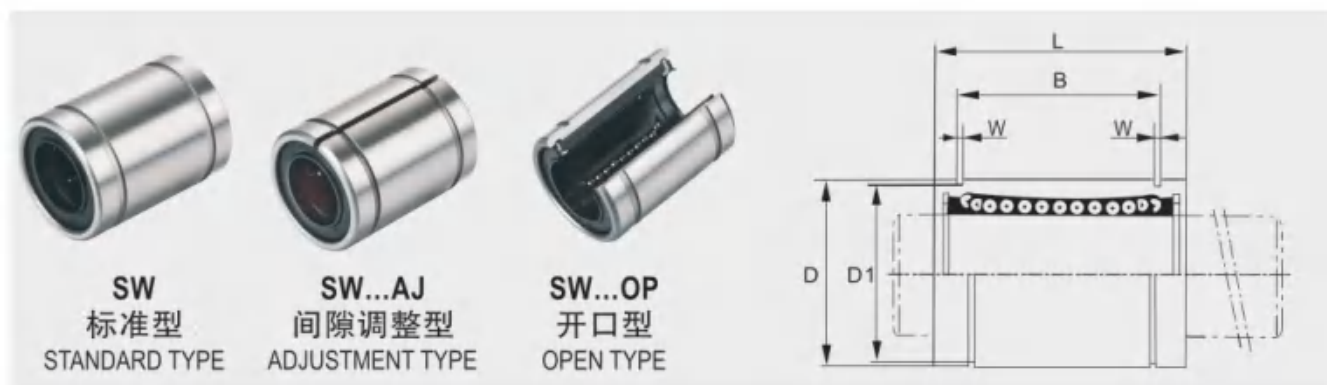
型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS					
						内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH	
						dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE
KB3	4					3	+0.008 0	7	0 -0.008	10	0 -0.12
KB4	4					4		8		12	
KB5	4	KB5AJ	4			5		12		22	
KB8	4	KB8AJ	4			8		16		25	
KB10	4	KB10AJ	4	KB10OP	3	10	+0.009 -0.001	19	0 -0.009	29	0 -0.20
KB12	4	KB12AJ	4	KB12OP	3	12		22		32	
KB16	5	KB16AJ	5	KB16OP	4	16		26		36	
KB20	5	KB20AJ	5	KB20OP	4	20		32		45	
KB25	6	KB25AJ	6	KB25OP	5	25	+0.011 -0.001	40	0 -0.011	58	0 -0.30
KB30	6	KB30AJ	6	KB30OP	5	30		47		68	
KB40	6	KB40AJ	6	KB40OP	5	40		62		80	
KB50	6	KB50AJ	6	KB50OP	5	50		75		100	
KB60	6	KB60AJ	6	KB60OP	5	60	+0.013 -0.002	90	0 -0.015	125	0 -0.40

主要尺寸 MAIN DIMENSIONS							径向 跳动 ECCEN- TIRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)		
外止动槽 OUTER LOCKING GROOVE			W	h	h1	θ		动 DYNAMIC C(kgf)	静 STATIC Co(kgf)			
B	公差 TOLERANCE	D1										
							0.010	7	11			
								9	13			
14.5	0 -0.20	11.5	1.1	1			0.012	21	27	14		
16.5		15.2	1.1	1				27	41	20	20	
22		18	1.3	1.5	6.8	80°		38	47	30	29	22.5
22.9		21	1.3	1.5	7.5	78°		52	79	40	39	35
24.9		24.9	1.3	1.5	10	78°		59	91	50	49	38
31.5		30.3	1.6	2	10	60°		88	140	90	88	72
44.1	0 -0.30	37.5	1.85	2	12.5	60°	0.015	100	160	207	205	173
52.1		44.5	1.85	2	12.5	50°		160	280	320	319	267
60.6		59	2.15	3	16.8	50°	0.017	220	400	674	650	558
77.6		72	2.65	3	21	50°		390	810	1170	1160	990
101.7	0 -0.40	86.5	3.15	3	27.2	54°	0.020	480	1020	1950	1910	1700

注：工程塑料保持器，金属(钢)保持器，不锈钢系列，自润滑系列尺寸图。
Annotate: POM retainer, Steel retainer, stainless steel type, oilless series is the same.



SW直线轴承
SW Linear bearing
英制系列
Inch system series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS					
						内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH	
						dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE
SW4	4	SW4AJ	4			1/4" 6.35	0 -0.009	0.5" 12.7	0 -0.011	0.75" 19.05	0 -0.20
SW6	4	SW6AJ	4			3/8" 9.525		0.625" 15.875	0 -0.013	0.875" 22.225	
SW8	4	SW8AJ	4	SW8OP	3	1/2" 12.7		0.875" 22.225		1.25" 31.75	
SW10	5	SW10AJ	5	SW10OP	4	5/8" 15.875		1.125" 28.575		1.5" 38.1	
SW12	5	SW12AJ	5	SW12OP	4	3/4" 19.05	0 -0.010	1.25" 31.75	0 -0.016	1.625" 41.275	0 -0.30
SW16	6	SW16AJ	6	SW16OP	5	1" 25.4		1.5625" 39.688		2.25" 57.15	
SW20	6	SW20AJ	6	SW20OP	5	1-1/4" 31.75	0 -0.012	2" 50.8	0 -0.019	2.625" 66.675	
SW24	6	SW24AJ	6	SW24OP	5	1-1/2" 38.1		2.375" 60.325		3" 76.2	
SW32	6	SW32AJ	6	SW32OP	5	2" 50.8		3" 76.2	0 -0.022	4" 101.6	

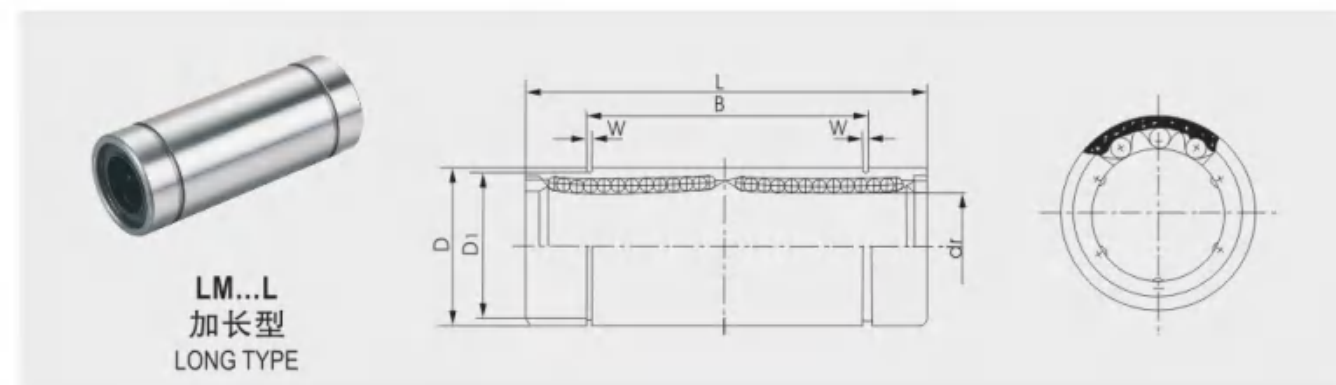
主要尺寸 MAIN DIMENSIONS							径向 跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)	
外止动槽 OUTER LOCKING GROOVE			W	h	h1	θ		动 DYNAMIC C(kgf)	静 STATIC Co(kgf)		
B	公差 TOLERANCE	D1									
0.511" 12.98	0 -0.20	0.4687" 11.906	0.039" 0.992	0.04" 1			0.012	21	27	64	
0.6385" 16.15		0.588" 14.935	0.039" 0.992	0.04" 1				23	32	14	
0.9625" 24.46		0.8209" 20.853	0.0459" 1.168	0.06" 1.5	0.34" 7.9375	80°		52	80	40	25
1.1039" 28.04		1.059" 26.899	0.0559" 1.422	0.06" 1.5	0.375" 9.525	80°		79	120	76	
1.1657" 29.61		0 -0.30	1.176" 29.87	0.0559" 1.422	0.06" 1.5	0.4375" 11.1125	60°	0.015	88	140	90
1.7547" 44.57	1.4687" 37.306		0.0679" 1.727	0.06" 1.5	0.5625" 14.2875	50°	100		160	206	167.5
2.0047" 50.92	1.8859" 47.904		0.0679" 1.727	0.10" 2.54	0.625" 15.875	50°	0.020	160	280	370	304
2.4118" 61.26	2.2389" 56.87		0.859" 2.184	0.12" 3	0.75" 19.05	50°		220	410	584	490
3.1917" 81.07			2.8379" 72.085	0.1029" 2.616	0.12" 3	1" 25.4	50°	0.025	390	810	600

注: SW16钢保持器球列数5列, 工程塑料保持器球列数6列。
SW16AJ钢保持器球列数5列, 工程塑料保持器球列数6列。
SW16OP钢保持器球列数4列, 工程塑料保持器球列数5列。

Annotate: SW16 steel retainer the number of ball rows is 5, POM retainer the number of ball rows is 6.
SW16AJ steel retainer the number of ball rows is 5, POM retainer the number of ball rows is 6.
SW16OP steel retainer the number of ball rows is 4, POM retainer the number of ball rows is 5.

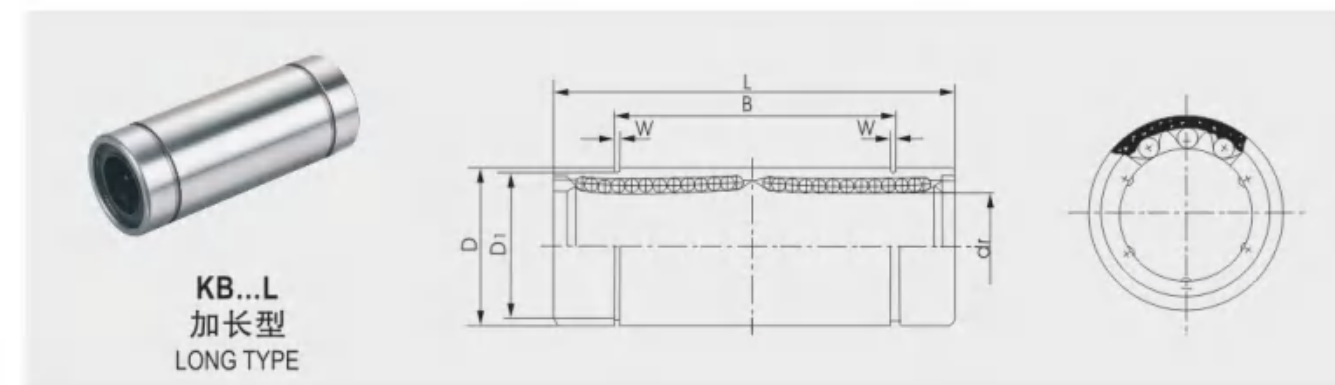


LM加长型直线轴承
LM Long type linear bearing
亚洲系列
Asia series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS										径向跳动 ECCEN- TIRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		外止动槽 OUTER LOCKING GROOVE			W		动 DYNAMIC C(kgf)	静 STATIC Co(kgf)		
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	B	公差 TOLERANCE	D1						
LM5L	4	5	0 -0.010	10	0 -0.011	28	0 -0.30	20.4	0 -0.30	9.6	1.1	0.010	26	41	11	
LM6L	4	6		12	0 -0.013	35		27		11.5	1.1	0.015	33	54	14	
LM8L	4	8		15		45		35		14.3	1.1		44	80	26	
LM10L	4	10		19		0 -0.016		55		44	18		1.3	60	112	55
LM12L	4	12		21				57		46	20		1.3	83	160	58
LM13L	4	13		23				61		46	22		1.3	83	160	77
LM16L	5	16	28	70	53		27	1.6	126	240	147					
LM20L	5	20	0 -0.012	32	0 -0.019	80	0 -0.40	61	0 -0.40	30.5	1.6	0.020	143	280	171	
LM25L	6	25		40		112		82		38	1.85		159	320	400	
LM30L	6	30		45		123		89		43	1.85		254	560	472	
LM35L	6	35	0 -0.015	52	0 -0.022	135	0 -0.40	99	0 -0.40	49	2.1	0.025	270	640	708	
LM40L	6	40		60		151 (154)		121		57	2.1		350	820	1090	
LM50L	6	50		80		192		148		76.5	2.6		620	1622	2800	
LM60L	6	60		0 -0.020		90		0 -0.025		209	170		86.5	3.15	770	2040

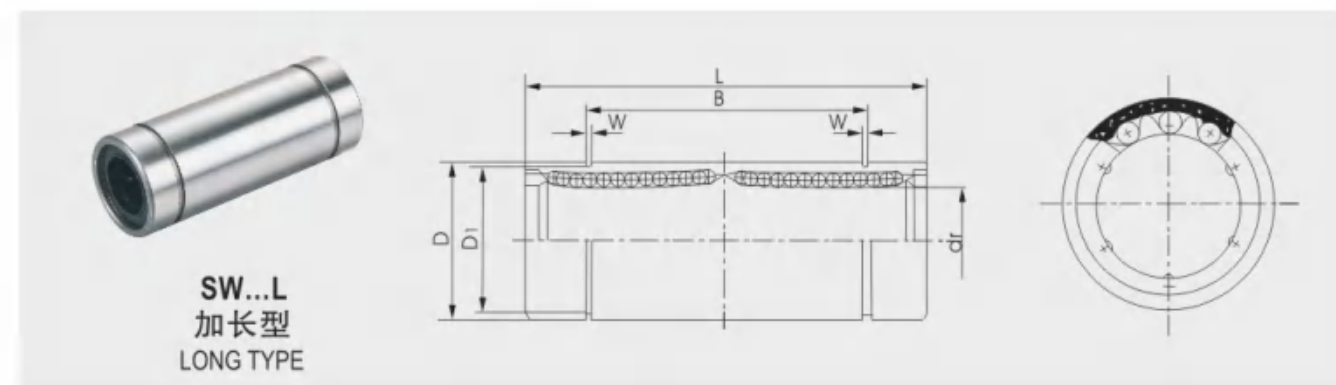
KB加长型直线轴承
KB Long type linear bearing
欧洲系列
Europe series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS									径向 跳动 ECCEN- TIRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (g)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		外止动槽 OUTER LOCKING GROOVE				W	动 DYNAMIC C(kgf)		静 STATIC Co(kgf)
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	B	公差 TOLERANCE	D1					
KB8L	4	8	+0.009 -0.001	16	0 -0.009	46	0 -0.30	33	0 -0.30	15.2	1.1	0.015	43	82	36
KB10L	4	10		19		55		44		18	1.3		60	112	59
KB12L	4	12		22	0 -0.011	61		45.8		21	1.3		83	160	78
KB16L	5	16	+0.011 -0.001	26		68		49.8		24.9	1.3		94	182	97
KB20L	5	20		32		80	61	30.5	1.6		140	280	169		
KB25L	6	25	+0.013 -0.002	40	0 -0.013	112	0 -0.40	82	0 -0.40	38	1.85	0.017	160	320	414
KB30L	6	30		47		123		104.2		44.5	1.85			255	560
KB40L	6	40		62	0 -0.015	151		121.2		59	2.15	0.020	350	820	1310
KB50L	6	50	75		192	155.2	72	2.65		620	1622		2500		
KB60L	6	60		90	0 -0.020	209		170		86.5	3.15	0.025	770	2040	3700



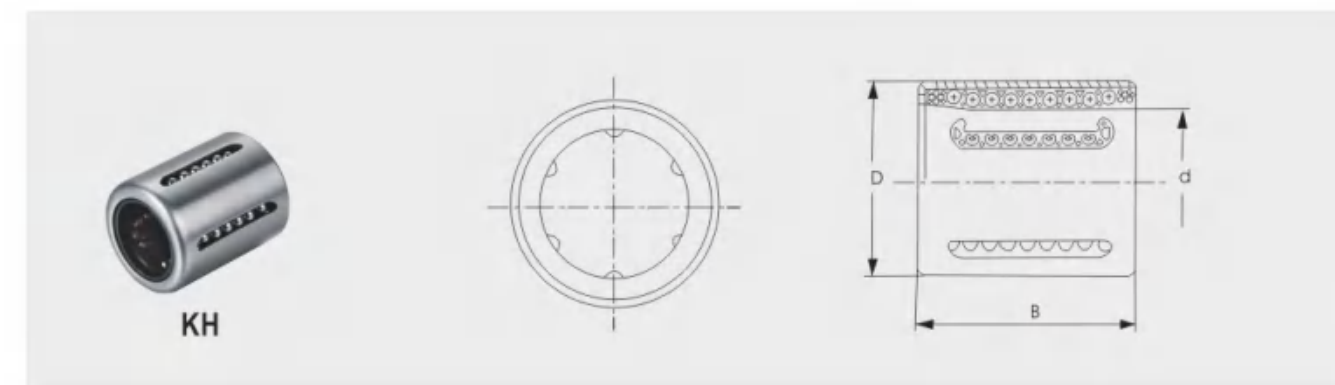
SW加长型直线轴承
SW Long type linear bearing
英制系列
Inch system series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS										径向跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING			
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		外止动槽 OUTER LOCKING GROOVE					W	动 DYNAMIC C(kgf)	静 STATIC Co(kgf)	重量 WEIGHT (g)
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	B	公差 TOLERANCE	D1						
SW4L	3	1/4" 6.35	0 -0.011	0.5" 12.7	0 -0.013	1.375" 34.925	0 -0.30	1.022" 25.959	0 -0.30	0.4687" 11.906	0.039" 0.992	0.015	33	54	14	
SW6L	4	3/8" 9.525		0.625" 15.875	0 -0.016	1.5938" 40.481		1.2716" 32.298		0.588" 14.935	0.039" 0.992		36	64	30	
SW8L	4	1/2" 12.7		0.875" 22.225		2.375" 60.325		1.925" 48.895		0.8209" 20.853	0.0459" 1.168		83	160	82	
SW10L	4	5/8" 15.875		1.125" 28.575		2.8125" 71.438		2.2079" 56.08		1.059" 26.899	0.0559" 1.422		126	240	156	
SW12L	5	3/4" 19.05	0 -0.012	1.25" 31.75	0 -0.019	3.0937" 78.581	0 -0.40	2.3314" 59.218	0 -0.40	1.176" 29.87	0.0559" 1.422	0.020	140	280	184	
SW16L	6	1" 25.4		1.5625" 39.688		4.2813" 108.744		3.5094" 89.139		1.4687" 37.306	0.0679" 1.727		160	320	418	
SW20L	6	1-1/4" 31.75	0 -0.015	2" 50.8	0 -0.022	5" 127	0 -0.40	4.0094" 101.839	0 -0.40	1.8859" 47.904	0.0679" 1.727	0.025	255	360	746	
SW24L	6	1-1/2" 38.1		2.375" 60.325		5.6875" 144.463		4.8236" 122.519		2.2389" 56.87	0.859" 2.184		350	820		
SW32L	6	2" 50.8		3" 76.2	0 -0.025	7.75" 196.85		6.3834" 162.138		2.8379" 72.085	0.1029" 2.616	0.030	620	1622	1206	

注: SW16L钢保持器球列数5列, 工程塑料保持器球列数6列。
Annotate: SW16L steel retainer the number of ball rows is 5, POM retainer the number of ball rows is 6.

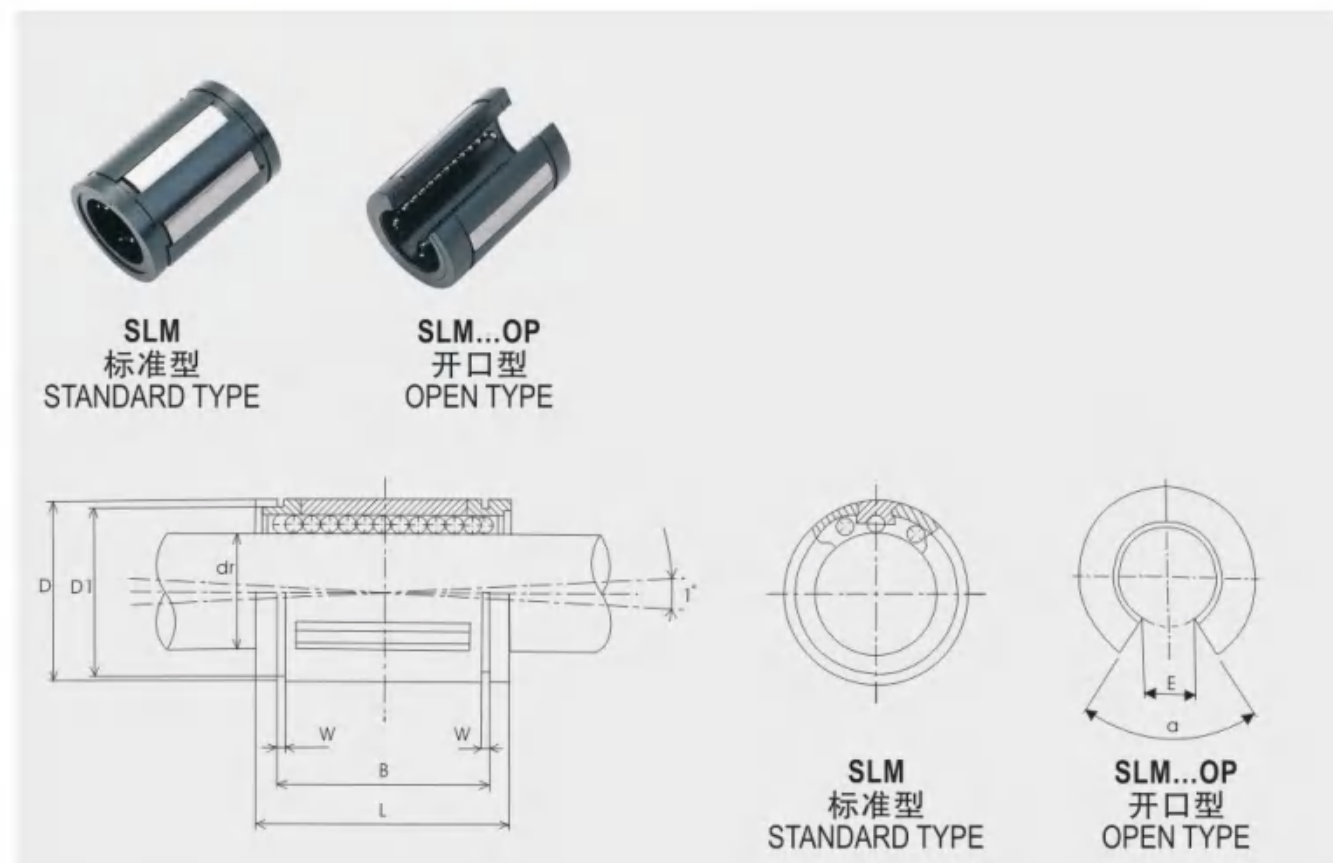
KH迷你型(冲压套圈)直线轴承
KH Mini (pressing bush) linear bearing



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS			基本额定载荷 BASIC LOAD RATING		重量 WEIGHT(g)
					动 DYNAMIC C(kgf)	静 STATIC Co(kgf)	
		d	D	B			
KH0824	4	8	15	24	44	29	11.3
KH1026	4	10	17	26	51	38	14.4
KH1228	5	12	19	28	63	52	18.1
KH1428	5	14	21	28	63	52	20.6
KH1630	5	16	24	30	82	63	27.2
KH2030	6	20	28	30	97	81	32.7
KH2540	6	25	35	40	203	170	66
KH3050	7	30	40	50	286	276	95
KH4060	8	40	52	60	449	454	180
KH5070	9	50	62	70	561	643	250



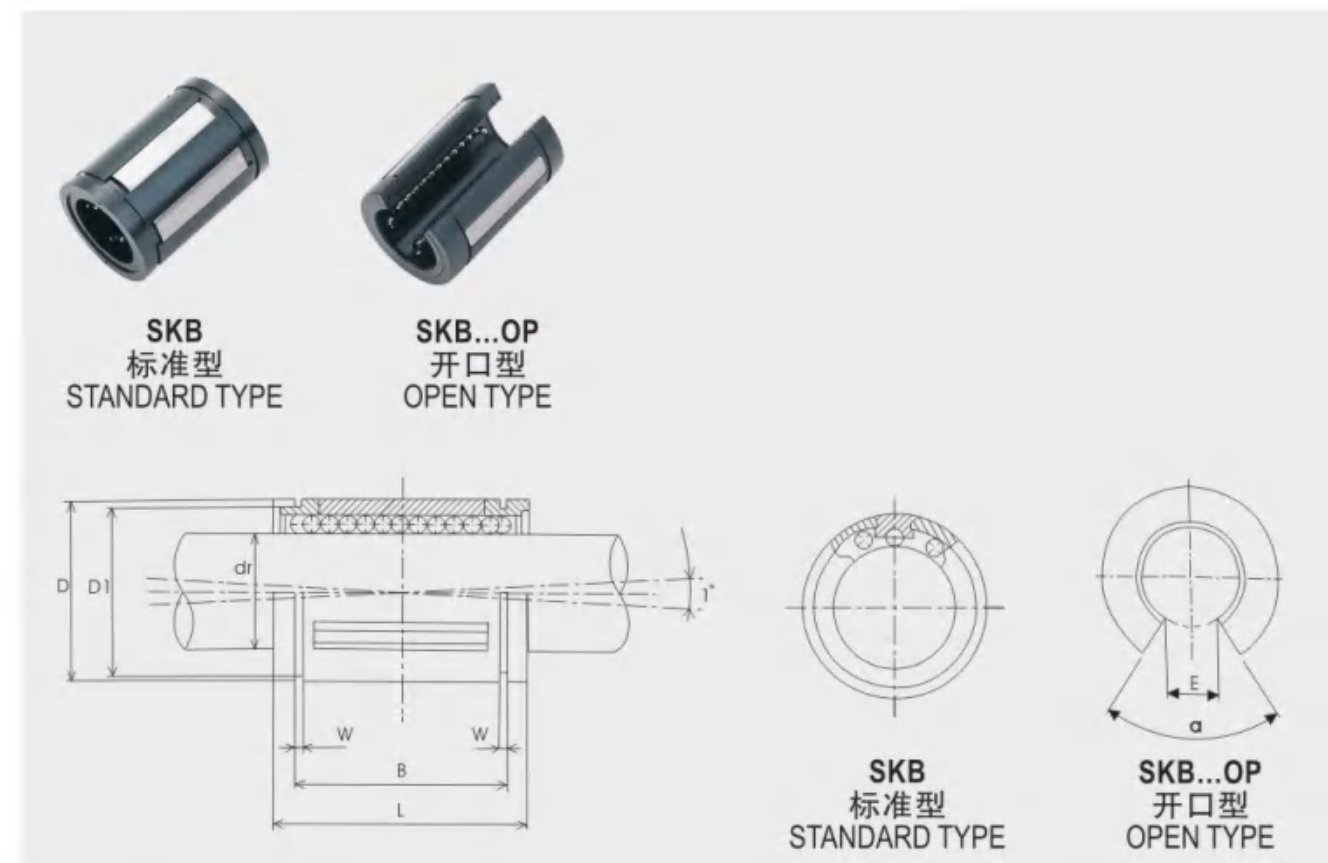
SLM超级型直线轴承
SLM Super type linear bearing
亚洲系列
Asia series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS								基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
				dr	D	L	D1	B	W	E	α	动 DYNAMIC C(kgf)	静 STATIC Co(kgf)		
SLM16	5	SLM16OP	4	16	28	37	27	26.5	1.6	11	80°	153	128	0.0415	0.0345
SLM20	6	SLM20OP	5	20	32	42	30.5	30.5	1.6	11	60°	263	170	0.0655	0.055
SLM25	6	SLM25OP	5	25	40	59	38	41	1.85	12	50°	388	281	0.134	0.114
SLM30	6	SLM30OP	5	30	45	64	43	44.5	1.85	15	50°	481	286	0.152	0.130
SLM40	6	SLM40OP	5	40	60	80	57	60.5	2.1	20	50°	663	584		
SLM50	6	SLM50OP	5	50	80	100	76.5	74	2.6	25	50°	1169	810		

注: SLM轴承可以和LM轴承互换。
SLM...OP轴承可以和LM...OP轴承互换。
Annotate: SLM type can crossing-over with LM.
SLM...OP type can crossing-over with LM...OP.

SKB超级型直线轴承
SKB Super type linear bearing
欧洲系列
Europe series

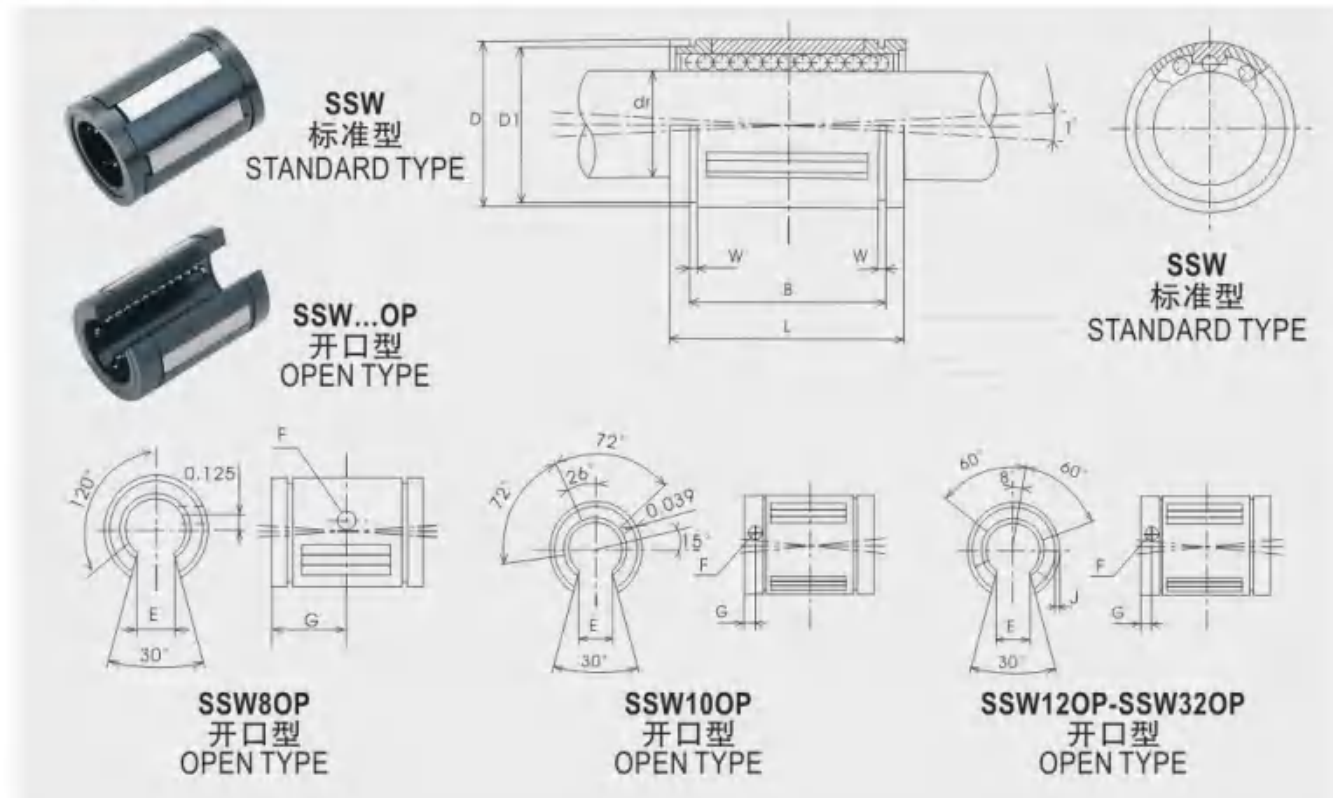


型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS								基本额定载荷 BASIC LOAD RATING				重量 WEIGHT (Kg)	
				dr	D	L	D1	B	W	E	α	动 DYNAMIC C(kgf)	静 STATIC Co(kgf)	动 DYNAMIC C(kgf)	静 STATIC Co(kgf)		
SKB12	5			12	22	32	21	22.7	1.35			126	112			0.021	
SKB16	5	SKB16OP	4	16	26	36	24.9	24.7	1.35	9	68°	153	128	167	135	0.043	0.035
SKB20	6	SKB20OP	5	20	32	45	30.3	31.3	1.65	9	55°	263	170	268	176	0.058	0.048
SKB25	6	SKB25OP	5	25	40	58	37.5	43.8	1.90	11.5	57°	388	281	399	291	0.123	0.103
SKB30	6	SKB30OP	5	30	47	68	44.5	51.8	1.90	14	57°	481	286	495	296	0.216	0.177
SKB40	6	SKB40OP	5	40	62	80	59	60.4	2.20	19.5	56°	663	584	684	602	0.333	0.275
SKB50	6	SKB50OP	5	50	75	100	72	77.4	2.70	22.5	54°	1169	810	1194	827	0.618	0.520

注: SKB轴承可以和KB轴承互换。
SKB...OP轴承可以和KB...OP轴承互换。
Annotate: SKB type can crossing-over with LM.
SKB...OP type can crossing-over with KB...OP.



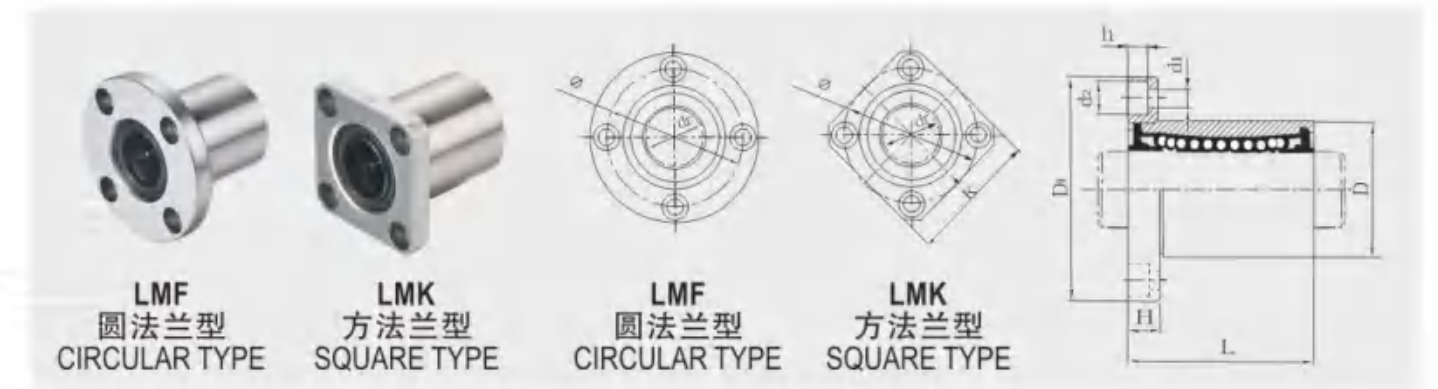
SSW超级型直线轴承
SSW Super type linear bearing
英制系列
Inch system series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS										基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)
				dr	D	L	D1	B	W	E	F	G	J	动 DYNAMIC C(kgf)	静 STATIC Co(kgf)	
SSW4	4			1/4" 6.35	0.5" 12.7	0.75" 19.05	0.4687" 11.906	0.515" 13.081	0.039" 0.991					27	36	0.005
SSW6	4			3/8" 9.525	0.625" 15.875	0.875" 22.225	0.588" 14.935	0.703" 17.856	0.039" 0.991					43	55	0.007
SSW8	4	SSW8OP	4	1/2" 12.7	0.875" 22.225	1.25" 31.75	0.8209" 20.85	1.032" 26.213	0.0459" 1.166	0.313" 7.95	0.136" 3.45	0.625" 15.875	Thru	104	132	0.023
SSW10	5	SSW10OP	4	5/8" 15.875	1.125" 28.575	1.5" 38.1	1.059" 26.899	1.112" 28.245	0.0559" 1.42	0.375" 9.525	0.105" 2.667	0.125" 3.175	0.039" 0.991	182	228	0.035
SSW12	5	SSW12OP	5	3/4" 19.05	1.25" 31.75	1.625" 41.275	1.176" 29.87	1.272" 32.309	0.0559" 1.42	0.438" 11.125	0.136" 3.454	0.125" 3.175	0.059" 1.499	213	268	0.07
SSW16	6	SSW16OP	5	1" 25.4	1.5625" 39.688	2.25" 57.15	1.4687" 37.305	1.886" 47.904	0.0679" 1.725	0.563" 14.3	0.136" 3.454	0.125" 3.175	0.047" 1.194	386	481	0.142
SSW20	6	SSW20OP	5	1-1/4" 31.75	2" 50.8	2.625" 66.675	1.8859" 47.9	2.011" 51.079	0.0679" 1.725	0.625" 15.875	0.201" 5.105	0.1875" 4.763	0.09" 2.286	558	695	0.27
SSW24	6	SSW24OP	5	1-1/2" 38.1	2.375" 60.325	3" 76.2	2.2389" 56.868	2.422" 61.519	0.0859" 2.185	0.75" 19.05	0.201" 5.105	0.1875" 4.763	0.09" 2.286	672	840	0.371
SSW32	6	SSW32OP	5	2" 50.8	3" 76.2	4" 101.6	2.8379" 72.083	3.206" 81.432	0.1029" 2.614	1" 25.4	0.265" 6.731	0.3125" 7.938	Thru	1102	1377	0.64

注: SSW轴承可以和SW轴承互换
SSW...OP轴承可以和SW...OP轴承互换
Annotate: SSW type can crossing-over with SW.
SSW...OP type can crossing-over with SW...OP.

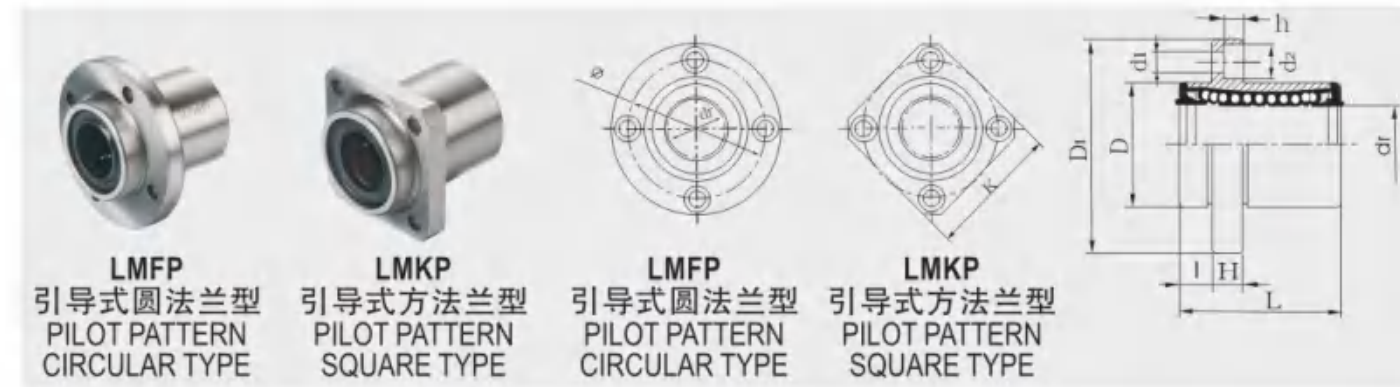
LMF圆法兰型直线轴承
LMF Circular flange type linear bearing
LMK方法兰型直线轴承
LMK Square flange type linear bearing
亚洲系列
Asia series



型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS													法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TIRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
			内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT					动 DYNAMIC C(kgf)	静 STATIC Co(kgf)		
			dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	D1	K	H	Φ	d1	d2	h						
LMF6	LMK6	4	6	0 -0.009	12	0	19	0 -0.20	28	22	5	20	3.5	6	3.1	0.012	0.012	21	27	0.022	0.017
LMF8S	LMK8S	4	8		15	-0.011	17		32	25	5	24	3.5	6	3.1			18	22		
LMF8	LMK8	4	8		15		24		32	25	5	24	3.5	6	3.1			28	40	0.035	0.027
LMF10	LMK10	4	10		19	0	29		40	30	6	29	4.5	7.5	4.1			38	56	0.066	0.047
LMF12	LMK12	4	12		21	-0.013	30		42	32	6	32	4.5	7.5	4.1			52	80	0.070	0.053
LMF13	LMK13	4	13		23		32		43	34	6	33	4.5	7.5	4.1			52	80	0.079	0.064
LMF16	LMK16	5	16		28		37		48	37	6	38	4.5	7.5	4.1			79	120	0.122	0.102
LMF20	LMK20	5	20	0 -0.010	32	0	42	0 -0.30	54	42	8	43	5.5	9	5.1	0.015	0.015	90	140	0.163	0.12
LMF25	LMK25	6	25		40	-0.016	59		62	50	8	51	5.5	9	5.1			100	160	0.311	0.272
LMF30	LMK30	6	30		45		64		74	58	10	60	6.6	11	6.1			160	280	0.42	0.34
LMF35	LMK35	6	35	0 -0.012	52	0	70	0 -0.30	82	64	10	67	6.6	11	6.1	0.020	0.020	170	320	0.60	0.496
LMF40	LMK40	6	40		60	-0.019	80		96	75	13	78	9	14	8.1			220	410	0.749	0.773
LMF50	LMK50	6	50		80		100		116	92	13	98	9	14	8.1			390	810	1.96	1.72
LMF60	LMK60	6	60	0 -0.015	90	0 -0.022	110		134	106	18	112	11	17.5	10.8	0.025	0.025	480	1020	2.70	2.25

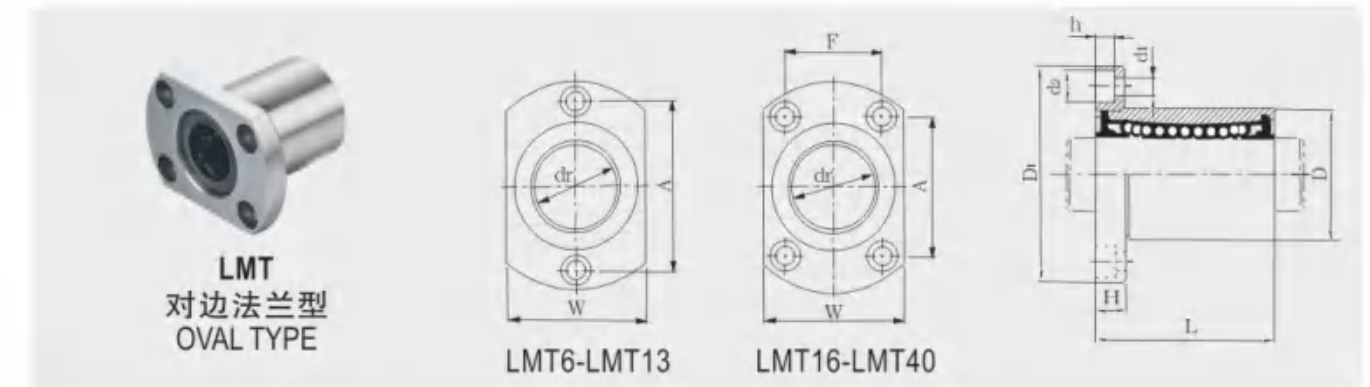


LMFP引导式圆法兰型直线轴承
LMFP Pilot pattern circular flange type linear bearing
LMKP引导式方法兰型直线轴承
LMKP Pilot pattern square flange type linear bearing
亚洲系列
Asia series



型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS													法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)		
			内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		I	法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT				动 DYNAMIC C(kgf)	静 STATIC Co(kgf)			
			dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE		D1	K	H	Φ	d1	d2					h		
LMFP6	LMKP6	4	6	0 -0.009	12	0 -0.013	19	0 -0.20	5	28	22	5	20	3.5	6	3.1	0.012	0.012	21	27	0.022	0.017
LMFP8	LMKP8	4	8		15		24		5	32	25	5	24	3.5	6	3.1			28	40	0.035	0.027
LMFP10	LMKP10	4	10		19		29		6	40	30	6	29	4.5	7.5	4.1			38	56	0.065	0.047
LMFP12	LMKP12	4	12		21	0 -0.016	30		6	42	32	6	32	4.5	7.5	4.1			52	80	0.072	0.053
LMFP13	LMKP13	4	13		23		32		6	43	34	6	33	4.5	7.5	4.1			52	80	0.079	0.064
LMFP16	LMKP16	5	16		28		37		6	48	37	6	38	4.5	7.5	4.1			79	120	0.123	0.102
LMFP20	LMKP20	5	20	0 -0.010	32	0 -0.019	42	0 -0.30	8	54	42	8	43	5.5	9	5.1	0.015	0.015	90	140	0.161	0.129
LMFP25	LMKP25	6	25		40		59		8	62	50	8	51	5.5	9	5.1			100	160	0.309	0.272
LMFP30	LMKP30	6	30		45		64		10	74	58	10	60	6.6	11	6.1			160	280	0.42	0.34
LMFP35	LMKP35	6	35	0 -0.012	52		70		10	82	64	10	67	6.6	11	6.1	170	320	0.60	0.496		
LMFP40	LMKP40	6	40		60	0 -0.022	80		13	96	75	13	78	9	14	8.1	220	410	0.749	0.773		
LMFP50	LMKP50	6	50		80		100		13	116	92	13	98	9	14	8.1	390	810	1.96	1.72		
LMFP60	LMKP60	6	60	0 -0.015	90	0 -0.025	110		18	134	106	18	112	11	17.5	10.8	0.025	0.025	480	1020	2.80	2.70

LMT对边法兰型直线轴承
LMT Oval flange type linear bearing
亚洲系列
Asia series



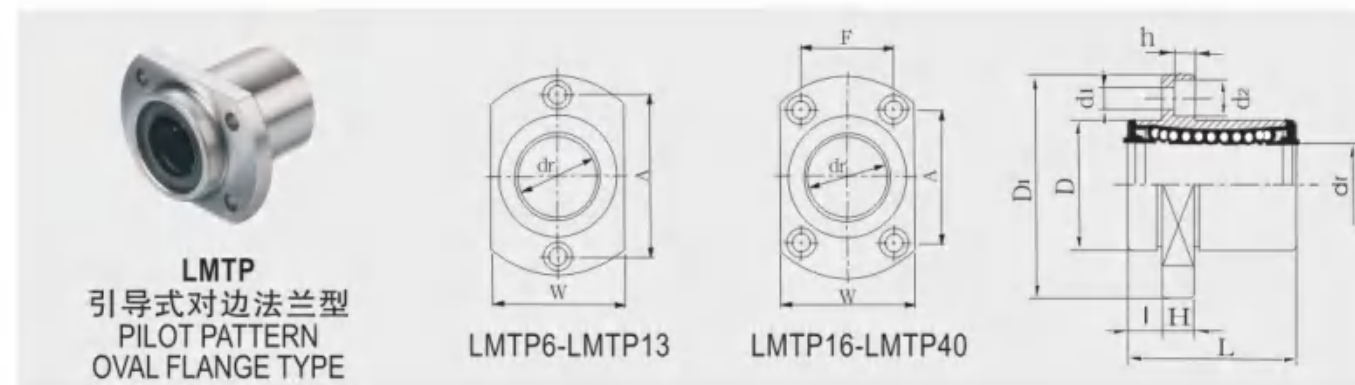
型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS														法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT						动 DYNAMIC C(kgf)	静 STATIC Co(kgf)		
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	D1	W	H	A	F	d1	d2	h						
LMT6	4	6	0 -0.009	12	0 -0.011	19	0 -0.20	28	18	5	20		3.5	6	3.1	0.012	0.012	21	27	0.019	
LMT8	4	8		15				24	32	21	5	24		3.5	6			3.1	27	41	0.029
LMT10	4	10		19				29	40	25	6	29		4.5	7.5			4.1	38	56	0.054
LMT12	4	12		21		0 -0.013		30	42	27	6	32		4.5	7.5			4.1	42	61	0.058
LMT13	4	13		23				32	43	29	6	33		4.5	7.5			4.1	52	79	0.072
LMT16	5	16		28				37	48	34	6	31	22	4.5	7.5			4.1	79	120	0.109
LMT20	5	20	32	0 -0.010	42		54	38	8	36	24	5.5	9	5.1	0.015	0.015	88	140	0.135		
LMT25	6	25	40		0 -0.016	59	62	46	8	40	32	5.5	9	5.1			100	160	0.28		
LMT30	6	30	45			64	74	51	10	49	35	6.6	11	6.1			160	280	0.35		
LMT35	6	35	0 -0.012	52	0 -0.019	70	82	60(58)	10	55	38	6.6	11	6.1	0.020	0.020	170	320	0.524		
LMT40	6	40		60		80	96	70(66)	13	64	45	9	14	8.1			220	410	0.836		

注：需要括号内尺寸请提前说明



LMT6引导式对边法兰型直线轴承
LMT6 Pilot pattern oval flange type

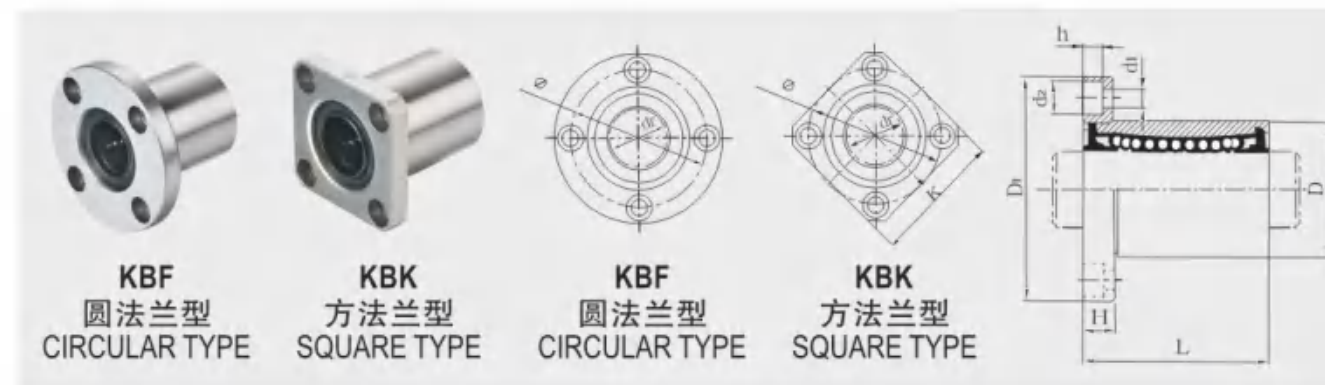
亚洲系列
Asia series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS														法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)		
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		I	法兰 FLANGE					连接孔 HOLE FOR ATTACHMENT				动 DYNAMIC C(kgf)	静 STATIC Co(kgf)			
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE		D1	W	H	A	F	d1	d2						h	
LMT6	4	6	0 -0.009	12	0 -0.013	19	0 -0.20	5	28	18	5	20		3.5	6	3.1	0.012	0.012	21	27	0.019	
LMT8	4	8		15		24		5	32	21	5	24		3.5	6	3.1			27	41	0.028	
LMT10	4	10		19		29		6	40	25	6	29		4.5	7.5	4.1			38	56	0.057	
LMT12	4	12		21	0 -0.016	30		6	42	27	6	32		4.5	7.5	4.1			42	61	0.062	
LMT13	4	13		23		32		6	43	29	6	33		4.5	7.5	4.1			52	79	0.072	
LMT16	5	16		28		37		6	48	34	6	31	22	4.5	7.5	4.1			79	120	0.105	
LMT20	5	20	0 -0.010	32	0 -0.019	42	0 -0.30	8	54	38	8	36	24	5.5	9	5.1	0.015	0.015	88	140	0.146	
LMT25	6	25		40				59	8	62	46	8	40	32	5.5	9			5.1	100	160	0.22
LMT30	6	30		45				64	10	74	51	10	49	35	6.6	11			6.1	160	280	0.37
LMT35	6	35	0 -0.012	52	0 -0.022	70		10	82	60(58)	10	55	38	6.6	11	6.1	0.020	0.020	170	320	0.52	
LMT40	6	40		60			80	13	96	70(66)	13	64	45	9	14	8.1			220	410	0.828	

注：需要括号内尺寸请提前说明

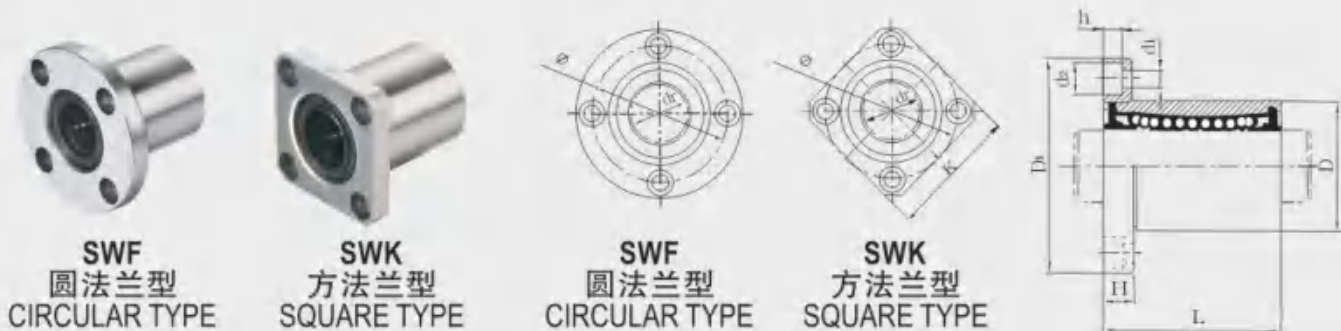
KBF圆法兰型直线轴承
KBF Circular flange type
KBK方法兰型直线轴承
KBK Square flange type
欧洲系列
Europe series



型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS													法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
			内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT					动 DYNAMIC C(kgf)	静 STATIC Co(kgf)		
			dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	D1	K	H	Φ	d1	d2	h						
KBF5	KBK5	4	5	+0.008	12	0 -0.008	22	0 -0.20	28	22	5	20	3.5	6	3.1	0.012	0.012	21	27		
KBF8	KBK8	4	8		16	25	32		25	5	24	3.5	6	3.1	27			41	0.039	0.039	
KBF10	KBK10	4	10		19	29	40		30	6	29	4.5	7.5	4.1	38			56	0.055	0.048	
KBF12	KBK12	4	12		22	32	42		32	6	32	4.5	7.5	4.1	52			80	0.079	0.062	
KBF16	KBK16	5	16	+0.009 -0.001	26	0 -0.009	36	0 -0.30	46	35	6	36	4.5	7.5	4.1	0.015	0.015	59	91	0.106	0.074
KBF20	KBK20	5	20	32	45	54	42		8	43	5.5	9	5.1	88	140			0.171	0.137		
KBF25	KBK25	6	25	+0.011 -0.001	40	0 -0.011	58		62	50	8	51	5.5	9	5.1			100	160	0.308	0.265
KBF30	KBK30	6	30	47	68	76	60		10	62	6.6	11	6.1	160	280			0.594	0.430		
KBF40	KBK40	6	40	+0.013 -0.002	62	0 -0.013	80	0 -0.40	98	75	13	80	9	14	8.1	0.017	0.017	220	410	1.098	0.880
KBF50	KBK50	6	50		75	100	112		88	13	94	9	14	8.1	390			810	1.67	1.46	
KBF60	KBK60	6	60		90	0 -0.015	125		134	106	18	112	11	17.5	10.8			480	1000	3.00	2.60



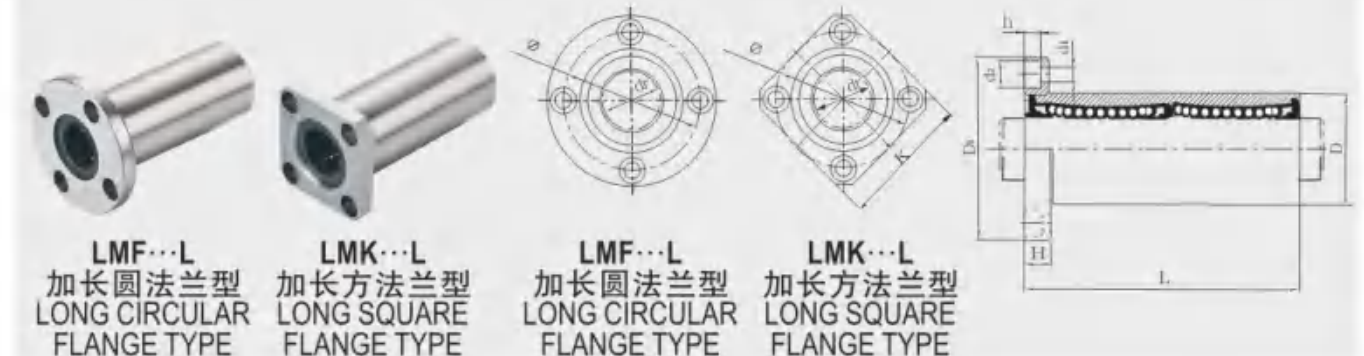
SWF圆法兰型直线轴承
SWF Circular flange type linear bearing
SWK方法兰型直线轴承
SWK Square flange type linear bearing
英制系列
Inch system series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS													法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
		内径 INScribed CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT					动 DYNAMIC C(kgf)	静 STATIC Co(kgf)	K	F
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	D1	K	H	Φ	d1	d2	h						
SWF4 SWK4	4	1/4" 6.35	0 -0.009	0.5" 12.7	0 -0.011	0.75" 19.05	0 -0.20	1.25" 31.75	1" 25.4	0.219" 5.556	0.875" 22.225	0.156" 3.969	0.25" 6.35	0.141" 3.572	0.012	0.012	21	27	0.0245	0.03
SWF6 SWK6	4	3/8" 9.525		0.625" 15.875	0.875" 22.225	1.5" 38.1		1.25" 31.75	0.25" 6.35	1.062" 26.988	0.1875" 4.763	0.297" 7.541	0.172" 4.366	23			32	0.0293	0.037	
SWF8 SWK8	4	1/2" 12.7		0.875" 22.225	0 -0.013	1.25" 31.75		1.75" 44.45	1.375" 34.925	0.25" 6.35	1.312" 33.338	0.1875" 4.763	0.297" 7.541	0.172" 4.366			52	80	0.0637	0.80
SWF10 SWK10	4	5/8" 15.875		1.125" 28.575	1.5" 38.1	2" 50.8		1.5" 38.1	0.25" 6.35	1.562" 39.688	0.1875" 4.763	0.297" 7.541	0.172" 4.366	79			120	0.1055	0.127	
SWF12 SWK12	4	3/4" 19.05	0 -0.010	1.25" 31.75	0 -0.016	1.625" 41.275	0 -0.30	2.1875" 55.563	1.6875" 42.863	0.3125" 7.938	1.718" 43.66	0.2187" 5.556	0.344" 8.731	0.203" 5.159	0.015	0.015	88	140	0.136	0.173
SWF16 SWK16	6	1" 25.4		1.5625" 39.688	2.25" 57.15	2.5" 63.5		2" 50.8	0.3125" 7.938	2.031" 51.594	0.2187" 5.556	0.344" 8.731	0.203" 5.159	100			160	0.263	0.303	
SWF20 SWK20	6	1-1/4" 31.75	-0.012	2" 50.8	0 -0.019	2.625" 66.675	0 -0.30	3.125" 79.375	2.5" 63.5	0.375" 9.525	2.5625" 65.088	0.2812" 7.144	0.406" 10.319	0.2656" 6.747	0.020	0.020	160	280	0.493	0.585
SWF24 SWK24	6	1-1/2" 38.1		2.375" 60.325	3" 76.2	3.75" 95.25		3" 76.2	0.5" 12.7	3.0625" 77.788	0.344" 8.731	0.5" 12.7	0.328" 8.334	222			410	0.808	0.992	
SWF32 SWK32	6	2" 50.8		3" 76.2	0 -0.022	4" 101.6		4.375" 111.125	3.5" 88.9	0.5" 12.7	3.6875" 93.662	0.344" 8.731	0.5" 12.7	0.328" 8.334			390	810	1.505	1.705

注: SWF16钢保持器球列数5列, 工程塑料保持器球列数6列。
Annotate: SWF16L steel retainer the number of ball rows is 5, POM retainer the number of ball rows is 6.

LMF加长圆法兰型直线轴承
LMF Long circular flange type linear bearing
LMK加长方法兰型直线轴承
LMK Long square flange type linear bearing
亚洲系列
Asia series

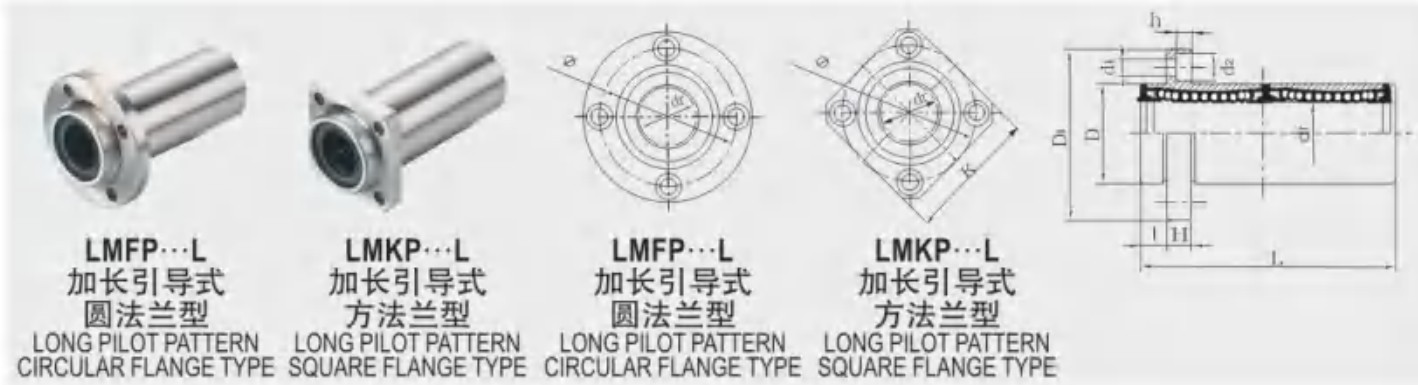


型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS													法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
			内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT					动 DYNAMIC C(kgf)	静 STATIC Co(kgf)	F	K
			dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	D1	K	H	Φ	d1	d2	h						
LMF6L	LMK6L	4	6	0 -0.01	12	0 -0.013	35	0 -0.30	28	22	5	20	3.5	6	3.1	0.015	0.015	33	54	0.031	0.023
LMF8L	LMK8L	4	8		15	45	32		25	5	24	3.5	6	3.1	44			80	0.048	0.043	
LMF10L	LMK10L	4	10		19	55	40		30	6	29	4.5	7.5	4.1	60			112	0.089	0.074	
LMF12L	LMK12L	4	12		21	57	42		32	6	32	4.5	7.5	4.1	83			160	0.095	0.08	
LMF13L	LMK13L	4	13		23	61	43		34	6	33	4.5	7.5	4.1	83			160	0.12	0.11	
LMF16L	LMK16L	5	16		28	70	48		37	6	38	4.5	7.5	4.1	126			240	0.19	0.157	
LMF20L	LMK20L	5	20	0 -0.012	32	0 -0.019	80	0 -0.40	54	42	8	43	5.5	9	5.1	0.020	0.020	143	280	0.25	0.213
LMF25L	LMK25L	6	25		40		112		62	50	8	51	5.5	9	5.1			159	320	0.507	0.473
LMF30L	LMK30L	6	30		45		123		74	58	10	60	6.6	11	6.1			254	560	0.643	0.57
LMF35L	LMK35L	6	35	0 -0.015	52	0 -0.022	135	0 -0.40	82	64	10	67	6.6	11	6.1	0.025	0.025	270	640	0.95	0.91
LMF40L	LMK40L	6	40		60		151 154		96	75	13	78	9	14	8.1			350	820	1.48	1.31
LMF50L	LMK50L	6	50		80		192		116	92	13	98	9	14	8.1			620	1622	3.79	3.10
LMF60L	LMK60L	6	60		90		209		134	106	18	112	11	17.5	10.8			770	2040	4.40	3.5



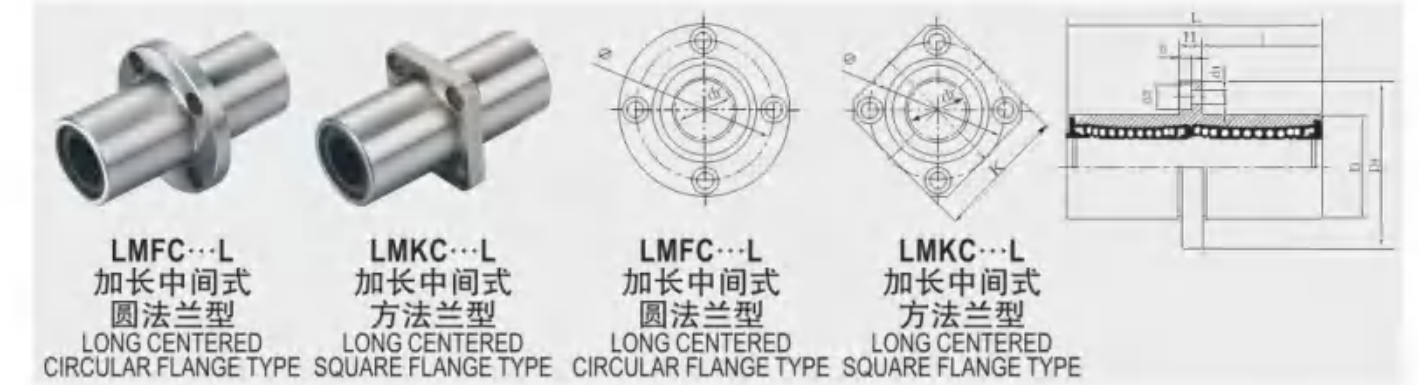
LMFP...L加长引导式圆法兰型直线轴承
LMFP...L Long pilot pattern circular flange type
LMKP...L加长引导式方法兰型直线轴承
LMKP...L Long pilot pattern square flange type

亚洲系列
Asia Series



LMFC...L加长中间式圆法兰型直线轴承
LMFC...L Long centered circular flange type
LMKC...L加长中间式方法兰型直线轴承
LMKC...L Long centered square flange type

亚洲系列
Asia Series



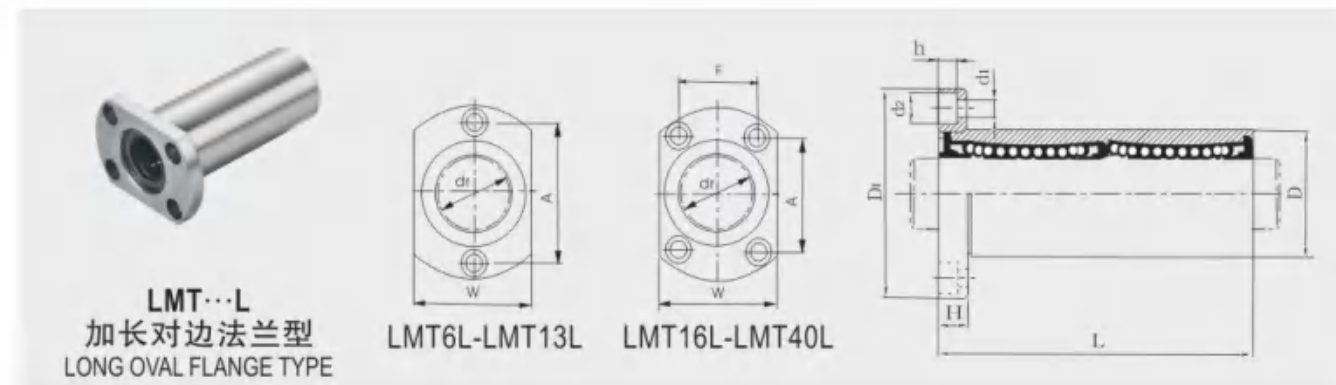
型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS														法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
			内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		I	法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT					动 DYNAMIC C(kgf)	静 STATIC Co(kgf)	F	K
			dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE		D1	K	H	Φ	d1	d2	h						
LMFP6L	LMKP6L	4	6	0 -0.01	12	0 -0.013	35	0 -0.30	5	28	22	5	20	3.5	6	3.1	0.015	0.015	33	54	0.028	0.02
LMFP8L	LMKP8L	4	8		15		45		5	32	25	5	24	3.5	6	3.1			44	80	0.045	0.04
LMFP10L	LMKP10L	4	10		19		55		6	40	30	6	29	4.5	7.5	4.1			60	112	0.080	0.07
LMFP12L	LMKP12L	4	12		21	0 -0.016	57		6	42	32	6	32	4.5	7.5	4.1			83	160	0.094	0.08
LMFP13L	LMKP13L	4	13		23		61		6	43	34	6	33	4.5	7.5	4.1			83	160	0.119	0.10
LMFP16L	LMKP16L	5	16		28		70		6	48	37	6	38	4.5	7.5	4.1			126	240	0.184	0.17
LMFP20L	LMKP20L	5	20	0 -0.012	32	0 -0.019	80	0 -0.40	8	54	42	8	43	5.5	9	5.1	0.020	0.020	143	280	0.246	0.20
LMFP25L	LMKP25L	6	25		40		112		8	62	50	8	51	5.5	9	5.1			159	320	0.500	0.46
LMFP30L	LMKP30L	6	30		45		123		10	74	58	10	60	6.6	11	6.1			254	560	0.600	0.55
LMFP35L	LMKP35L	6	35	0 -0.015	52	0 -0.022	135	0.025	10	82	64	10	67	6.6	11	6.1	0.025	0.025	270	640	0.975	0.87
LMFP40L	LMKP40L	6	40		60		151 (154)		13	96	75	13	78	9	14	8.1			350	820	1.500	0.36
LMFP50L	LMKP50L	6	50		80		192		13	116	92	13	98	9	14	8.1			620	1622	3.440	3.20
LMFP60L	LMKP60L	6	60		90	0 -0.025	209		18	134	106	18	112	11	17.5	10.8			770	2040	4.380	3.99

型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS															法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
			内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		I	法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT			动 DYNAMIC C(kgf)			静 STATIC Co(kgf)	F	K	
			dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE		D1	K	H	Φ	d1	d2	h							
LMFC6L	LMKC6L	4	6	0 -0.01	12	0 -0.013	35	0 -0.30	15	28	22	5	20	3.5	6	3.1	0.015	0.015	33	54	0.028	0.020	
LMFC8L	LMKC8L	4	8		15	45	20		32	25	5	24	3.5	6	3.1	44			80	0.053	0.039		
LMFC10L	LMKC10L	4	10		19	55	24.5		40	30	6	29	4.5	7.5	4.1	60			112	0.086	0.073		
LMFC12L	LMKC12L	4	12		21	57	25.5		42	32	6	32	4.5	7.5	4.1	83			160	0.095	0.080		
LMFC13L	LMKC13L	4	13		23	61	27.5		43	34	6	33	4.5	7.5	4.1	83			160	0.119	0.104		
LMFC16L	LMKC16L	5	16		28	70	32		48	37	6	38	4.5	7.5	4.1	126			240	0.170	0.168		
LMFC20L	LMKC20L	5	20	0 -0.012	32	0 -0.019	80	0 -0.40	36	54	42	8	43	5.5	9	5.1	0.020	0.020	143	280	0.244	0.205	
LMFC25L	LMKC25L	6	25		40	112	52		62	50	8	51	5.5	9	5.1	159			320	0.506	0.470		
LMFC30L	LMKC30L	6	30		45	123	56.5		74	58	10	60	6.6	11	6.1	254			560	0.670	0.560		
LMFC35L	LMKC35L	6	35	0 -0.015	52	0 -0.022	135	0.025	62.5	82	64	10	67	6.6	11	6.1	0.025	0.025	270	640	0.933	0.800	
LMFC40L	LMKC40L	6	40		60	151 (154)	69 70.5		96	75	13	78	9	14	8.1	350			820	1.495	1.360		
LMFC50L	LMKC50L	6	50		80	192	89.5		116	92	13	98	9	14	8.1	620			1622	3.440	3.200		
LMFC60L	LMKC60L	6	60	0 -0.020	90	0 -0.025	209		95.5	134	106	18	112	11	17.5	11.1	0.030	0.030	770	2040	4.380	3.900	



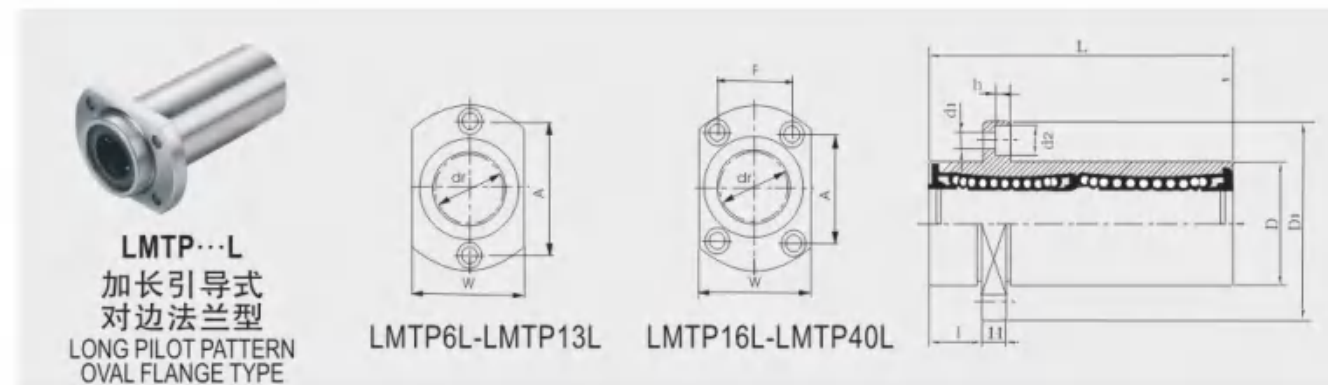
LMT...L加长对边法兰型直线轴承
LMT...L Long oval flange type

亚洲系列
Asia Series



LMTP...L加长引导式对边法兰型直线轴承
LMTP...L Long pilot pattern oval flange type

亚洲系列
Asia Series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS														法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		法兰 FLANGE					连接孔 HOLE FOR ATTACHMENT					动 DYNAMIC C(kgf)	静 STATIC Co(kgf)	
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	D1	W	H	A	F	d1	d2	h					
LMT6L	4	6	0 -0.010	12	0 -0.013	35	0 -0.30	28	18	5	20		3.5	6	3.1	0.015	0.015	33	54	0.025
LMT8L	4	8		15	45	32		21	5	24		3.5	6	3.1	44			80	0.041	
LMT10L	4	10		19	55	40		25	6	29		4.5	7.5	4.1	67			112	0.080	
LMT12L	4	12		21	57	42		27	6	32		4.5	7.5	4.1	83			160	0.087	
LMT13L	4	13		23	61	43		29	6	33		4.5	7.5	4.1	83			160	0.107	
LMT16L	5	16		28	70	48		34	6	31	22	4.5	7.5	4.1	125			240	0.171	
LMT20L	5	20	0 -0.012	32	0 -0.019	80	0 -0.40	54	38	8	36	24	5.5	9	5.1	0.020	0.020	143	280	0.214
LMT25L	6	25		40		112		62	46	8	40	32	5.5	9	5.1			159	320	0.476
LMT30L	6	30		45		123		74	51	10	49	35	6.6	11	6.1			254	560	0.570
LMT35L	6	35	0 -0.015	52	0 -0.022	135		82	60(58)	10	55	38	6.6	11	6.1	0.025	0.025	270	640	0.874
LMT40L	6	40		60		151 (154)		96	70(66)	13	64	45	9	14	8.1			350	820	1.820

注：需要括号内尺寸请提前说明

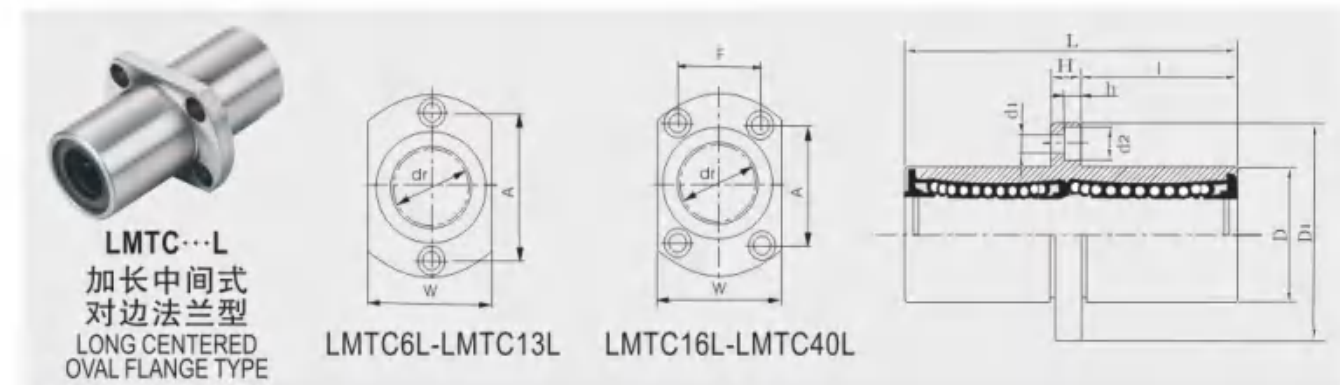
型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS														法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGH (Kg)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		I	法兰 FLANGE					连接孔 HOLE FOR ATTACHMENT				动 DYNAMIC Co(kgf)	静 STATIC Co(kgf)		
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE		D1	W	H	A	F	d1	d2						h
LMTP6L	4	6	0 -0.010	12	0 -0.013	35	0 -0.30	5	28	18	5	20		3.5	6	3.1	0.015	0.015	33	54	0.024
LMTP8L	4	8		15		45		5	32	21	5	24		3.5	6	3.1			44	80	0.041
LMTP10L	4	10		19		55		6	40	25	6	29		4.5	7.5	4.1			60	112	0.077
LMTP12L	4	12		21	57	6	42	27	6	32		4.5	7.5	4.1	67	122			0.084		
LMTP13L	4	13		23	61	6	43	29	6	33		4.5	7.5	4.1	83	160			0.144		
LMTP16L	5	16		28	70	6	48	34	6	31	22	4.5	7.5	4.1	125	240			0.171		
LMTP20L	5	20	0 -0.012	32	0 -0.019	80	0 -0.40	8	54	38	8	36	24	5.5	9	5.1	0.020	0.020	143	280	0.211
LMTP25L	6	25		40		112		8	62	46	8	40	32	5.5	9	5.1			159	320	0.390
LMTP30L	6	30		45		123		10	74	51	10	49	35	6.6	11	6.1			254	560	0.560
LMTP35L	6	35	0 -0.015	52	0 -0.022	135		10	82	60(58)	10	55	38	6.6	11	6.1	0.025	0.025	270	640	0.870
LMTP40L	6	40		60		151 (154)		13	96	70(66)	13	64	45	9	14	8.1			350	820	1.380

注：需要括号内尺寸请提前说明



LMTC...L 加长中间式对边法兰型直线轴承
LMTC...L Long centered oval flange type

亚洲系列
Asia Series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS														法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		I	法兰 FLANGE					连接孔 HOLE FOR ATTACHMENT				动 DYNAMIC C(kg)	静 STATIC Co(kg)		
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE		D1	W	H	A	F	d1	d2						h
LMTC6L	4	6	0 -0.010	12	0 -0.013	35	0 -0.30	15	28	18	5	20		3.5	6	3.1	0.015	0.015	33	54	0.040
LMTC8L	4	8		15		45		20	32	21	5	24		3.5	6	3.1			44	80	0.062
LMTC10L	4	10		19		55		24.5	40	25	6	29		4.5	7.5	4.1			60	112	0.114
LMTC12L	4	12		21		57		25.5	42	27	6	32		4.5	7.5	4.1			67	122	0.124
LMTC13L	4	13		23		61		27.5	43	29	6	33		4.5	7.5	4.1			83	160	0.144
LMTC16L	5	16		28		70		32	48	34	6	31	22	4.5	7.5	4.1			125	240	0.170
LMTC20L	5	20	0 -0.012	32	0 -0.019	80	0 -0.40	36	54	38	8	36	24	5.5	9	5.1	0.020	0.020	143	280	0.210
LMTC25L	6	25		40		112		52	62	46	8	40	32	5.5	9	5.1			159	320	0.480
LMTC30L	6	30		45		123		56.5	74	51	10	49	35	6.6	11	6.1			254	560	0.576
LMTC35L	6	35	0 -0.015	52	0 -0.022	135		62.5	82	60(58)	10	55	38	6.6	11	6.1	0.025	0.025	270	640	0.940
LMTC40L	6	40		60		151 (154)		69 (70.5)	96	70(66)	13	64	45	9	14	8.1			350	820	1.470

注：需要括号内尺寸请提前说明

KBF...L 加长圆法兰型直线轴承

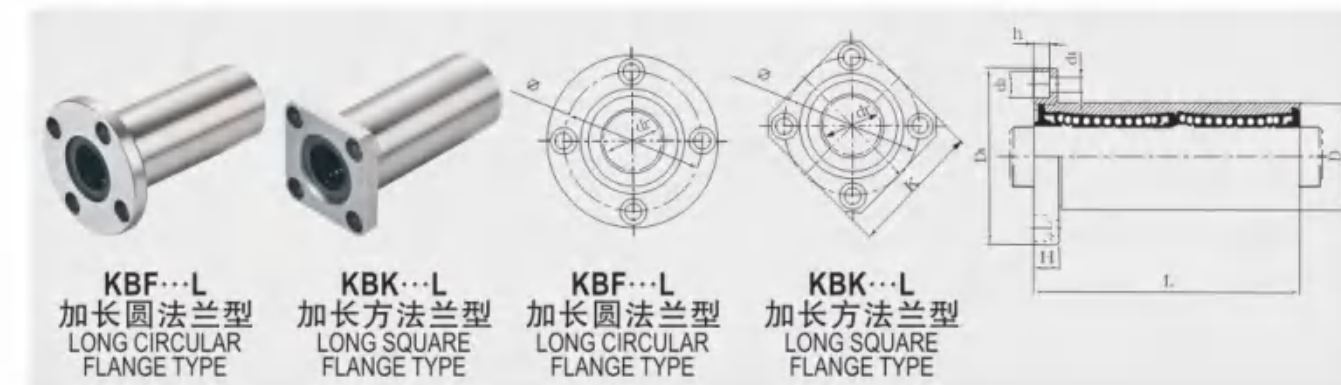
KBF...L Long circular flange type

KBK...L 加长方法兰型直线轴承

KBK...L Long square flange type

欧洲系列

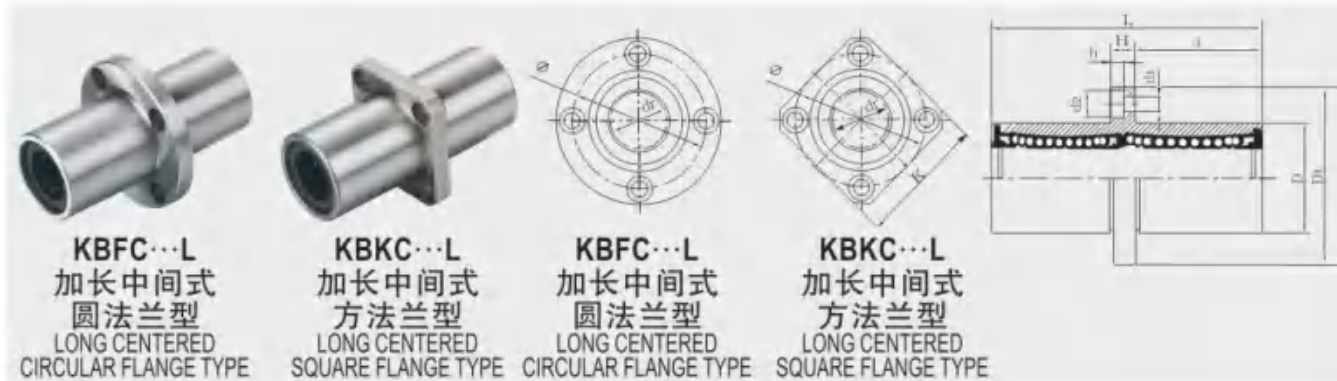
Europe Series



型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS													法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)		
			内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT					动 DYNAMIC C(kgf)	静 STATIC Co(kgf)	F	K	
			dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	D1	K	H	φ	d1	d2	h							
KBF8L	KBK8L	4	8	+0.009 -0.001	16	0 -0.009	46	0 -0.30	32	25	5	24	3.5	6	3.1	0.015	0.015	43	82	0.052	0.049	
KBF10L	KBK10L	4	10		19		55		40	30	6	29	4.5	7.5	4.1			60	112			
KBF12L	KBK12L	4	12		22	0 -0.011	61		42	32	6	32	4.5	7.5	4.1			83	160	0.117	0.098	
KBF16L	KBK16L	5	16		26		68		46	35	6	36	4.5	7.5	4.1			94	182	0.141	0.122	
KBF20L	KBK20L	5	20	+0.011 -0.001	32	0 -0.011	80	0 -0.30	54	42	8	43	5.5	9	5.1	0.017	0.017	140	280	0.248	0.215	
KBF25L	KBK25L	6	25		40		0 -0.013		112	62	50	8	51	5.5	9			5.1	160	320	0.510	0.500
KBF30L	KBK30L	6	30		47				123	76	60	10	62	6.6	11			6.1	225	560	0.782	0.710
KBF40L	KBK40L	6	40	+0.013 -0.002	62	0 -0.013	151	0 -0.40	98	75	13	80	9	14	8.1	0.02	0.02	350	820	1.700	1.540	
KBF50L	KBK50L	6	50		75		0 -0.015		192	112	88	13	94	9	14			8.1	620	1622	3.479	2.890
KBF60L	KBK60L	6	60		90		0 -0.020		209	134	106	18	112	11	17.5			10.8	770	2040	4.330	3.920

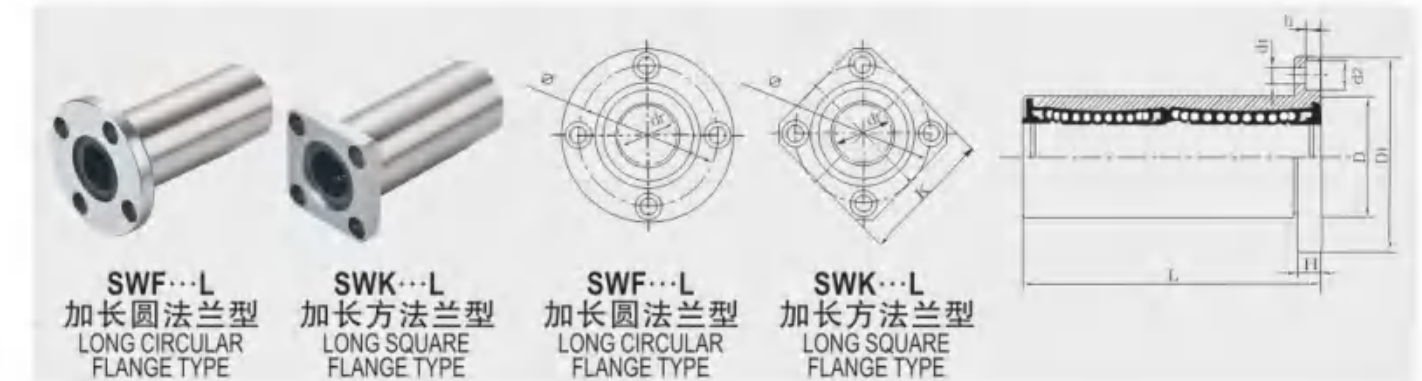


KBFC...L加长中间式圆法兰型直线轴承
KBFC...L Long centered circular flange type
KBKC...L加长中间式方法兰型直线轴承
KBKC...L Long centered square flange type
欧洲系列
Europe Series



型号 MODEL NO.	型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS														法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)		
			内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		I	法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT					动 DYNAMIC C(1kg)	静 STATIC Co(1kgf)	F	K	
			dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE		D1	K	H	φ	d1	d2	h							
KBFC8L	KBKC8L	4	8	+0.009 -0.001	16	0 -0.009	46	±0.30	20.5	32	25	5	24	3.5	6	3.1	0.015	0.015	43	82	0.052	0.049	
KBFC12L	KBKC12L	4	12		22	0 -0.011	61	0 -0.30	27.5	42	32	6	32	4.5	7.5	4.1			83	160	0.117	0.099	
KBFC16L	KBKC16L	5	16		26		31		46	35	6	36	4.5	7.5	4.1	94			182	0.146	0.121		
KBFC20L	KBKC20L	5	20	32	80		36		54	42	8	43	5.5	9	5.1	140	280	0.248	0.207				
KBFC25L	KBKC25L	6	25	+0.013 -0.002	40	0 -0.013	112	0 -0.40	52	62	50	8	51	5.5	9	5.1	0.017	0.017	160	320	0.570	0.469	
KBFC30L	KBKC30L	6	30		47	123	56.5		76	60	10	62	6.6	11	6.1	225			560	0.782	0.750		
KBFC40L	KBKC40L	6	40	+0.016 -0.004	62	0 -0.015	151		69	98	75	13	80	9	14	8.1	0.02	0.02	350	820	1.700	1.515	
KBFC50L	KBKC50L	6	50		75	192	89.5		112	88	13	94	9	14	8.1	620			1622	3.479	2.490		
KBFC60L	KBKC60L	6	60		90	0 -0.020	209		95.5	134	106	18	112	11	17.5	10.8			0.025	0.025	770	2040	4.336

SWF...L加长圆法兰型直线轴承
SWF...L Long circular flange type
SWK...L加长方法兰型直线轴承
SWK...L Long square flange type
英制系列
Inch Series



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS													法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本 额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT					动 DYNAMIC C(kg)	静 STATIC Co(kgf)	F	K
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE	D1	K	H	φ	d1	d2	h						
SWF04L SWK04L	4	1/4" 6.35	0 -0.010	0.5" 12.7	0 -0.013	1.375" 34.925	± 0.30	1.25" 31.75	1" 25.4	0.219" 5.556	0.875" 22.225	0.156" 3.969	0.25" 6.35	0.141" 3.572	0.015	0.015	33	54	0.08	0.05
SWF06L SWK06L	4	3/8" 9.525		0.625" 15.875	1.5938" 40.481	1.5" 38.1		1.25" 31.75	0.25" 6.35	1.062" 26.988	0.1875" 4.763	0.297" 7.541	0.172" 4.366	36			64	0.09	0.07	
SWF08L SWK08L	4	1/2" 12.7		0.875" 22.225	0 -0.016	2.375" 60.325	0 -0.30	1.75" 44.45	1.375" 34.925	0.25" 6.35	1.312" 33.338	0.1875" 4.763	0.297" 7.541	0.172" 4.366			83	160	0.2	0.15
SWF10L SWK10L	4	5/8" 15.875		1.125" 28.575	2.8125" 71.438	2" 50.8		1.5" 38.1	0.25" 6.35	1.562" 39.688	0.1875" 4.763	0.297" 7.541	0.172" 4.366	125			240	0.3	0.25	
SWF12L SWK12L	4	3/4" 19.05	0 -0.012	1.25" 31.75	0 -0.019	3.0937" 78.581	0 -0.40	2.1875" 55.563	1.6875" 42.863	0.3125" 7.938	1.718" 43.66	0.2187" 5.556	0.344" 8.731	0.203" 5.159	0.020	0.020	140	280	0.4	0.35
SWF16L SWK16L	6	1" 25.4		1.5625" 39.688		4.2813" 108.744		2.5" 63.5	2" 50.8	0.3125" 7.938	2.031" 51.594	0.2187" 5.556	0.344" 8.731	0.203" 5.159			160	320	0.7	0.6
SWF20L SWK20L	6	1-1/4" 31.75	0 -0.016	2" 50.8	0 -0.022	5" 127		3.125" 79.375	2.5" 63.5	0.375" 9.525	2.5625" 65.088	0.2812" 7.144	0.406" 10.319	0.2656" 6.747	0.025	0.025	225	560	1.25	1.15
SWF24L SWK24L	6	1-1/2" 38.1		2.375" 60.325		5.6875" 144.463		3.75" 95.25	3" 76.2	0.5" 12.7	3.0625" 77.788	0.344" 8.731	0.5" 12.7	0.328" 8.334			350	820	2.5	2.0
SWF32L SWK32L	6	2" 50.8		3" 76.2	0 -0.025	7.75" 196.85		4.375" 111.125	3.5" 88.9	0.5" 12.7	3.6875" 93.662	0.344" 8.731	0.5" 12.7	0.328" 8.334	0.030	0.030	620	1622	4	3.5

注：SWF16L钢保持器球列数5列，工程塑料保持器球列数6列。
Annotate: SWF16L steel retainer the number of ball rows is 5, POM retainer the number of ball rows is 6.



SWFC...L加长中间式圆法兰型直线轴承

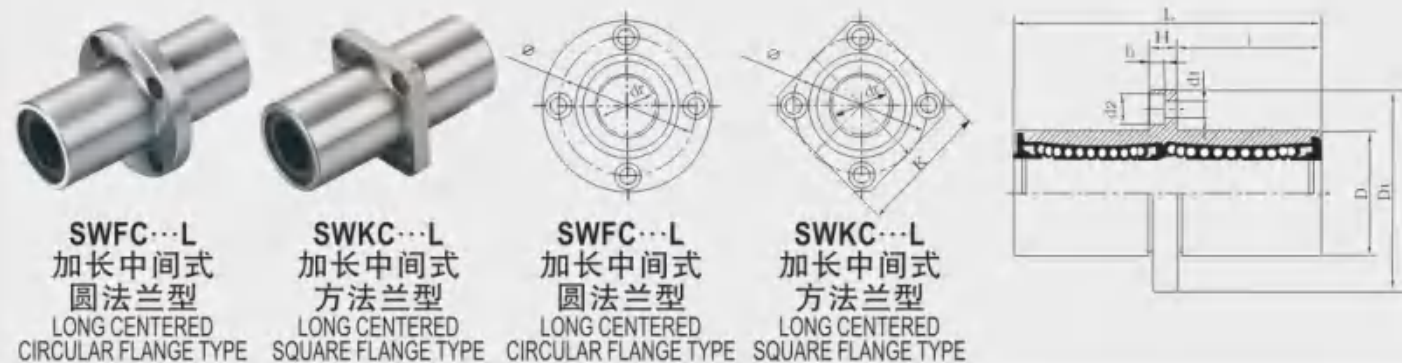
SWFC...L Long centered circular flange type

SWKC...L加长中间式方法兰型直线轴承

SWKC...L Long centered square flange type

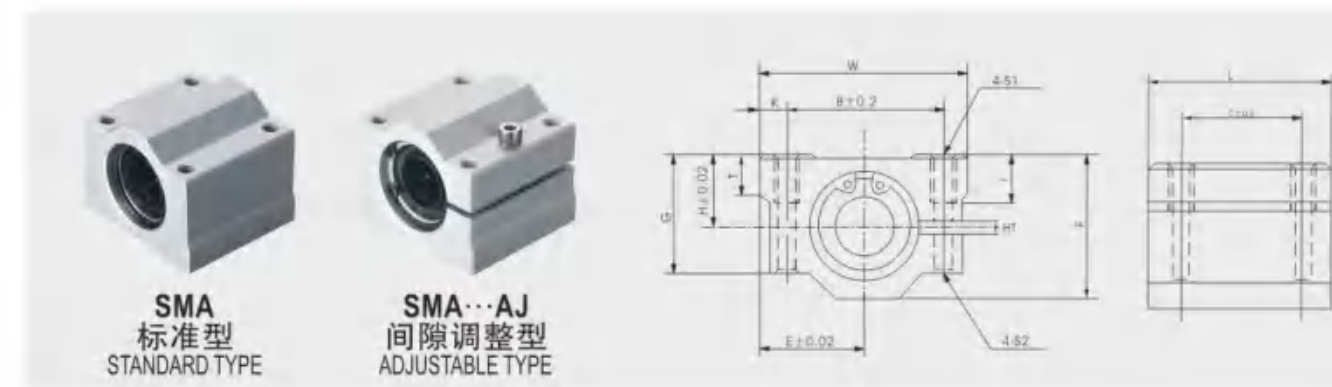
英制系列

Inch Series



LM系列轴承座

LM Series case unit



型号 MODEL NO.	球列数 NUMBER OF BALL ROWS	主要尺寸 MAIN DIMENSIONS														法兰 垂直度 SQUAR- ENESS	径向 跳动 ECCEN- TRICITY (MAX.)	基本额定 载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)	
		内径 INSCRIBED CIRCLE DIAMETER		外径 OUTER DIAMETER		长度 LENGTH		I	法兰 FLANGE				连接孔 HOLE FOR ATTACHMENT					动 DYNAMIC C(kg)	静 STATIC Co(kgf)	F	K
		dr	公差 TOLERANCE	D	公差 TOLERANCE	L	公差 TOLERANCE		D1	K	H	φ	d1	d2	h						
SWFC04L SWKC04L	4	1/4" 6.35	0 -0.01	0.5" 12.7	0 -0.013	1.375" 34.925	± 0.30	0.5781" 14.684	1.25" 31.75	1" 25.4	0.2188" 5.556	0.875" 22.225	0.156" 3.969	0.25" 6.35	0.141" 3.572	0.015	0.015	33	54	0.08	0.05
SWFC06L SWKC06L	4	3/8" 9.525		0.625" 15.875		1.5938" 40.481		0.6719" 17.066	1.5" 38.1	1.25" 31.75	0.25" 6.35	1.062" 26.988	0.1875" 4.763	0.297" 7.541	0.172" 4.366			36	64	0.09	0.07
SWFC08L SWKC08L	4	1/2" 12.7		0.875" 22.225	0 -0.016	2.375" 60.325		1.0625" 26.988	1.75" 44.45	1.375" 34.925	0.25" 6.35	1.312" 33.338	0.1875" 4.763	0.297" 7.541	0.172" 4.366			83	160	0.2	0.15
SWFC10L SWKC10L	4	5/8" 15.875		1.125" 28.575		2.8125" 71.438	0 -0.30	1.2813" 32.544	2" 50.8	1.5" 38.1	0.25" 6.35	1.562" 39.688	0.1875" 4.763	0.297" 7.541	0.172" 4.366			125	240	0.3	0.25
SWFC12L SWKC12L	4	3/4" 19.05	0 -0.012	1.25" 31.75	0 -0.019	3.0937" 78.581		1.3906" 35.322	2.1875" 55.563	1.6875" 42.863	0.3125" 7.938	1.718" 43.66	0.2187" 5.556	0.344" 8.731	0.203" 5.159	0.020	0.020	140	280	0.4	0.35
SWFC16L SWKC16L	6	1" 25.4		1.5625" 39.688		4.2813" 108.744	1.9844" 50.403	2.5" 63.5	2" 50.8	0.3125" 7.938	2.031" 51.594	0.2187" 5.556	0.344" 8.731	0.203" 5.159	160			320	0.7	0.6	
SWFC20L SWKC20L	6	1-1/4" 31.75	0 -0.016	2" 50.8	0 -0.022	5" 127	0 -0.40	2.3125" 58.738	3.125" 79.375	2.5" 63.5	0.375" 9.525	2.5625" 65.088	0.2812" 7.144	0.406" 10.319	0.2656" 6.747	0.025	0.025	225	560	1.25	0.15
SWFC24L SWKC24L	6	1-1/2" 38.1		2.375" 60.325		5.6875" 144.463		2.5938" 65.882	3.75" 95.25	3" 76.2	0.5" 12.7	3.0625" 77.788	0.344" 8.731	0.5" 12.7	0.328" 8.334			350	820	2.5	2.0
SWFC32L SWKC32L	6	2" 50.8		3" 76.2		0 -0.025		7.75" 196.85	3.625" 92.075	4.375" 111.125	3.5" 88.9	0.5" 12.7	3.6875" 93.662	0.344" 8.731	0.5" 12.7			0.328" 8.334	620	1622	4

注: SWKC16L钢保持器球列数5列, 工程塑料保持器球列数6列。

Annotate: SWKC16L steel retainer the number of ball rows is 5, POM retainer the number of ball rows is 6.

注: SMA配LM系列轴承。

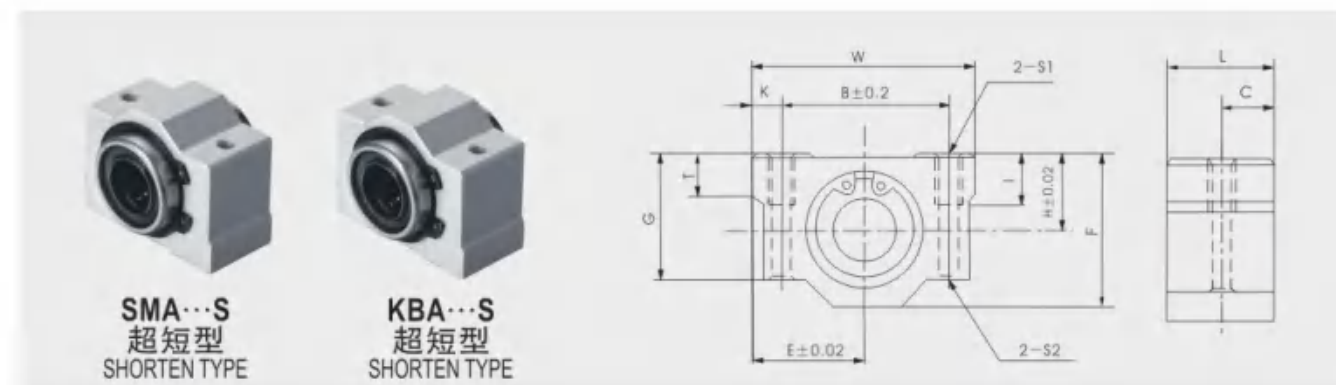
SMA...AJ配LM...AJ系列轴承。

Annotate: SMA use the LM series bearing

SMA...AJ use the LM...AJ series bearing



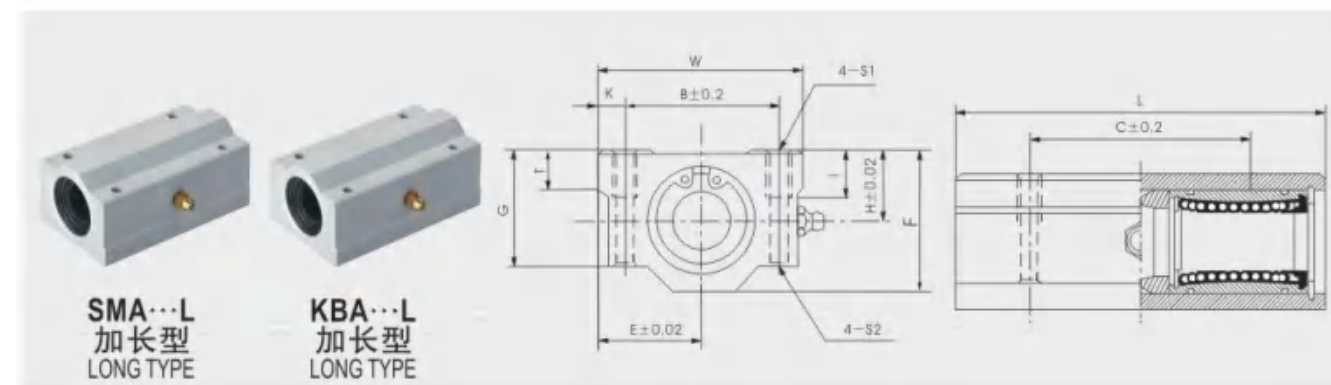
LM/KB系列轴承座 LM/KB Series case unit



型 号 MODEL NO.		轴 径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS									安装尺寸 MOUNTING DIMENSION							重量 WEIGHT (Kg)	
			H	E	W	L		F	G	T	B	C		K	S1	S2	I			
						SMAS	KBAS					SMAS	KBAS							
SMA8S	KBA8S	8	11	17	34	15.5	14.5	22	18	6	24	7.75	7.25	5	M4	3.4	8	0.027	0.025	
SMA10S	KBA10S	10	13	20	40	20	20	26	21	8	28	10	10	6	M5	4.3	12	0.053	0.053	
SMA12S		12	15	21	42	21		28	24	8	30.5	10.5		5.75	M5	4.3	12	0.060		
SMA13S	KBA12S	13	15	22	44	20.6	20.9	30	24.5	8	33	10.3	10.45	5.5	M5	4.3	12	0.064	0.065	
SMA16S	KBA16S	16	19	25	50	24.1	22.5	38.5	32.5	9	36	12.05	11.25	7	M5	4.3	12	0.110	0.100	
SMA20S	KBA20S	20	21	27	54	28.1	29.1	41	35	11	40	14.05	14.55	7	M6	5.2	12	0.144	0.148	
SMA25S	KBA25S	25	26	38	76	38	41.1	51.5	42	12	54	19	20.55	11	M8	7	18	0.340	0.368	
SMA30S	KBA30S	30	30	39	78	41.5	49.1	59.5	49	15	58	20.75	24.55	10	M8	7	18	0.424	0.500	
SMA35S		35	34	45	90	45.5		68	54	18	70	22.75		10	M8	7	18	0.626		
SMA40S	KBA40S	40	40	51	102	56.5	56.6	78	62	20	80	28.25	28.3	11	M10	8.7	25	1.000	1.000	
SMA50S	KBA50S	50	52	61	122	69	72.6	102	80	25	100	34.5	36.3	11	M10	8.7	25	2.100	2.205	

注：SMA...S配LM系列轴承。
KBA...S配KB系列轴承。
Annotate: SMA...S use the LM series bearing
KBA...S use the KB series bearing

LM/KB系列轴承座 LM/KB Series case unit

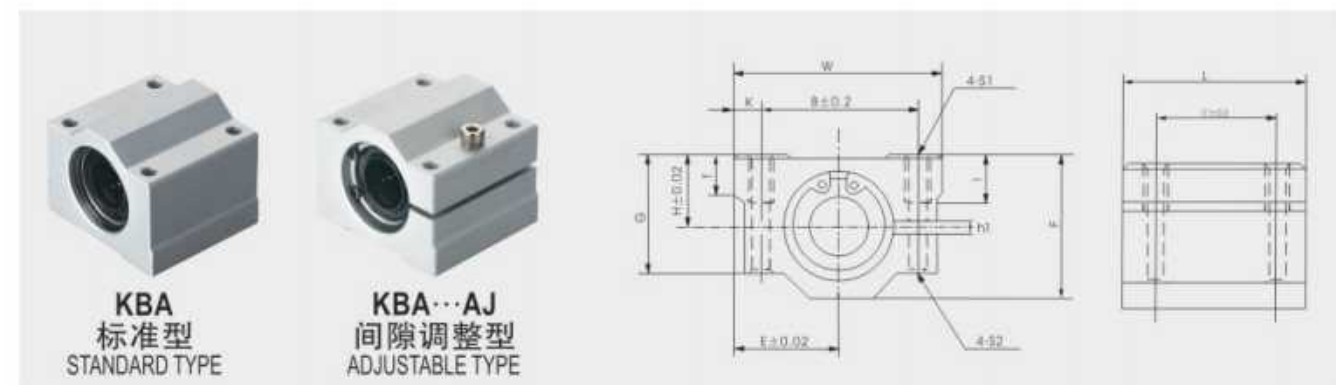


型号 MODEL NO.		轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS								安装尺寸 MOUNTING DIMENSION								重量 WEIGHT (Kg)	
			H	E	W	L		F	G	T	B	C		K	S1	S2	I			
						SMAL	KBAL					SMAL	KBAL							
SMA8L	KBA8L	8	11	17	34	58	58	22	18	6	24	42	42	5	M4	3.4	8	0.100	0.100	
SMA10L	KBA10L	10	13	20	40	68	68	26	21	8	28	46	46	6	M5	4.3	12	0.180	0.180	
SMA12L		12	15	21	42	70		28	24	8	30.5	50		5.75	M5	4.3	12	0.200		
SMA13L	KBA12L	13(12)	15	22	44	75	77	30	24.5	8	33	50	64	5.5	M5	4.3	12	0.230	0.230	
SMA16L	KBA16L	16	19	25	50	85	89	38.5	32.5	9	36	60	79	7	M5	4.3	12	0.390	0.400	
SMA20L	KBA20L	20	21	27	54	96	100	41	35	11	40	70	90	7	M6	5.2	12	0.490	0.510	
SMA25L	KBA25L	25	26	38	76	130	136	51.5	42	12	54	100	119	11	M8	7	18	1.165	1.220	
SMA30L	KBA30L	30	30	39	78	140	154	59.5	49	15	58	110	132	10	M8	7	18	1.430	1.580	
SMA35L		35	34	45	90	155		68	54	18	70	120		10	M8	7	18	2.130		
SMA40L	KBA40L	40	40	51	102	175	180	78	62	20	80	140	150	11	M10	8.7	25	3.090	3.180	
SMA50L	KBA50L	50	52	61	122	215	230	102	80	25	100	160	200	11	M10	8.7	25	6.530	6.990	

注：SMA...L配二套LM系列轴承。
KBA...L配二套KB系列轴承。
Annotate: SMA...L use the LM series bearing
KBA...L use the KB series bearing



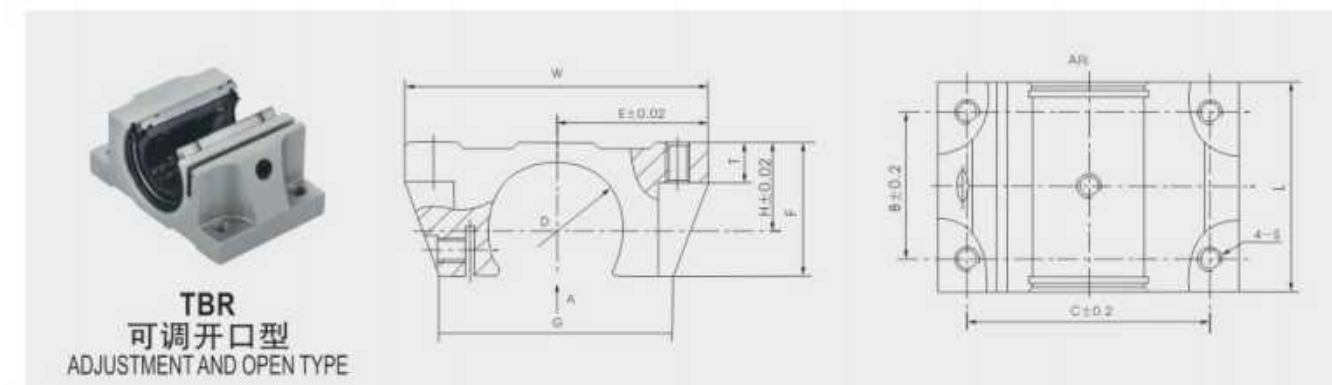
KB系列轴承座 KB Series case unit



型号 MODEL NO.		轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS								安装尺寸 MOUNTING DIMENSION						重量 WEIGHT (Kg)
			H	E	W	L	F	G	h1	T	B	C	K	S1	S2	I	
KBA8	KBA8AJ	8	11	17	34	30	22	18	1.5	6	24	18	5	M4	3.4	8	0.052
KBA10	KBA10AJ	10	13	20	40	35	26	21	1.5	8	28	21	6	M5	4.3	12	0.092
KBA12	KBA12AJ	12	15	22	44	39	30	24.5	1.5	8	33	26	5.5	M5	4.3	12	0.120
KBA16	KBA16AJ	16	19	25	50	44	38.5	32.5	2	9	36	34	7	M5	4.3	12	0.200
KBA20	KBA20AJ	20	21	27	54	53	41	35	2	11	40	40	7	M6	5.2	12	0.270
KBA25	KBA25AJ	25	26	38	76	67	51.5	42	2	12	54	50	11	M8	7	18	0.600
KBA30	KBA30AJ	30	30	39	78	76	59.5	49	2	15	58	58	10	M8	7	18	0.776
KBA40	KBA40AJ	40	40	51	102	90	78	62	2	20	80	60	11	M10	8.7	25	1.590
KBA50	KBA50AJ	50	52	61	122	110	102	80	2	25	100	80	11	M10	8.7	25	3.340
KBA60	KBA60AJ	60	58	66	132	137	114	94	2	30	108	90	12	M12	10.7	25	4.800

注：KBA配KB系列轴承。
KBA...AJ配KB...AJ系列轴承。
Annotate: KBA use the KB series bearing
KBA...AJ use the KB...AJ series bearing

LM系列可调型开口轴承座(也可配KB系列) LM series (or KB series) adjustment and open case unit

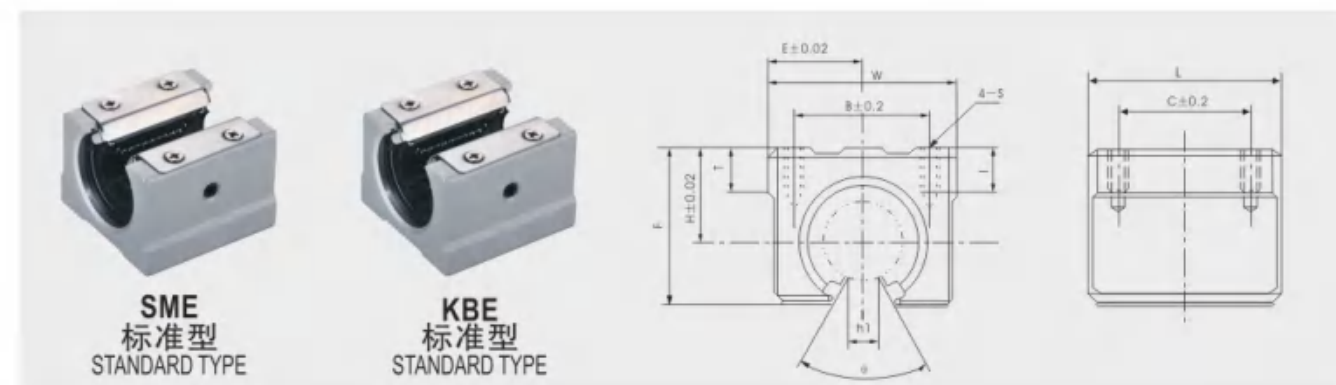


型号 MODEL NO.	D	H	E	T	F	G	W	B	C	L	S	重量 WEIGHT (Kg)
TBR16	28	17.86	31	8	27	48	62	30	50	42	M5	0.18
TBR20	32	20.99	34	10	31.4	52.4	68	37	54	51	M6	0.30
TBR25	40	28.0	41	12	41	61	82	50	65	65	M8	0.60
TBR30	45	33.48	45.5	12	48	65	91	60	75	75	M8	0.90

注：TBR配LM...OP系列轴承。
Annotate: TBR use the LM...OP series bearing



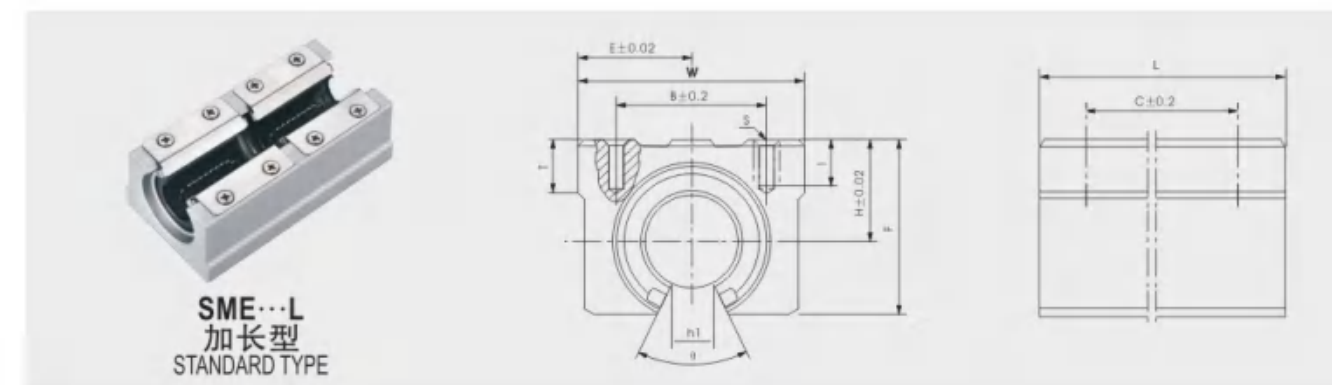
LM/KB系列开口轴承座
LM/KB Series open case unit



型号 MODEL NO.		轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS									安装尺寸 MOUNTING DIMENSION				基本额定载荷 BASIC LOAD RATING		重量 WEIGHT (Kg)
			H	E	W	L	F	T	h1	θ		B	C	S	I	动 DYNAMIC C(kgf)	静 STATIC Co(kgf)	
										SME	KBE							
SME10	KBE10	10	15	18	36	32	24	7	6	80°	80°	25	20	M5	10	38	56	0.065
SME12	KBE12	12	17	20	40	39	27.6	8	8.5	80°	80°	28	26	M5	10	42(52)	61(79)	0.100
SME13		13	17	20	40	39	27.6	8	8.5	80°		28	26	M5	10	52	80	0.100
SME16	KBE16	16	20	22.5	45	45	33	9	10	80°	80°	32	30	M5	12	59	91	0.150
SME20	KBE20	20	23	24	48	50	39	11	10	60°	60°	35	35	M6	12	88	140	0.200
SME25	KBE25	25	27	30	60	65	47	14	11.5	50°	60°	40	40	M6	12	100	160	0.450
SME30	KBE30	30	33	35	70	70	56	15	14	50°	60°	50	50	M8	18	160	280	0.630
SME35		35	37	40	80	80	63	18	16	50°		55	55	M8	18	170	320	0.920
SME40	KBE40	40	42	45	90	90	72	20	19	50°	60°	65	65	M10	20	220	410	1.330
SME50	KBE50	50	53	60	120	110	92	25	23	50°	60°	94	80	M10	20	390	810	3.000

注：SME配LM...OP系列轴承。
KBE配KB...OP系列轴承。
Annotate: SME use the LM...OP series bearing
KBE...AJ use the KB...OP series bearing

LM系列加长型开口轴承座
LM Series long type open case unit

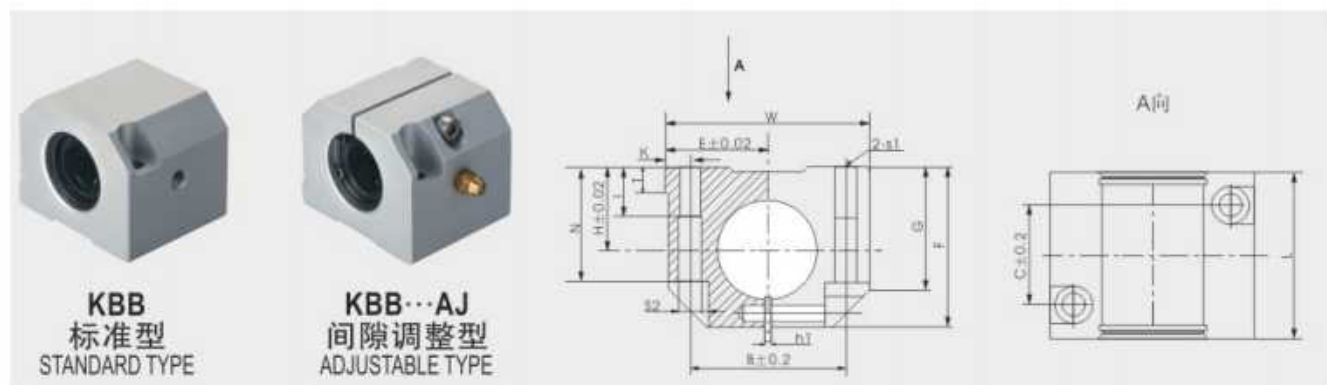


型 号 MODEL NO.	轴 径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS								安装尺寸 MOUNTING DIMENSION				重量 WEIGH (Kg)
		H	E	W	L	F	T	h1	θ	B	C	S	I	
SME12L	12	17	20	40	75	27.6	8	8.5	80°	28	50	M5	12	0.20
SME13L	13	17	20	40	75	27.6	8	8.5	80°	28	50	M5	12	0.20
SME16L	16	20	22.5	45	85	33	9	10	80°	32	60	M5	12	0.29
SME20L	20	23	24	48	96	39	11	10	60°	35	70	M6	12	0.51
SME25L	25	27	30	60	130	47	14	11.5	50°	40	100	M6	12	0.98
SME30L	30	33	35	70	140	56	15	14	50°	50	110	M8	18	1.45
SME35L	35	37	40	80	155	63	18	16	50°	55	120	M8	18	1.80
SME40L	40	42	45	90	175	72	20	19	50°	65	140	M10	20	2.48

注：SME...L配二套LM...OP系列轴承。
Annotate: SME...L use two pieces of LM...OP series bearing



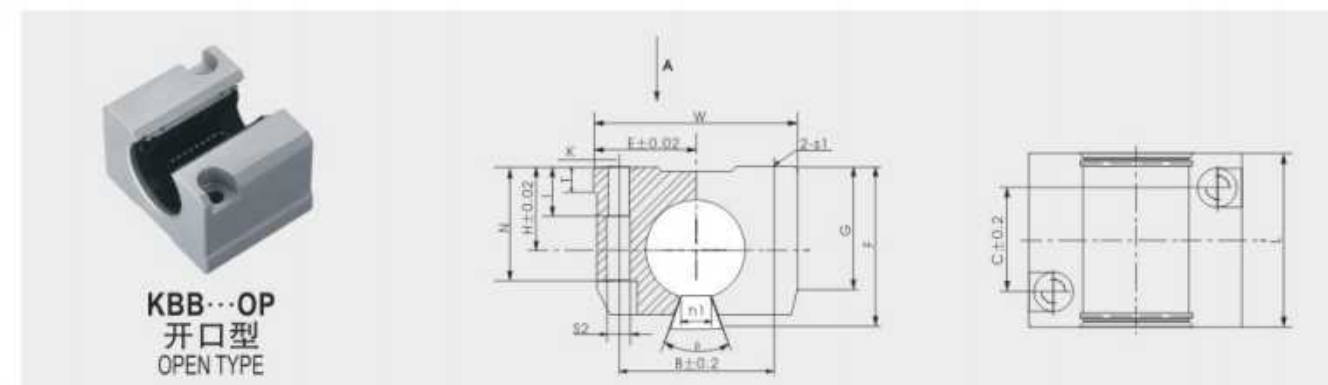
KB系列轴承座 KB Series case unit



型 号 MODEL NO.		轴 径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS									安装尺寸 MOUNTING DIMENSION						重量 WEIGHT (Kg)
			H	E	W	L	F	G	T	N	h1	B	C	S1	S2	I	K	
KBB16	KBB16AJ	16	22	26.5	53	43	42	32	7	30	1.5	40	26	M6	5.3	13	6.5	0.19
KBB20	KBB20AJ	20	25	30	60	54	50	39	7.5	34	2	45	32	M8	6.6	18	7.5	0.31
KBB25	KBB25AJ	25	30	39	78	67	60	48	8.5	40	2	60	40	M10	8.4	22	9	0.86
KBB30	KBB30AJ	30	35	43.5	87	79	70	57	9.5	48	2	68	45	M10	8.4	22	9.5	0.91
KBB40	KBB40AJ	40	45	54	108	91	90	60	10.5	60	3	86	58	M12	10.1	26	11	2.05

注：KBB配KB系列轴承。
KBB...AJ配KB...AJ系列轴承。
Annotate: KBB use the KB series bearing
KBB...AJ use the KB...AJ series bearing

KB系列开口轴承座 KB Series open case unit

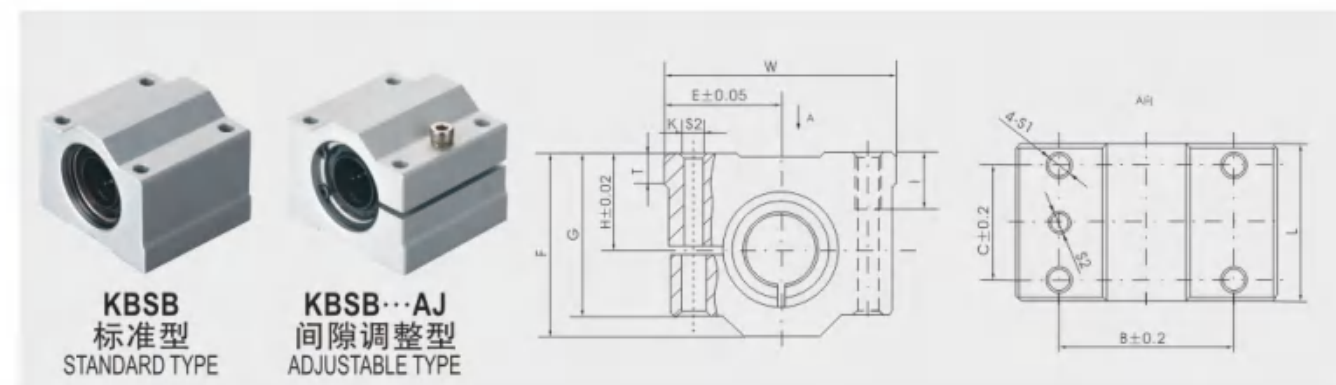


型 号 MODEL NO.	轴 径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS										安装尺寸 MOUNTING DIMENSION						重量 WEIGHT (Kg)
		H	E	W	L	F	G	T	h1	N	θ	B	C	S1	S2	I	K	
KBB16 OP	16	22	26.5	53	43	35	32	7	17.7	27	78°	40	26	M6	5.3	13	6.5	0.18
KBB20 OP	20	25	30	60	54	42	39	7.5	17.7	32	60°	45	32	M8	6.6	18	7.5	0.30
KBB25 OP	25	30	39	78	67	51	48	8.5	21.7	39	60°	60	40	M10	8.4	22	9	0.84
KBB30 OP	30	35	43.5	87	79	60	57	9.5	21.5	48	50°	68	45	M10	8.4	22	9.5	0.89
KBB40 OP	40	45	54	108	91	77	60	10.5	29	60	60°	86	58	M12	10.1	26	11	1.74

注：KBB...OP配KB...OP系列轴承。
Annotate: KBB...OP use the KB...OP series bearing



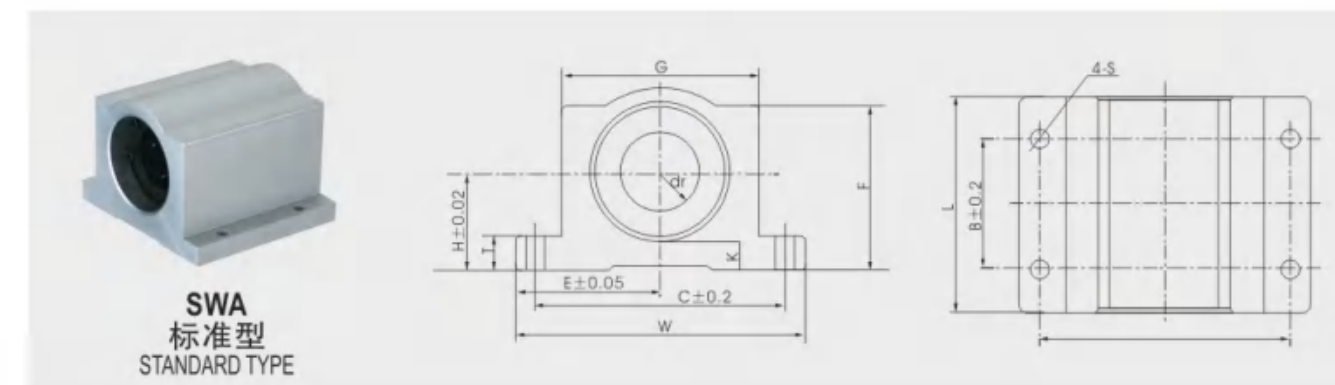
KB系列轴承座 KB Series case unit



型 号 MODEL NO.		轴 径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS							安装尺寸 MOUNTING DIMENSION						重量 WEIGHT (Kg)
			H	E	W	L	F	G	T	B	C	K	S1	S2	I	
KBSB12	KBSB12AJ	12	18	21.5	43	32	35	31	6	32	23	5.5	M5	M4	11	0.095
KBSB16	KBSB16AJ	16	22	26.5	53	36	42	37	7	40	26	6.5	M6	M5	13	0.161
KBSB20	KBSB20AJ	20	25	30	60	45	50	44	7.5	45	32	7.5	M8	M6	18	0.262
KBSB25	KBSB25AJ	25	30	39	78	58	60	52.5	8.5	60	40	9	M10	M8	22	0.487
KBSB30	KBSB30AJ	30	35	43.5	87	68	70	62	9.5	68	45	9.5	M10	M8	22	0.726
KBSB40	KBSB40AJ	40	45	54	108	80	90	80	11	86	58	12	M12	M10	26	1.276

注：KBSB配KB系列轴承。
KBSB...AJ配KB...AJ系列轴承。
Annotate: KBSB use the KB series bearing
KBSB...AJ use the KB...AJ series bearing

SWA轴承座 SWA Case unit 英制系列 Inch series

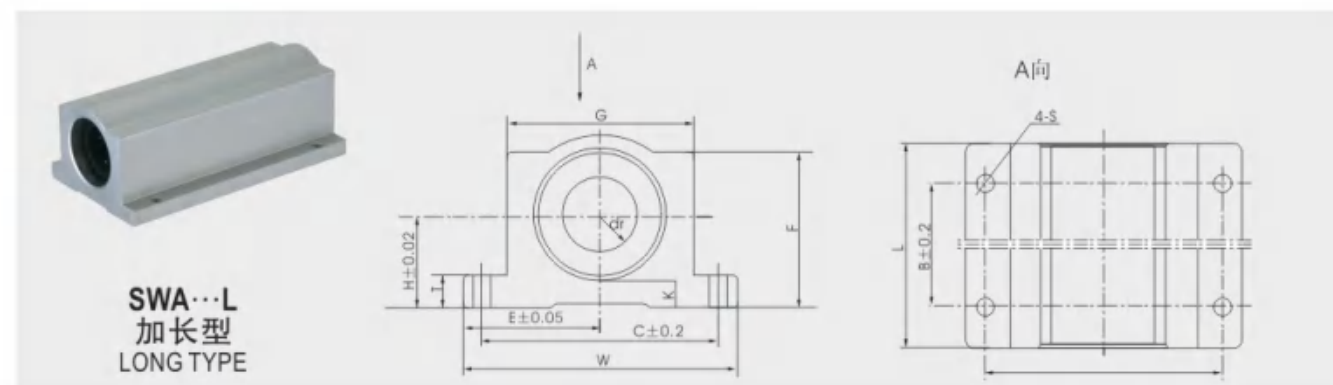


型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS							安装尺寸 MOUNTING DIMENSION						重量 WEIGHT (Lbs)
		H	E	W	L	F	T	G	K	B	C	S1			
SWA06	9.525	12.7	22.225	44.45	33.27	22.35	4.83	28.7	4.763	22.225	36.525	3.96			0.13
SWA08	12.7	17.45	25.4	50.8	42.88	28.58	6.35	34.93	6.342	25.4	42.88	3.94			0.20
SWA10	15.875	22.22	31.75	63.5	49.2	36.5	7.14	44.45	7.94	28.58	53.98	4.7			0.50
SWA12	19.05	23.8	34.92	69.85	52.4	39.67	7.92	47.63	7.925	31.75	60.325	4.7			0.60
SWA16	25.4	30.15	41.28	82.55	71.45	49.2	9.53	60.33	10.3	44.45	73.03	5.5			1.2
SWA20	31.75	38.1	50.8	101.6	92.08	63.5	11.1	76.2	12.705	50.8	88.9	5.5			2.5
SWA24	38.1	44.45	60.32	120.65	101.6	74.6	12.7	88.9	14.29	63.5	104.78	7.1			3.8
SWA32	50.8	53.98	76.2	152.4	127	92.08	15.88	114.3	15.875	82.55	133.35	10.31			7.0

注：SWA配SSW系列轴承。
Annotate: SWA use the SSW series bearing
1 Lbs=0.454kg



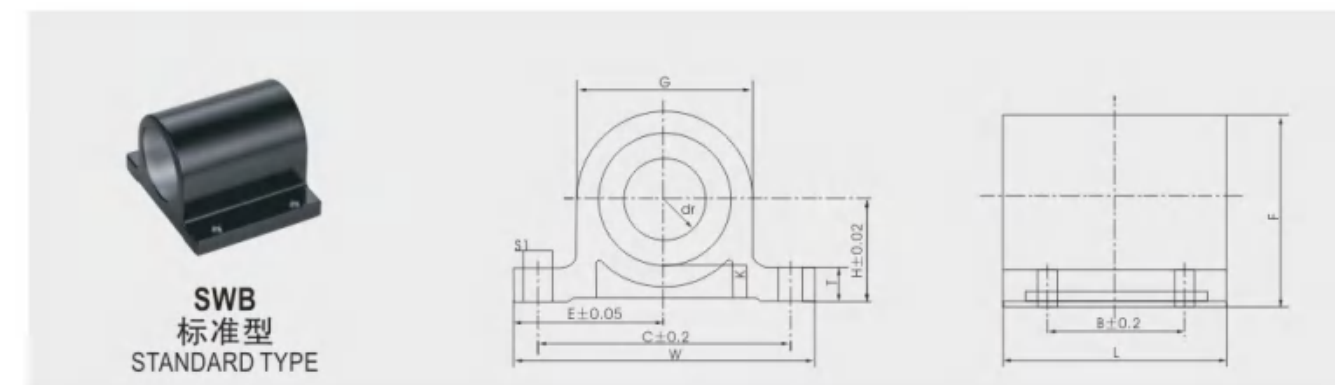
SWA 加长型轴承座
SWA Long type case unit
英制系列
Inch Series



型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS						安装尺寸 MOUNTING DIMENSION					重量 WEIGHT (Lbs)
		H	E	W	L	F	T	G	K	B	C	S1	
SWA06L	9.525	12.7	22.225	44.45	69.85	22.35	4.83	28.7	4.763	57.15	36.525	3.96	0.25
SWA08L	12.7	17.45	25.4	50.8	88.9	28.58	6.35	34.93	6.342	63.5	42.88	3.94	0.4
SWA10L	15.875	22.22	31.75	63.5	101.6	36.5	7.14	44.45	7.94	76.2	53.98	4.7	1.0
SWA12L	19.05	23.8	34.92	69.85	114.3	39.67	7.92	47.63	7.925	88.9	60.325	4.7	1.2
SWA16L	25.4	30.15	41.28	82.55	152.4	49.2	9.53	60.33	10.3	114.3	73.03	5.5	2.4
SWA20L	31.75	38.1	50.8	101.6	190.5	63.5	11.1	76.2	12.705	139.7	88.9	5.5	5
SWA24L	38.1	44.45	60.32	120.65	228.6	74.6	12.7	88.9	14.29	165.1	104.78	7.1	7.8
SWA32L	50.8	53.98	76.2	152.4	254	92.08	15.88	114.3	15.875	209.55	133.35	10.31	14.5

注：SWA...L配二套SSW系列轴承。
Annotate: SWA...L use two pieces of SSW series bearing
1 Lbs=0.454kg

SWB轴承座
SWB Case unit
英制系列
Inch Series

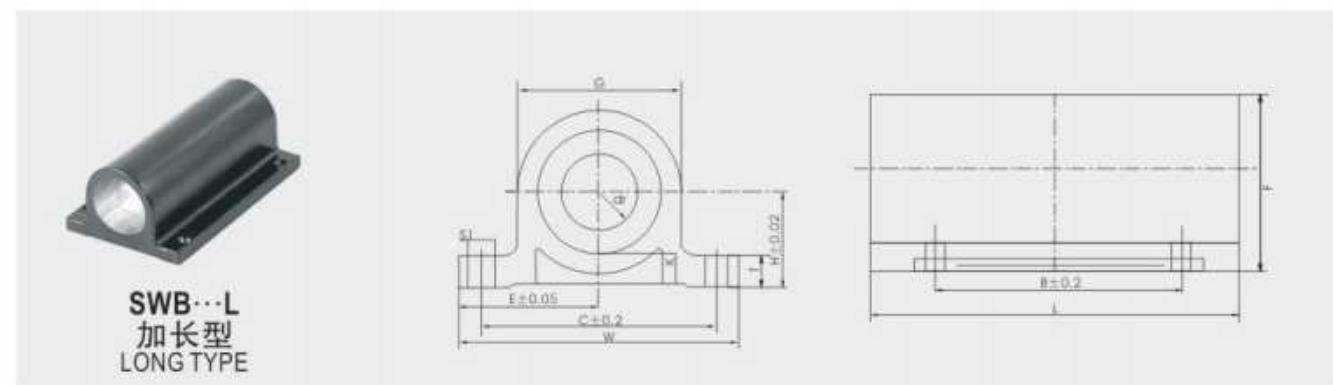


型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS						安装尺寸 MOUNTING DIMENSION					重量 WEIGHT (Kg)
		H	E	W	L	F	T	G	K	B	C	S1	
SWB08	12.7	17.45	25.4	50.8	42.88	31.8	6.528	28.7	6.342	25.4	42.88	3.94	0.058
SWB12	19.05	23.8	34.92	69.85	52.4	44.42	7.93	41.25	7.925	31.75	60.325	4.75	0.136
SWB16	25.4	30.15	41.28	82.55	71.45	55.55	9.53	50.8	10.3	44.45	73.03	5.56	0.264
SWB20	31.75	38.1	50.8	101.6	92.08	72.21	11.88	66.65	12.705	50.8	88.9	5.56	0.585
SWB24	38.1	44.45	60.32	120.65	101.6	82.56	12.73	76.2	14.29	63.5	104.78	7.16	0.765
SWB32	50.8	53.97	76.2	152.4	127	103.18	15.87	98.4	15.88	82.55	133.35	10.34	1.578

注：SWB配SSW系列轴承。
Annotate: SWB use the SSW series bearing



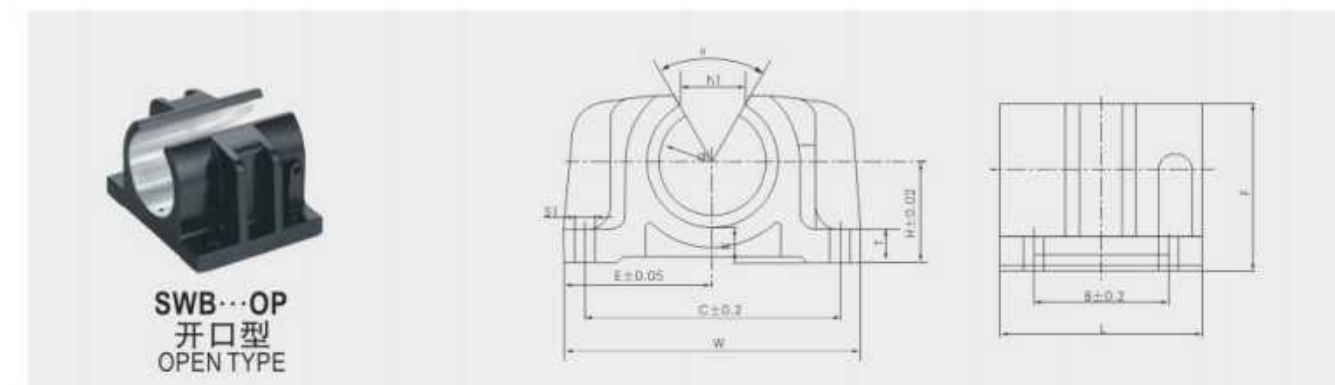
SWB 加长型轴承座
SWB Long type case unit
英制系列
Inch series



型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS						安装尺寸 MOUNTING DIMENSION					重量 WEIGHT (Kg)
		H	E	W	L	F	T	G	K	B	C	S1	
SWB08L	12.7	17.45	25.4	50.8	88.9	31.8	6.528	28.7	6.342	63.5	42.88	3.94	0.116
SWB12L	19.05	23.8	34.92	69.85	114.3	44.42	7.93	41.25	7.925	88.9	60.325	4.75	0.292
SWB16L	25.4	30.15	41.28	82.55	152.4	55.55	9.53	50.8	10.3	114.3	73.03	5.56	0.570
SWB20L	31.75	38.1	50.8	101.6	190.5	72.21	11.88	66.65	12.705	139.7	88.9	5.56	1.155
SWB24L	38.1	44.45	60.32	120.65	228.6	82.56	12.73	76.2	14.29	165.1	104.78	7.16	1.688

注：SWB...L配二套SSW系列轴承。
Annotate: SWB...L use two pieces of SSW series bearing

SWB开口型轴承座
SWB Open type case unit
英制系列
Inch series

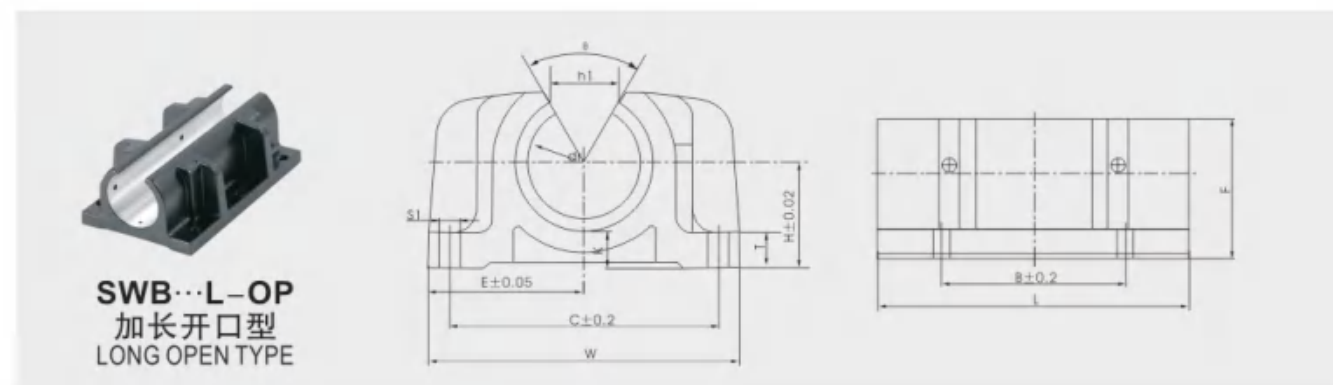


型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS									安装尺寸 MOUNTING DIMENSION			重量 WEIGHT (Kg)
		H	E	W	L	F	θ	T	h1	K	B	C	S1	
SWB08OP	12.7	17.45	26.5	53	38.1	28.7	60°	6.53	10.64	6.342	25.4	42.88	3.96	0.060
SWB12OP	19.05	23.8	34.92	69.85	47.6	39.7	60°	7.87	15.87	7.925	31.75	60.325	4.75	0.135
SWB16OP	25.4	30.15	41.27	82.55	66.68	50.8	60°	9.53	19.3	10.3	44.45	73.03	5.56	0.268
SWB20OP	31.75	38.1	50.8	101.6	85.73	63.5	60°	11.88	24.2	12.705	50.8	88.9	5.56	0.536
SWB24OP	38.1	44.45	60.32	120.65	95.25	74.6	60°	12.7	29.5	14.29	63.5	104.78	7.16	0.794
SWB32OP	50.8	53.97	76.2	152.4	120.65	92.07	60°	15.8	37.3	15.88	82.55	133.35	10.34	1.350

注：SWB...OP配SSW...OP系列轴承。
Annotate: SWB...OP use the SSW...OP series bearing



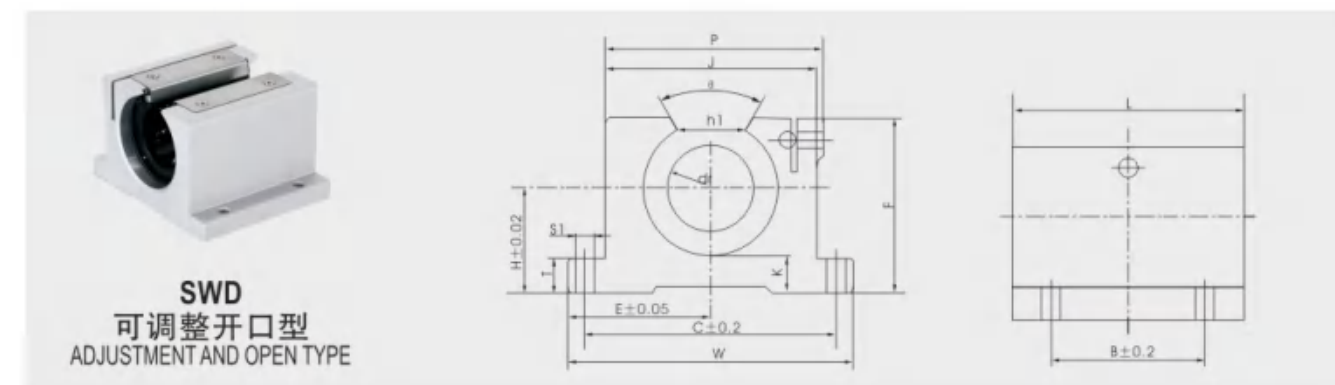
SWB 加长开口型轴承座
SWB Long open type case unit
英制系列
Inch Series



型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS									安装尺寸 MOUNTING DIMENSION			重量 WEIGHT (Kg)
		H	E	W	L	F	θ	T	h1	K	B	C	S1	
SWB08L-OP	12.7	17.45	26.5	53	88.9	28.7	60°	6.53	10.64	6.342	63.5	42.88	3.96	0.123
SWB12L-OP	19.05	23.8	34.92	69.85	114.3	39.7	60°	7.87	15.87	7.925	88.9	60.325	4.75	0.305
SWB16L-OP	25.4	30.15	41.27	82.55	152.4	50.8	60°	9.53	19.3	10.3	114.3	73.03	5.56	0.612
SWB20L-OP	31.75	38.1	50.8	101.6	190.5	63.5	60°	11.88	24.2	12.705	139.7	88.9	5.56	1.128
SWB24L-OP	38.1	44.45	60.32	120.65	228.6	74.6	60°	12.7	29.5	14.29	165.1	104.78	7.16	1.778

注：SWB...L-OP配SSW...OP系列轴承。
Annotate: SWB...L-OP use the SSW...OP series bearing

SWD可调整型开口轴承座
SWD Adjustment and open case unit
英制系列
Inch Series

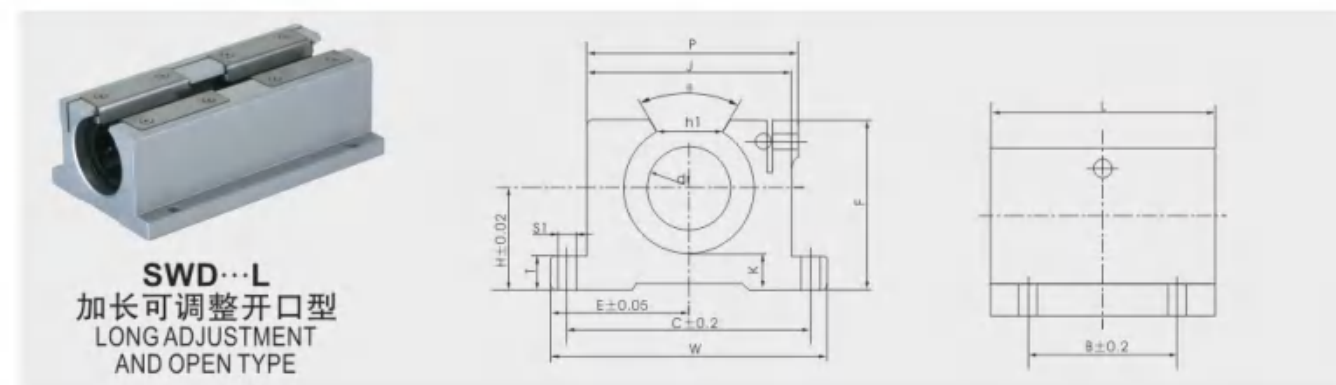


型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS								安装尺寸 MOUNTING DIMENSION						重量 WEIGHT (Lbs)
		H	E	W	L	F	θ	T	h1	K	J	P	B	C	S1	
SWD08	12.7	17.45	25.4	50.8	38.1	28.5	60°	6.53	10.64	6.342	35.75	36.5	25.4	42.88	3.96	0.188
SWD10	15.875	22.22	31.75	63.5	44.45	36.53	60°	7.11	13.49	7.942	44.5	46.04	28.57	53.97	4.75	0.365
SWD12	19.05	23.8	34.92	69.85	47.6	39.7	60°	7.87	15.87	7.925	48.41	49.98	31.75	60.325	4.75	0.452
SWD16	25.4	30.15	41.27	82.55	66.67	50.8	60°	9.65	19.3	10.3	61.11	62.69	44.45	73.03	5.54	1.01
SWD20	31.75	38.1	50.8	101.6	85.72	63.5	60°	11.1	24.2	12.705	76.2	78.58	50.8	88.9	5.54	1.98
SWD24	38.1	44.45	60.32	120.65	95.25	74.6	60°	12.7	30.16	14.29	88.9	90.48	63.5	104.78	7.137	2.95
SWD32	50.8	53.98	76.2	152.4	120.65	91.96	60°	15.88	37.91	15.875	114	119	82.55	133.35	10.31	5.84

注：SWD配SSW...OP系列轴承。
Annotate: SWD use the SSW...OP series bearing
1 Lbs=0.454kg



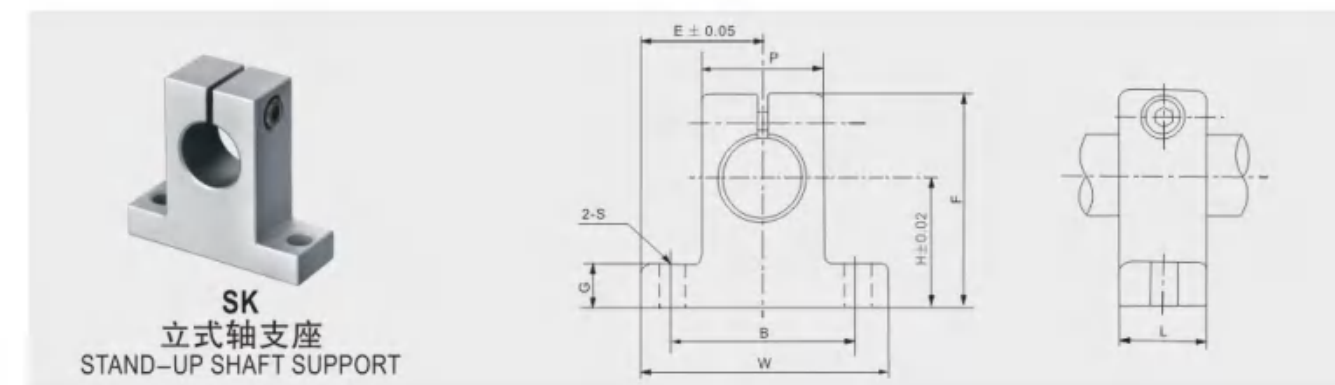
SWD加长可调整型开口轴承座
SWD Long adjustment and open case unit
英制系列
Inch Series



型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS								安装尺寸 MOUNTING DIMENSION						重量 WEIGHT (Lbs)
		H	E	W	L	F	θ	T	h1	K	J	P	B	C	S1	
SWD08L	12.7	17.45	26.5	50.8	88.9	28.5	60°	6.53	10.64	6.342	35.75	36.5	63.5	42.88	3.96	0.4
SWD10L	15.875	22.22	31.75	63.5	101.6	36.53	60°	7.11	13.49	7.942	44.5	46.04	76.2	53.97	4.75	0.8
SWD12L	19.05	23.8	34.92	69.85	114.3	39.7	60°	7.87	15.87	7.925	48.41	49.98	88.9	60.325	4.75	1.0
SWD16L	25.4	30.15	41.27	82.55	152.4	50.8	60°	9.65	19.3	10.3	61.11	62.69	114.3	73.03	5.54	2.0
SWD20L	31.75	38.1	50.8	101.6	190.5	63.5	60°	11.1	24.2	12.705	76.2	78.58	139.7	88.9	5.54	4.2
SWD24L	38.1	44.45	60.32	120.65	228.6	74.6	60°	12.7	30.16	14.29	88.9	90.48	165.1	104.78	7.137	6.7
SWD32L	50.8	53.98	76.2	152.4	254	91.96	60°	15.88	37.91	15.875	114	119	209.55	133.35	10.31	12.2

注：SWD...L配二套SSW...OP系列轴承。
Annotate: SWD...L use two pieces of SSW...OP series bearing
1 Lbs=0.454kg

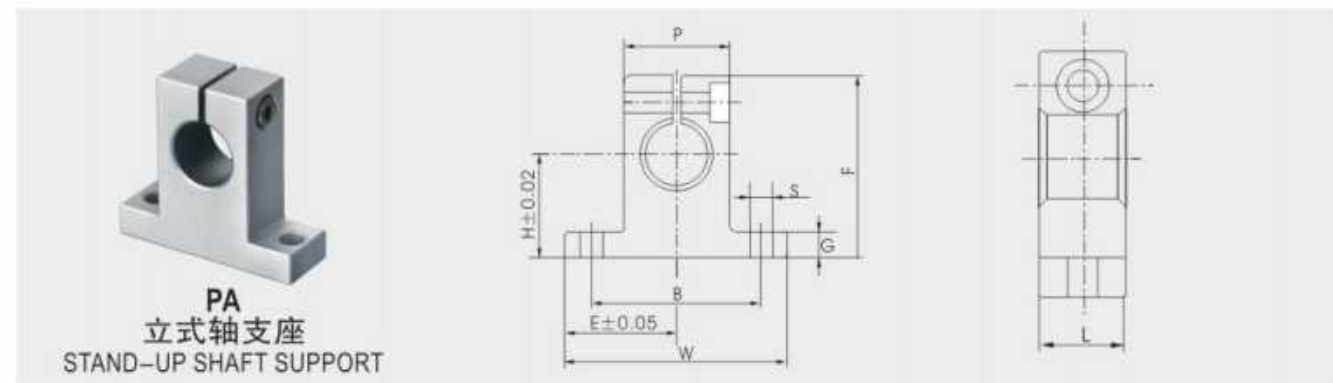
SK立式轴支座
SK Stand-up shaft support



型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS									锁紧螺栓 DESIGNATION OF CLAMPING BOLT	安装螺栓 DESIGNATION OF MOUNTING BOLT	重量 WEIGHT (Kg)
		H	E	W	L	F	G	P	B	S			
SK3	3	20	21	42	14	33	6	18	32	5.5	M4	M5	0.024
SK4	4	20	21	42	14	33	6	18	32	5.5	M4	M5	0.024
SK5	5	20	21	42	14	33	6	18	32	5.5	M4	M5	0.024
SK6	6	20	21	42	14	33	6	18	32	5.5	M4	M5	0.024
SK8	8	20	21	42	14	33	6	18	32	5.5	M4	M5	0.024
SK10	10	20	21	42	14	33	6	18	32	5.5	M4	M5	0.024
SK12	12	23	21	42	14	37.5	6	20	32	5.5	M4	M5	0.030
SK13	13	23	21	42	14	37.5	6	20	32	5.5	M4	M5	0.030
SK16	16	27	24	48	16	44	8	25	38	5.5	M4	M5	0.040
SK20	20	31	30	60	20	51	10	30	45	6.6	M5	M6	0.070
SK25	25	35	35	70	24	60	12	38	56	6.6	M6	M6	0.130
SK30	30	42	42	84	28	70	12	44	64	9	M6	M8	0.180
SK35	35	50	49	98	32	82	15	50	74	11	M8	M10	0.270
SK40	40	60	57	114	36	96	15	60	90	11	M8	M10	0.420
SK50	50	70	63	126	40	120	18	74	100	14	M12	M12	0.750

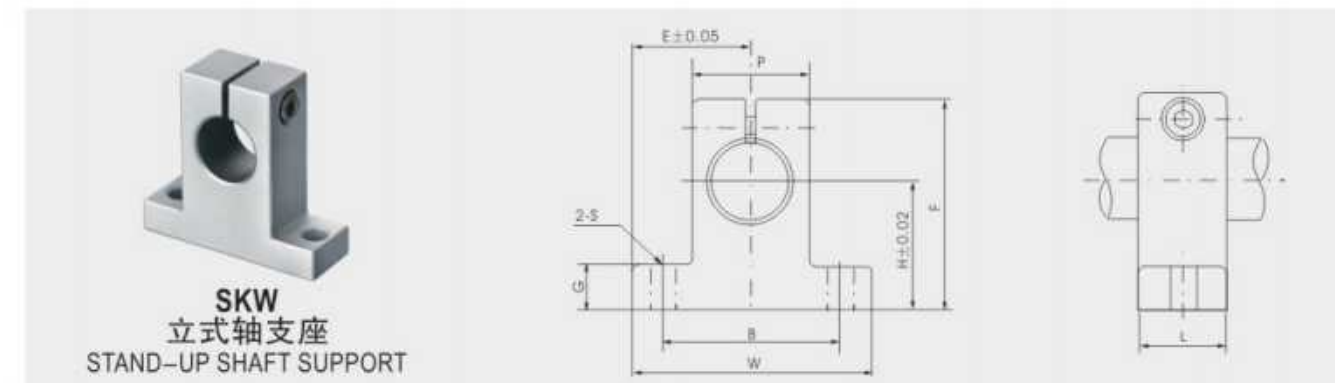


PA立式轴支座
PA Stand-up shaft support



型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS									重量 WEIGHT (Kg)
		H	E	W	L	F	G	P	B	S	
PA12	12	20	21	42	12	35	5.5	20	32	4.3	0.021
PA16	16	25	25	50	16	42	6.5	26	40	4.3	0.040
PA20	20	30	30	60	20	50	8	32	45	4.3	0.075
PA25	25	35	37	74	25	58	9	38	60	5.3	0.130
PA30	30	40	42	84	28	68	10	45	68	6.4	0.195
PA40	40	50	54	108	32	86	12	56	86	8.4	0.380

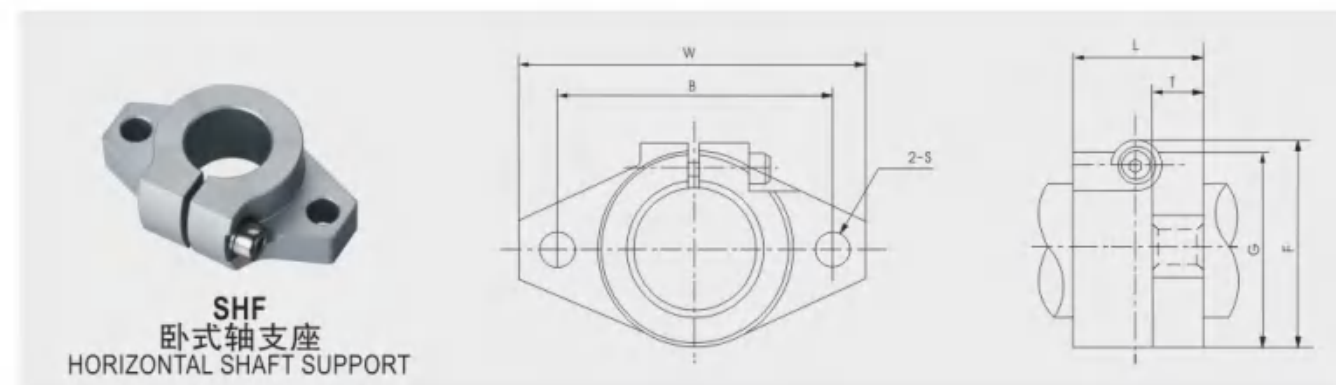
SKW立式轴支座
SK Stand-up shaft support
英制系列
Inch Series



型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS									重量 WEIGHT (Kg)
		H	E	W	L	F	G	P	B	S	
SKW04	0.25" 6.35	0.6875" 17.463	0.75" 19.05	1.50" 38.10	0.50" 12.70	1.063" 27	0.25" 6.35	0.50" 12.70	1.125" 28.575	0.156" 4.0	0.015
SKW06	0.375" 9.525	0.75" 19.05	0.8125" 20.637	1.625" 41.28	0.563" 14.3	1.187" 30.16	0.25" 6.35	0.688" 17.46	1.25" 31.75	0.156" 4.0	0.021
SKW08	0.50" 12.70	1.0" 25.40	1.0" 25.40	2.00" 50.80	0.63" 16	1.63" 41.4	0.25" 6.35	0.88" 22.35	1.50" 38.10	0.188" 4.8	0.035
SKW10	0.625" 15.875	1.0" 25.40	1.25" 31.75	2.5" 63.5	0.688" 17.46	1.78" 44.45	0.31" 7.88	1.0" 25.40	1.875" 47.625	0.218" 5.6	0.052
SKW12	0.75" 19.05	1.25" 31.75	1.25" 31.75	2.5" 63.5	0.75" 19.05	2.13" 54.1	0.31" 7.88	1.25" 31.75	2.00" 50.80	0.218" 5.6	0.082
SKW16	1.0" 25.40	1.50" 38.10	1.5315" 38.9	3.063" 77.8	1.0" 25.40	2.56" 65	0.38" 9.65	1.50" 38.10	2.5" 63.5	0.281" 7.1	0.145
SKW20	1.25" 31.75	1.75" 44.45	1.875" 47.625	3.75" 95.25	1.13" 28.7	3" 76.2	0.44" 11.18	2.00" 50.80	3" 76.2	0.346" 8.8	0.254
SKW24	1.50" 38.10	2.00" 50.80	2.1875" 55.563	4.375" 111.125	1.25" 31.75	3.5" 88.9	0.50" 12.70	2.25" 57.15	3.5" 88.9	0.346" 8.8	0.362
SKW32	2.00" 50.80	2.5" 63.5	2.75" 69.85	5.5" 139.7	1.50" 38.10	4.5" 114.3	0.63" 16	3" 76.2	4.5" 114.3	0.406" 10.5	0.716

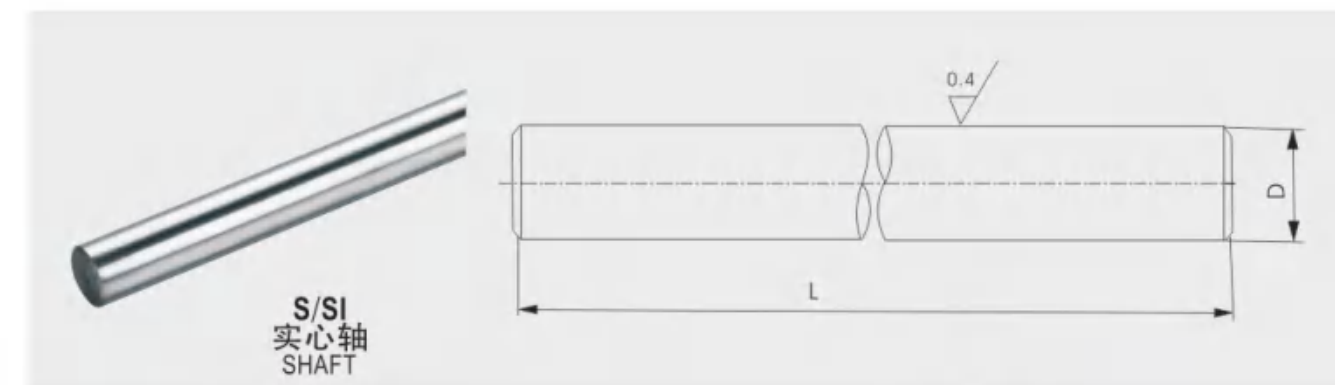


SHF卧式轴支座
SHF Horizontal shaft support



型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS							锁紧螺栓 DESIGNATION OF CLAMPING BOLT	安装螺栓 DESIGNATION OF MOUNTING BOLT	重量 WEIGHT (Kg)
		W	L	T	F	G	B	S			
SHF3	3	43	10	5	24	20	32	5.5	M4	M5	0.013
SHF4	4	43	10	5	24	20	32	5.5	M4	M5	0.013
SHF5	5	43	10	5	24	20	32	5.5	M4	M5	0.013
SHF6	6	43	10	5	24	20	32	5.5	M4	M5	0.013
SHF8	8	43	10	5	24	20	32	5.5	M4	M5	0.013
SHF10	10	43	10	5	24	20	32	5.5	M4	M5	0.013
SHF12	12	47	13	7	28	25	36	5.5	M4	M5	0.020
SHF13	13	47	13	7	28	25	36	5.5	M4	M5	0.020
SHF16	16	50	16	8	31	28	40	5.5	M4	M5	0.027
SHF20	20	60	20	8	37	34	48	7	M5	M6	0.040
SHF25	25	70	25	10	42	40	56	7	M5	M6	0.060
SHF30	30	80	30	12	50	46	64	9	M6	M8	0.110
SHF35	35	92	35	14	58	50	72	12	M8	M10	0.380
SHF40	40	102	40	16	67	56	80	12	M10	M10	0.510
SHF50	50	122	50	19	83	70	96	14	M12	M12	0.890

S/SI实心轴
S/SI Shaft



公制轴 (ASIA/EUROPE SHAFT)

型号 MODEL NO.	外径 OUTER DIAMETER D	精度 DIMETER TOLERANCE		淬硬层深度 DEPTH OF EFFECTIVE HARDEND LAYER	每米长重量 WEIGHT (Kg/m)
		g6	h6		
S6	6	-0.004 -0.012	0 -0.008	0.4~1.0	0.22
S8	8	-0.005 -0.014	0 -0.009		0.40
S10	10	-0.005 -0.014	0 -0.009		0.62
S12	12			0.6~1.5	0.89
S13	13	-0.006 -0.017	0 -0.011		1.04
S16	16				1.58
S20	20			0.8~2.0	2.47
S25	25	-0.007 -0.020	0 -0.013		3.85
S30	30				5.55
S35	35			0.8~3.0	7.55
S40	40	-0.009 -0.025	0 -0.016		9.87
S50	50				15.4

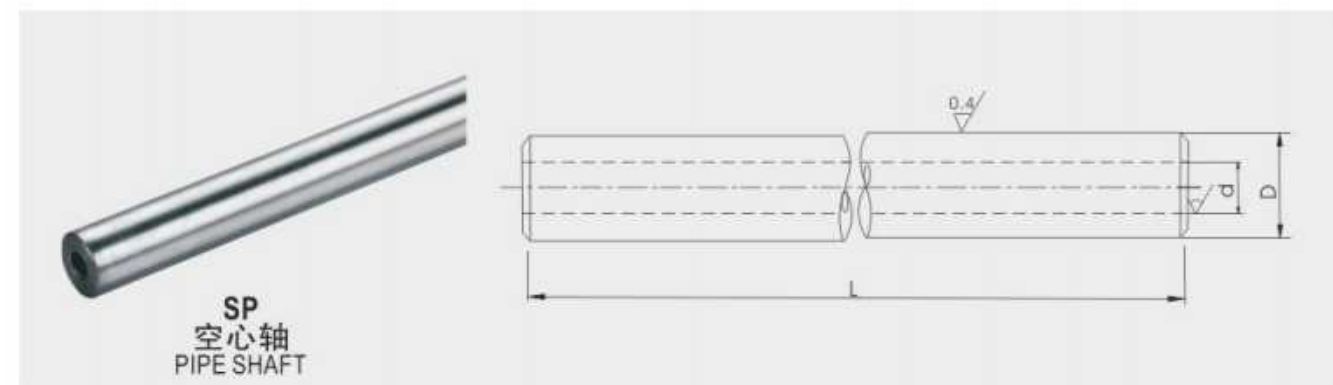
英制轴 (INCH SHAFT)

型号 MODEL NO.	外径 OUTER DIAMETER	精度 DIMETER TOLERANCE		淬硬层深度 DEPTH OF EFFECTIVE HARDEND LAYER	每米长重量 WEIGHT (Kg/m)
		g6	L级		
SI-04	6.35	-0.004 -0.012		0.4~1.0	0.25
SI-06	9.525	-0.005 -0.014		0.6~1.5	0.56
SI-08	12.7	-0.006 -0.017	-0.013		1.0
SI-10	15.875		-0.026		1.55
SI-12	19.05			0.8~2.0	2.24
SI-16	25.4	-0.007 -0.020			4.0
SI-20	31.75				6.21
SI-24	38.1	-0.009 -0.025	-0.015 -0.028	0.8~3.0	8.95
SI-32	50.8		-0.015 -0.033		15.9

材质: 45优质碳素钢(S45C), 硬度HRC58以上
GCr15轴承钢(SUJ2), 硬度HRC60以上
9Cr18不锈钢(SUS440), 硬度HRC52以上
表面可镀硬铬
Material: S45C, rigidity: more than HRC58
GCr15(SUJ2), rigidity: more than HRC60
9Cr18(SUS440), rigidity: more than HRC52
The surface have hard chromic plating and no hard chromic plating



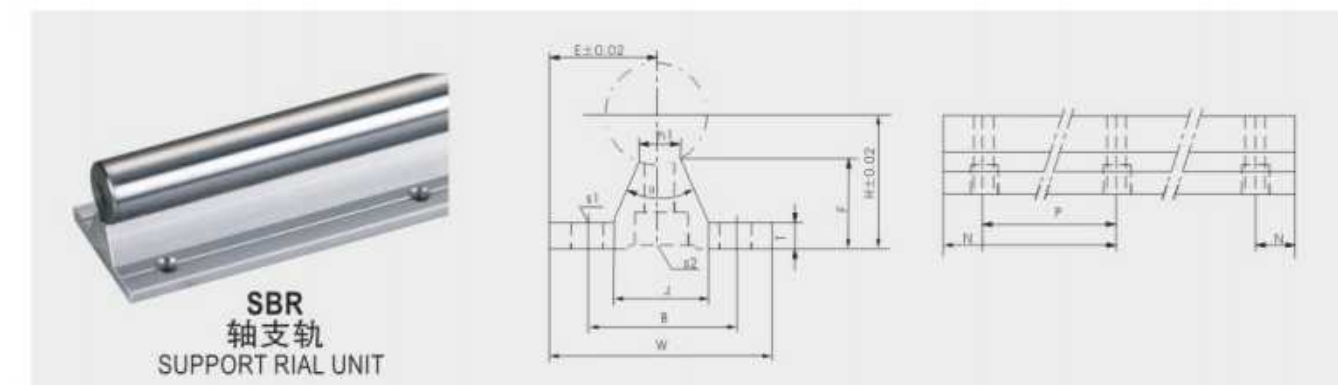
SP空心轴
SP Pipe shaft



型号 MODEL NO.	外径 OUTER DIAMETER	精度 DIMETER TOLERANCE		淬硬层深度 DEPTH OF EFFECTIVE HARDEND LAYER	每米长重量 WEIGHT(Kg/m)
		g6	h6		
SP16	16	-0.006 -0.017	0 -0.011	0.6~1.2	1.23
SP20	20	-0.007 -0.020	0 -0.013		1.26
SP25	25				1.68
SP30	30			3.97	
SP35	35	-0.009 -0.025	0 -0.016	0.8~2.0	5.44
SP40	40				5.37
SP50	50				7.42

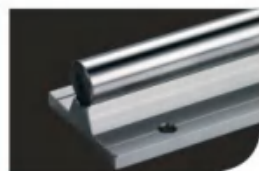
材质: GCr15轴承钢(SUJ2), 硬度HRC60以上
Material: GCr15(SUJ2), rigidity: more than HRC60
内径有多种规格, 订购前需确认
(ID have several size. Please affirm first)

SBR轴支轨
SBR Support rail unit

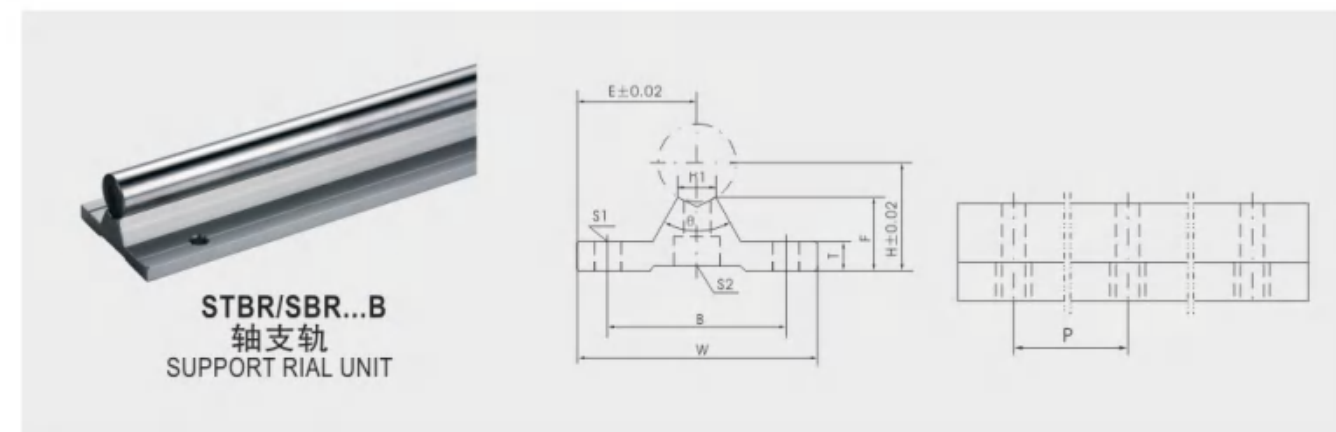


型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS								安装尺寸 MOUNTING DIMENSION					重量 WEIGHT (Kg)
		H	E	W	F	T	J	h1	θ	B	N	P	S1	S2	
SBR10	10	18	16	32	13.5	4	12.4	4.7	80°	22	50	100	4.5	M4	1.2
SBR12	12	20.46	17	34	15	4.5	15	6	80°	25	50	100	4.5	M4	1.8
SBR13	13	21	17	34	15	4.5	15	6	80°	25	50	100	4.5	M4	2.1
SBR16	16	25	20	40	17.8	5	18.5	8	80°	30	50	150	5.5	M5	2.4
SBR20	20	27	22.5	45	17.7	5	19	8	50°	30	50	150	5.5	M6	3.3
SBR25	25	33	27.5	55	21	6	21.5	8	50°	35	100	200	6.5	M6	5.31
SBR30	30	37	30	60	22.8	7	26.5	10.3	50°	40		200	6.5	M8	7.83
SBR35	35	43	32.5	65	26.5	8	28	13	50°	45		200	9	M8	9.88
SBR40	40	48	37.5	75	29.4	9	38	15.5	50°	55		300	9	M8	13.15
SBR50	50	62	47.5	95	38.8	11	45	20	50°	70		300	11	M10	20.4

注: 1、轴支轨长度任意。
2、安装孔中心距可以按25mm为单位订制。
Annotate: 1. length can random
2. Mounting hole center distance can make by buyer in denomination of 25mm



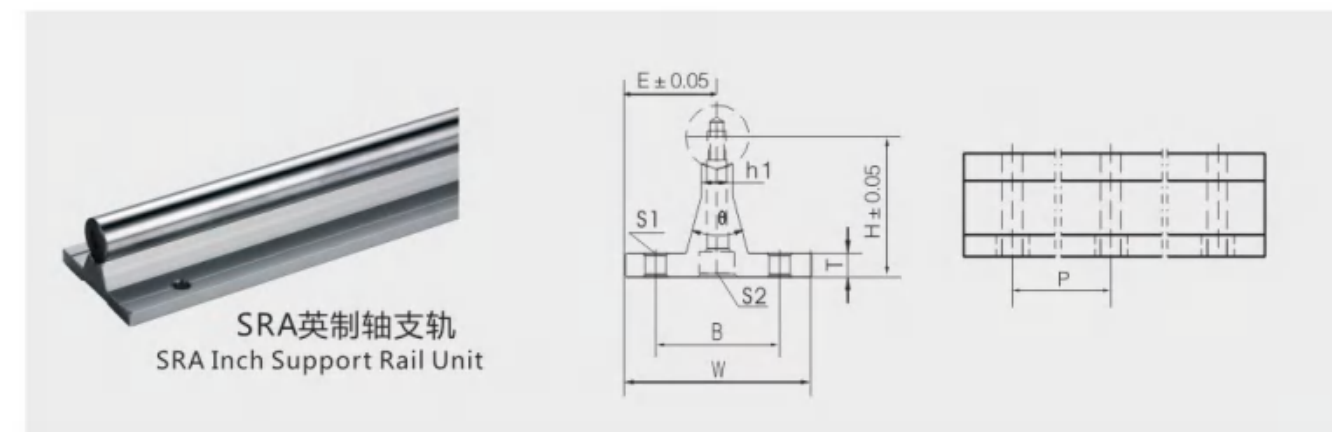
STBR/SBR...B轴支轨
STBR/SBR...B Support rail unit



型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS							安装尺寸 MOUNTING DIMENSION				重量 WEIGHT (Kg)
		H	E	W	F	T	h1	θ	B	P	S1	S2	
STBR16	16	22.14	25	50	15	6	8	60°	37	150	5.5	M5	2.5
STBR20	20	29.01	27.5	55	19.7	8	8	60°	40	150	5.5	M6	3.5
STBR25	25	32	32.5	65	20	10	8	60°	45	200	6.5	M6	5.5
STBR30	30	36.52	37.5	75	22.3	12	10.3	50°	55	200	6.5	M8	8
SBR16B	16	25	20	40	17.4	5	7.4	50°	30	150	5.5	M5	2.4
SBR20B	20	27	22.5	45	17.4	5	8	50°	30	150	5.5	M6	3.3
SBR25B	25	33	27.5	55	21	6	10	50°	35	200	6.5	M6	5.31
SBR30B	30	37	30	60	22.5	7	8	60°	40	200	6.5	M8	7.83

注：1、轴支轨长度任意。
2、安装孔中心距可以按25mm为单位订制。
Annotate: 1. length can random
2. Mounting hole center distance can make by buyer in denomination of 25mm

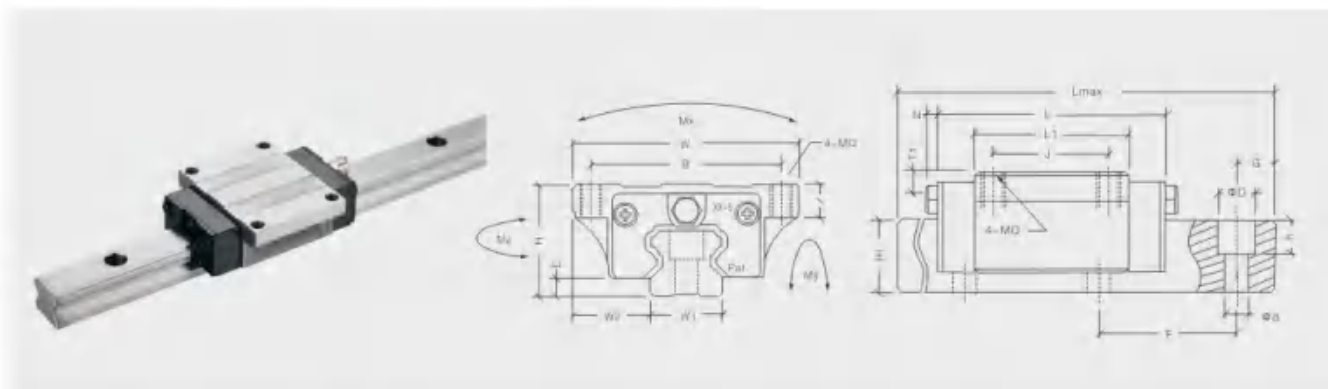
SRA英制轴支轨
SRA Inch Support Rail Unit



型号 MODEL NO.	轴径 SHAFT DIAMETER	主要尺寸 MAIN DIMENSIONS						安装尺寸 MOUNTING DIMENSION				重量 WEIGHT (Kg)
		H	E	W	T	h1	θ	B	P	S1	S2	
SRA08	12.7	28.575	19.05	38.1	4.763	6.35	30°	254	1016	43	6-32	0.89
SRA10	15.875	28.575	20.7	41.402	6.35	7.874	30°	28.575	1016	49	8-32	1.05
SRA12	19.05	38.1	22.225	44.45	6.35	9.652	30°	31.75	1524	56	10-32	1.48
SRA16	25.4	44.45	27.05	54.1	6.35	12.7	30°	38.1	1524	7.1	14-20	1.95
SRA20	31.75	53.975	31.75	63.5	7.874	14.224	30°	47.625	1524	8.7	5/16-18	2.80
SRA24	38.1	63.5	38.1	76.2	9.652	17.526	30°	57.15	2032	8.7	3/8-16	3.97
SRA32	50.8	82.55	47.625	95.25	12.7	22.225	30°	69.85	2032	10.31	1/2-13	6.53



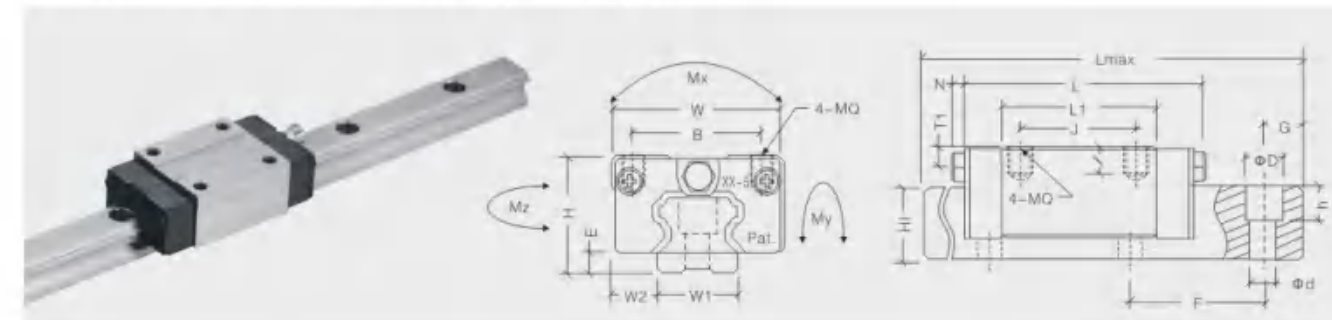
高组装、法兰型&重负荷加长型
International standard, with flange & long type



型号 MODEL NO.	组合尺寸(mm)				滑座尺寸(mm)							滑轨尺寸(mm)			
	H	W	W2	E	L	BXJ	MQXI	L1	油孔	T1	N	W1	H1	F	dxDxh
HLH15A	24	47	16	4.6	66	38x30	M5x8	40	Φ3	4.3	5	15	14	60	4.5x7.5x5.3
HLH20A	30	63	21.5	5	77.8	53x40	M6x9	48.8	M6x1	5	6.5	20	18	60	6x9.5x8.5
HLH20AL					92.4			63.4							
HLH25A	36	70	23.5	7	88	57x45	M8x12	57	M6x1	5	6.5	23	22	60	7x11x9
HLH25AL					110.1			79.1							
HLH30A	42	90	31	9	109	72x52	M10x12	72	M6x1	7	6.5	28	26	80	9x14x12
HLH30AL					131.3			94.3							
HLH35A	48	100	33	9.5	119	82x62	M10x13	80	M6x1	8	6.5	34	29	80	9x14x12
HLH35AL					144.8			105.8							
HLH45A	60	120	37.5	14	148.2	100x80	M12x15	105	M8x1	10	13	45	38	105	14x20x17
HLH45AL					173			129.8							
HLH55A	70	140	43.5	15	170	116x95	M14x20	121	M8x1	11	13	53	44	120	16x23x20
HLH55AL					205.1			156.1							

型号 MODEL NO.	参考资料(mm)		基本负荷(kgf)		容许静力矩(kgf*m)			重量	
	Lmax	G	动额定负荷(C)	静额定负荷(Co)	Mx	My	Mz	滑块(kg)	滑轨(kg/M)
HLH15A	4000	20	850	1650	10	8	8	0.19	1.4
HLH20A	4000	20	1450	2560	22	18	18	0.4	2.6
HLH20AL			1900	3330	28.6	23.4	23.4	0.52	
HLH25A	4000	20	2140	4000	36	32	31	0.57	3.6
HLH25AL			2996	5600	50.4	44.8	43.4	0.72	
HLH30A	4000	20	2980	5490	60	50	49	1.1	5.2
HLH30AL			3900	7190	78.5	65	65	1.4	
HLH35A	4000	20	3960	7010	96	75	73	1.6	7.2
HLH35AL			5230	9270	125	95	95	2	
HLH45A	4000	22.5	6740	12100	216	170	168	2.7	12.3
HLH45AL			8330	14950	267	210	210	3.6	
HLH55A	4000	30	9940	17100	367	293	288	5	16.9
HLH55AL			12820	22060	473	380	375	6.4	

高组装、无法兰型&重负荷加长型
International standard, with flange & long type

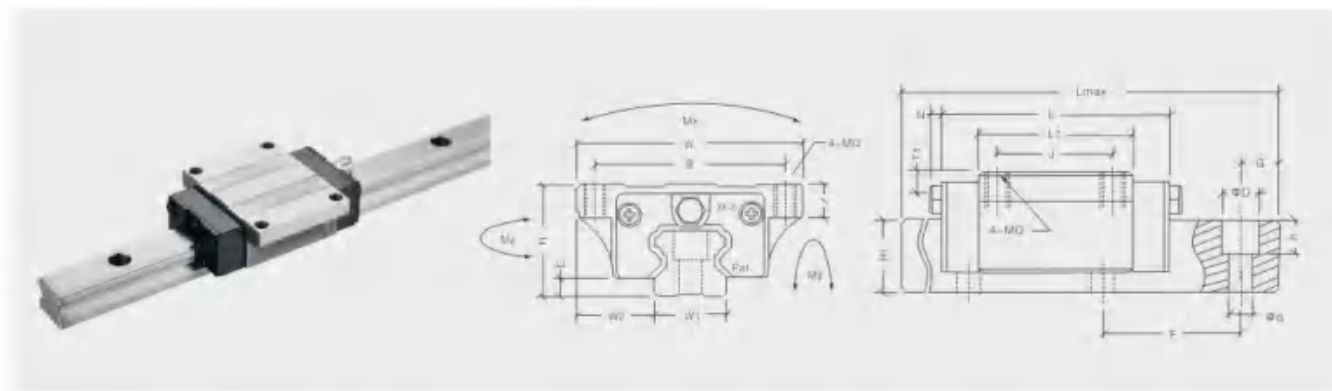


型号 MODEL NO.	组合尺寸(mm)				滑座尺寸(mm)							滑轨尺寸(mm)			
	H	W	W2	E	L	BXJ	MQXI	L1	油孔	T1	N	W1	H1	F	dxDxh
HLH15B	28	34	9.5	4.6	66	26x26	M4x6.4	40	Φ3	8.3	5	15	14	60	4.5x7.5x5.3
HLH20B	30	44	12	5	77.8	32x36	M5x8	48.8	M6x1	7	6.5	20	18	60	6x9.5x8.5
HLH20BL					92.4	32x50		63.4							
HLH25B	40	48	12.5	7	88	35x35	M6x9.6	57	M6x1	11.8	6.5	23	22	60	7x11x9
HLH25BL					110.1	35x50		79.1							
HLH30B	45	60	16	9	100	40x40	M8x12.8	72	M6x1	10	6.5	28	26	80	9x14x12
HLH30BL					131.3	40x60		94.3							
HLH35B	55	70	18	9.5	109	50x50	M8x12.8	80	M6x1	15	6.5	34	29	80	9x14x12
HLH35BL					144.8	50x72		105.8							
HLH45B	70	86	20.5	14	148.2	60x60	M10x16	105	M8x1	18	13	45	38	105	14x20x17
HLH45BL					173	60x80		129.8							
HLH55B	80	100	23.5	15	170	75x75	M12x19	121	M8x1	20	13	53	44	120	16x23x20
HLH55BL					205.1	75x95		156.1							

型号 MODEL NO.	参考资料(mm)		基本负荷(kgf)		容许静力矩(kgf*m)			重量	
	Lmax	G	动额定负荷(C)	静额定负荷(Co)	Mx	My	Mz	滑块(kg)	滑轨(kg/M)
HLH15B	4000	20	850	1650	10	8	8	0.21	1.4
HLH20B	4000	20	1450	2560	22	18	18	0.31	2.6
HLH20BL			1900	3330	28.6	23.4	23.4	0.47	
HLH25B	4000	20	2140	4000	36	32	31	0.45	3.6
HLH25BL			2996	5600	50.4	44.8	43.4	0.56	
HLH30B	4000	20	2980	5490	60	50	49	0.91	5.2
HLH30BL			3900	7190	78.5	65	65	1.2	
HLH35B	4000	20	3960	7010	96	75	73	1.5	7.2
HLH35BL			5230	9270	125	95	95	1.9	
HLH45B	4000	22.5	6740	12100	216	170	168	2.3	12.3
HLH45BL			8330	14950	267	210	210	2.8	
HLH55B	4000	30	9940	17100	367	293	288	3.9	16.9
HLH55BL			12820	22060	473	380	375	5	



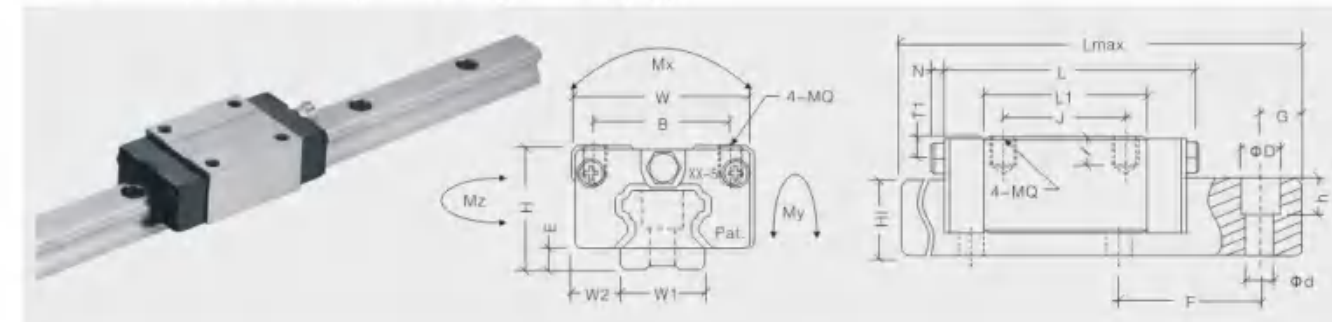
高组装、法兰型 & 重负荷加长型
International standard, with flange & long type



型号 MODEL NO.	组合尺寸(mm)				滑座尺寸(mm)						滑轨尺寸(mm)				
	H	W	W2	E	L	BXJ	MQXI	L1	油孔	T1	N	W1	H1	F	dxDxh
HLH15C	24	47	16	4.3	61.4	38x30	M5x8.9	39.4	Φ3	3.95	5.3	15	15	60	4.5x7.5x5.3
HLH20C	30	63	21.5	4.6	77.5	53x40	M6x10	50.5	M6x1	6	12	20	17.5	60	6x9.5x8.5
HLH20CL					92.2			65.2							
HLH25C	36	70	23.5	5.5	84	57x45	M8x14	58	M6x1	6	12	23	22	60	7x11x9
HLH25CL					104.6			78.6							
HLH30C	42	90	31	6	97.4	72x52	M10x16	70	M6x1	6.5	12	28	26	80	9x14x12
HLH30CL					120.4			93							
HLH35C	48	100	33	7.5	112.4	82x62	M10x18	80	M6x1	9	12	34	29	80	9x14x12
HLH35CL					138.2			105.8							
HLH45C	60	120	37.5	9.5	139.4	100x80	M12x22	97	M6x1	8.5	12.9	45	38	105	14x20x17
HLH45CL					171.2			128.8							
HLH55C	70	140	43.5	13	166.7	116x95	M14x26.5	117.7	M6x1	12	12.9	53	44	120	16x23x20
HLH55CL					204.8			155.8							

型号 MODEL NO.	参考资料(mm)		基本负荷(kgf)		容许静力矩(kgf*m)			重量	
	Lmax	G	动额定负荷(C)	静额定负荷(Co)	Mx	My	Mz	滑块(kg)	滑轨(kg/M)
HLH15C	4000	20	1138	2531	17	15	15	0.17	1.45
HLH20C	4000	20	1775	3784	38	27	27	0.40	2.21
HLH20CL			2118	4884	48	47	47	0.52	
HLH25C	4000	20	2648	5916	64	51	51	0.59	3.21
HLH25CL			3275	7600	87	88	88	0.80	
HLH30C	4000	20	3874	8306	106	85	85	1.09	4.47
HLH30CL			4727	11013	140	147	147	1.44	
HLH35C	4000	20	4952	10287	173	120	120	1.56	6.3
HLH35CL			6021	13631	229	208	208	2.06	
HLH45C	4000	22.5	7757	15593	301	235	235	2.79	10.41
HLH45CL			9454	20712	400	407	407	3.69	
HLH55C	4000	30	11444	22781	566	406	406	4.52	15.08
HLH55CL			13935	30126	749	701	701	5.96	

高组装、无法兰型 & 重负荷加长型
International standard, with flange & long type

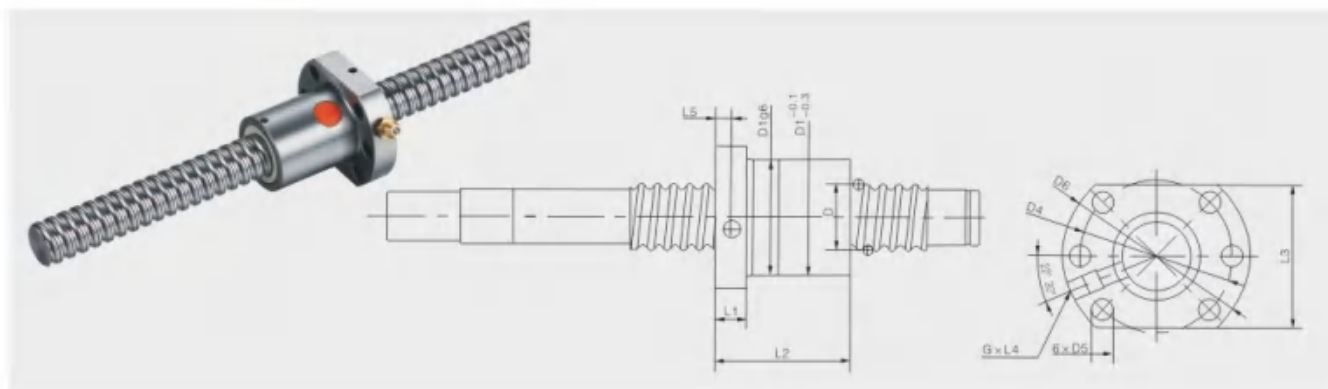


型号 MODEL NO.	组合尺寸(mm)				滑座尺寸(mm)						滑轨尺寸(mm)				
	H	W	W2	E	L	BXJ	MQXI	L1	油孔	T1	N	W1	H1	F	dxDxh
HLH15D	28	34	9.5	4.3x4	61.4	26x26	M4x5	39.4	Φ3	7.95	5.3	15	15	60	4.5x7.5x5.3
HLH20D	30	44	12	4.6	77.5	32x36	M5x6	50.5	M6x1	6	12	20	17.5	60	6x9.5x8.5
HLH20DL					92.2	32x50		65.2							
HLH25D	40	48	12.5	5.5	84	35x35	M6x8	58	M6x1	10	12	23	22	60	7x11x9
HLH25DL					104.6	35x50		78.6							
HLH30D	45	60	16	6	97.4	40x40	M8x10	70	M6x1	9.5	12	28	26	80	9x14x12
HLH30DL					120.4	40x60		93							
HLH35D	55	70	18	7.5	112.4	50x50	M8x12	80	M6x1	16	12	34	29	80	9x14x12
HLH35DL					138.2	50x72		105.8							
HLH45D	70	86	20.5	9.5	139.4	60x60	M10x17	97	M6x1	18.5	12.9	45	38	105	14x20x17
HLH45DL					171.2	60x80		128.8							
HLH55D	80	100	23.5	13	166.7	75x75	M12x18	117.7	M6x1	22	12.9	53	44	120	16x23x20
HLH55DL					204.8	75x95		155.8							

型号 MODEL NO.	参考资料(mm)		基本负荷(kgf)		容许静力矩(kgf*m)			重量	
	Lmax	G	动额定负荷(C)	静额定负荷(Co)	Mx	My	Mz	滑块(kg)	滑轨(kg/M)
HLH15D	4000	20	1138	2531	17	15	15	0.18	1.45
HLH20D	4000	20	1775	3784	38	27	27	0.30	2.21
HLH20DL			2118	4884	48	47	47	0.39	
HLH25D	4000	20	2648	5916	64	51	51	0.51	3.21
HLH25DL			3275	7600	87	88	88	0.69	
HLH30D	4000	20	3874	8306	106	85	85	0.88	4.47
HLH30DL			4727	11013	140	147	147	1.16	
HLH35D	4000	20	4952	10287	173	120	120	1.45	6.3
HLH35DL			6021	13631	229	208	208	1.92	
HLH45D	4000	22.5	7757	15593	301	235	235	2.73	10.41
HLH45DL			9454	20712	400	407	407	3.61	
HLH55D	4000	30	11444	22781	566	406	406	4.17	15.08
HLH55DL			13935	30126	749	701	701	5.49	



滚珠丝杠、法兰螺母 Ball screws flange nuts



型号 MODEL NO.	公称直径 D	导程	D1	D4	D5	D6	L1	L2	L3	L4	L5	油孔 G	钢球直径 (mm)	循环 圈数	额定载荷(kgf)	
															动载荷C	静载荷Co
SF1605-3	16	5	28	38	5.5	48	10	42	40	10	5	M6	φ3.175	3	780	1310
SF1605-4	16	5	28	38	5.5	48	10	50	40	10	5	M6	φ3.175	4	930	1790
SF2005-3	20	5	36	47	6.6	58	10	42	44	10	5	M6	φ3.175	3	1050	1660
SF2005-4	20	5	36	47	6.6	58	10	51	44	10	5	M6	φ3.175	4	1130	2380
SF2505-3	25	5	40	51	6.6	62	10	42	48	10	5	M6	φ3.175	3	1230	2250
SF2505-4	25	5	40	51	6.6	62	10	51	48	10	5	M6	φ3.175	4	1280	3110
SF3205-3	32	5	50	65	9	80	12	42	62	10	6	M8	φ3.175	3	1390	3950
SF3205-4	32	5	50	65	9	80	12	52	62	10	6	M8	φ3.175	4	1450	4150
SF3210-4	32	10	50	65	9	80	12	90	62	10	6	M8	φ6.35	4	3390	7170

滚珠丝杠精度C7级，任意300螺距误差小于0.05，轴向间隙0~0.05。

Ball screw precision is C7, Variation per 300mm is less than 0.05, axial play clearance is 0~0.05.

标记示例:

SFM 16 05 - 3

循环圈数

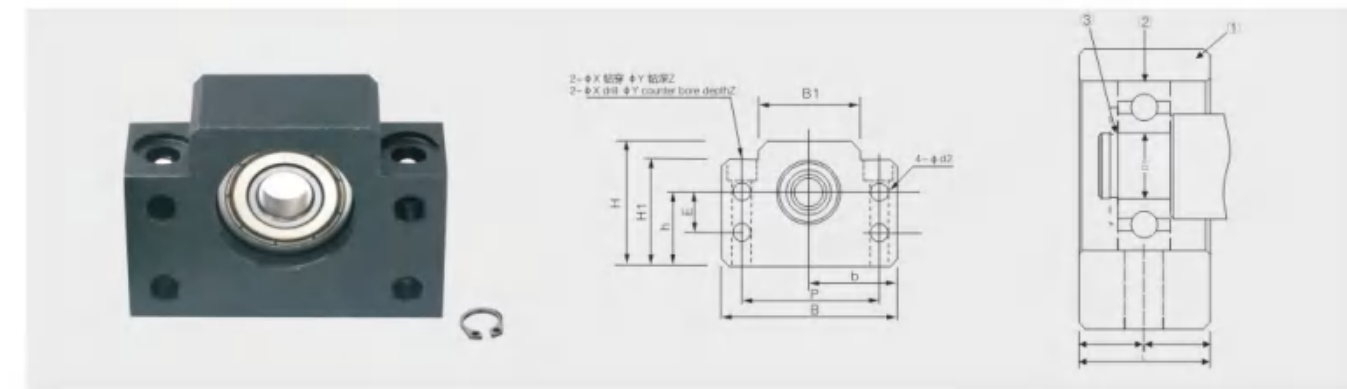
导程

公称直径

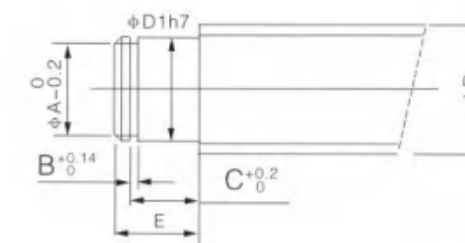
F: 法兰螺母, M: 圆螺母, FM: 法兰加长螺母

滚珠丝杠支撑座支持端 Ball screws supports

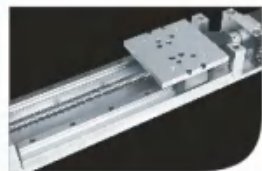
编号/Park No.	部品名称/Park name	数量/Qty
1	轴承座本体/Housing	1
2	轴承/Bearing	1
3	C型扣环/Holding lid	1



型号 MODEL NO.	轴径 SHAFT DIAMETER d1	L	B	H	b	h	B1	H1	E	P	d2	X	Y	Z	使用轴承 BEARING	使用C型扣环 SNAP RING
BF-12	10	20	60	43	30	25	35	32.5	18	46	5.5	6.6	11	1.5	6000ZZ	S10
BF-15	15	20	70	48	35	28	40	38	18	54	5.5	6.6	11	6.5	6002ZZ	S15
BF-17	17	23	86	64	43	39	50	55	28	68	6.6	9	14	8.5	6203ZZ	S17
BF-20	20	26	88	60	44	34	52	50	22	70	6.6	9	14	8.5	6004ZZ	S20



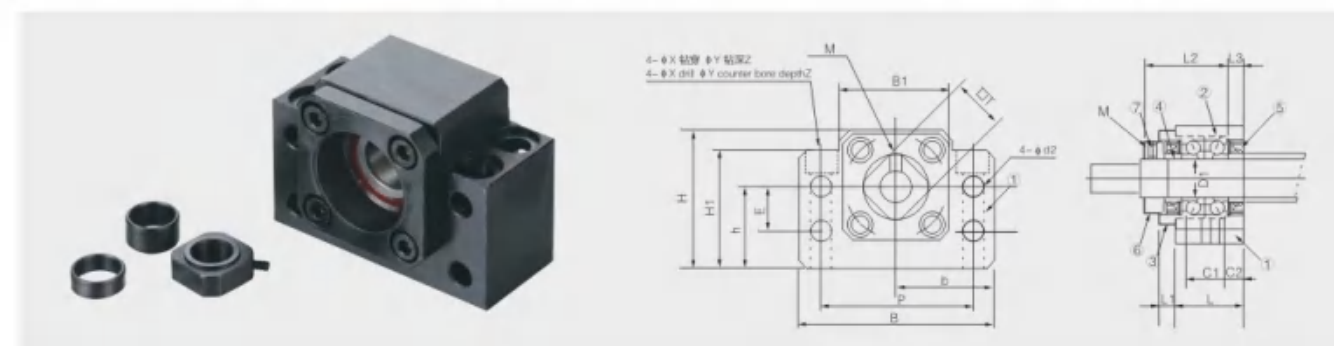
型号 MODEL NUBER BF型	适用轴杆外径 BALL SCREW OUTSIDE DIAMETER D	D1	E	c型扣环 LOCATING SNAP RING			型号 MODEL NUBER BF型
				A	B	C	
BF-12	φ 14, φ 15, φ 16, φ 18	10	11	9.6	1.15	9.15	BF-12
BF-15	φ 18, φ 20	15	13	14.3	1.15	10.15	BF-15
BF-17	φ 20, φ 25	17	16	16.2	1.15	13.15	BF-17
BF-20	φ 25, φ 28	20	16	19.0	1.35	13.35	BF-20



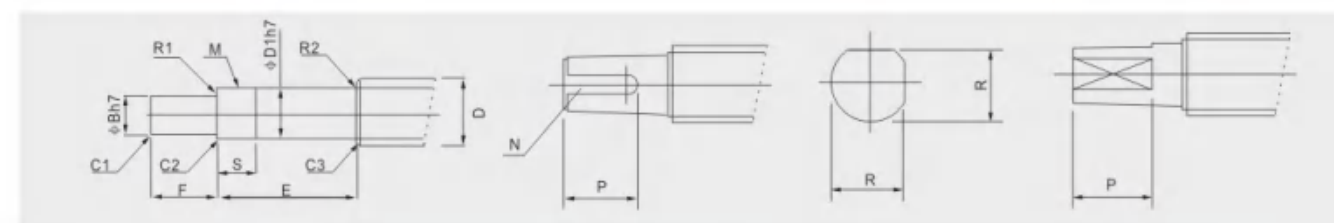
滚珠丝杠支撑座固定端 Ball screws supports

编号 PARK NO.	部品名称 PARK NAME	数量 QTY
1	轴承座本体 Housing	1
2	轴承 Bearing	2
3	压板 Holding lid	1
4	间隔圈 Collear	2

编号 PARK NO.	部品名称 PARK NAME	数量 QTY
5	轴封 Seal	2
6	锁固螺帽 Lock nut	1
7	内六角防松螺丝附铜片 Hexagon socket-head Setscrew (with set piece)	1

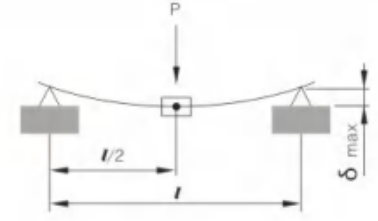
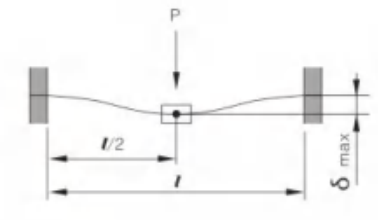
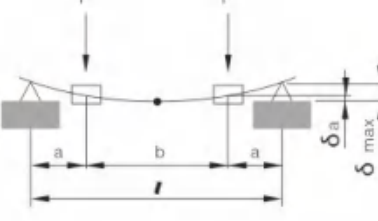
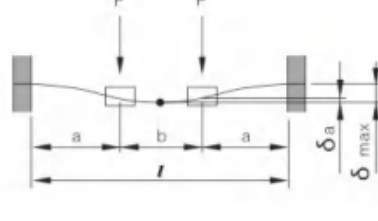
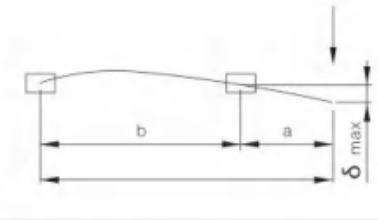


型号 MODEL NO.	轴径 SHAFT DIAMETER D1	L	L1	L2	L3	B	H	b	h	B1	H1	E	P	C1	C2	d2	X	Y	Z	M	T
BK12	12	25	6	29	5	60	43	30	25	35	32.5	18	46	13	6	5.5	6.6	11	1.5	M3	19
BK15	15	27	6	32	6	70	48	35	28	40	38	18	54	15	6	5.5	6.6	11	6.5	M3	22
BK17	17	35	9	44	7	86	64	43	39	50	55	28	68	19	8	6.6	9	14	8.5	M4	24
BK20	20	35	8	43	8	88	60	44	34	52	50	22	70	19	8	6.6	9	14	8.5	M4	30



型号 MODEL NUBER BK型	适用轴杆外径 BALL SCREW OUTSIDE DIAMETER D	D1	B	E	F	M	S	倒角 CHAMFER			圆角半径 RADIUS		H1 键槽(宽x深) KEY WAY DIMENSION		H2	
								C1	C2	C3	R1	R2MAX	N	P	R	P
BK12	Φ14, Φ15, Φ16, Φ18	12	10	39	15	M12x1	14	0.5	0.5	0.5	0.3	0.6	3x1.8	12	9.5	12
BK15	Φ18, Φ20	15	12	40	20	M15x1	12	0.5	0.5	0.5	0.3	0.6	4x2.5	16	11.3	16
BK17	Φ20, Φ25	17	15	53	23	M17x1	17	0.5	0.5	0.5	0.3	0.6	5x3.0	21	14.3	21
BK20	Φ25, Φ28	20	16	53	25	M20x1	15	0.5	0.5	0.5	0.3	0.6	5x3.0	21	16	21

轴挠度计算公式

支撑与载荷形式	挠度计公式
	$\delta_{\max} = \frac{P \cdot l^3}{48 \cdot E \cdot I} = 2.021 \times 10^{-6} \frac{P \cdot l^3}{d^4}$
	$\delta_{\max} = \frac{P \cdot l^3}{192 \cdot E \cdot I} = 5.053 \times 10^{-6} \frac{P \cdot l^3}{d^4}$
	$\delta_a = \frac{P \cdot a^2}{6 \cdot E \cdot I} (2a+3b) = 1.617 \times 10^{-4} \frac{P \cdot a^2 (2a+3b)}{d^4}$ $\delta_{\max} = \frac{P \cdot a^2}{24 \cdot E \cdot I} (3l^2-4a^2) = 4.042 \times 10^{-5} \frac{P \cdot a (3l^2-4a^2)}{d^4}$
	$\delta_a = \frac{P \cdot a^3}{6 \cdot E \cdot I} (2 - \frac{3a}{l}) = 1.617 \times 10^{-4} \frac{P \cdot a^3 (2 - \frac{3a}{l})}{d^4}$ $\delta_{\max} = \frac{P \cdot a^2}{24 \cdot E \cdot I} (2a+3b) = 4.042 \times 10^{-5} \frac{P \cdot a^2 (2a+3b)}{d^4}$
	$\delta_{\max} = \frac{P \cdot a^2 l}{3 \cdot E \cdot I} = 3.234 \times 10^{-4} \frac{P \cdot a^2 l}{d^4}$

E: 弹性模量 2.1×10^4 (kgf/mm²)

P: 工作载荷 (kgf)

I: 惯性矩 (mm⁴); 实心轴: $I = \pi d^4 / 64$, 空心轴: $I = \pi (d^4 - d_i^4) / 64$

[Di: 内径 (mm), d: 外径 (mm)]

恒力已在世界各地及国内各省市设置了完善的销售与服务网络,为您提供准确、高效的服务,并及时与总公司联系,竭诚为您提供直线运动球轴承和相关直线运动系列产品、及时了解并解决直线运动产品的相关问题。

