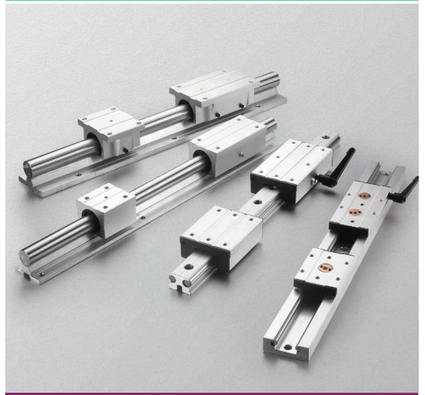
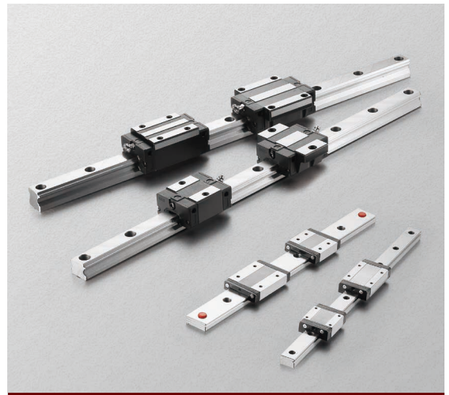
OBD

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- 滚珠丝杠支撑座
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- 线性滑轨
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- 电机座
- 滑台模组
- 直线模组
- 无尘环境模组
- ＫＫ型精密直线模组
- 轴承









Expert In Precision Transmission Parts

欧必帝（天津）传动科技有限公司

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Special remind: the company reserves the right to modify product appearance and accessories, such as the right to change without separate notice all the products, size and color in kind prevail.

- BALL SCREW
- BALL SCREW BRACKETS
- COUPLING / NUT HOUSING
- LINEAR GUIDEWAY
- LINEAR SHAFT
- ROLLER / CYLINDRICAL GUIDE SET LINEAR
- MOTION SLIDE UNITS
- COPPER BUSHING
- CIRCULAR ARC GUIDE RAIL
- COMBINED TRANSMISSION BASE
- MOTOR MOUNT
- LINEAR SLIDE MODULELINEAR
- MODULEDUST-FREE ENVIRONMENT LINEAR MODULE
- KK TYPE PRECISION LINEAR MODULE
- BEARING

OBD

Expert In Precision Transmission Parts

# GENERAL CATALOGUE

## 综合型录

# COMPANY PROFILE
企业简介

## Our Partners

**OBD (Tianjin) Transmission Technology Co., LTD .**

Looking forward to cooperating with you !

欧必帝（天津）传动科技有限公司成立于 2008 年 . 坐落于浙江丽水，自建52000 多平方米的研发和生产基地，一直专注精密传动部件行业: 滚珠丝杆副，线性导轨，滚轮导轨，直线光轴，直线滑动单元等，是一家集研发，生产，销售，服务为一体的高新科技企业，公司先后引进德国 . 日本 . 台湾等先进设备和技术，拥有多项产品设计专利并通过 ISO9001 等认证，是您值得信赖的合作伙伴。期待与您携手共创美好未来。

**理念:**
诚信为本，服务至上，始于客户需求，终于客户满意，共创双赢。
**使命:**
以科技及创新改善产品品质，为您提供高质量产品及服务。
**愿景:**
坚定不移向高品质高峰攀登，着力进军世界级先进制造业 。

OBD (Tianjin) Transmission Technology Co., LTD was founded in 2008 and is located in Lishui City, Zhejiang Province. We take pride in our state-of-the-art R&D and production facility, covering an impressive 52,000 square meters. Our expertise lies in manufacturing precision transmission components, such as ball screw assemblies, linear guides, roller guides, linear shafts, and linear sliding units. As a distinguished high-tech enterprise, we seamlessly integrate research and development, production, sales, and service. We have successfully incorporated advanced equipment and cutting-edge technologies from renowned countries like Germany, Japan, and Taiwan. Our commitment to innovation has led to the acquisition of multiple product design patents, and we proudly adhere to ISO9001 certification standards. With us, you can confidently rely on a reliable partnership. We eagerly anticipate the opportunity to collaborate with you in shaping a brighter future.

**OUR PHILOSOPHY:**
Integrity is at the core of our values, and providing excellent service is our top priority. We begin by understanding your needs and strive to ensure your utmost satisfaction, forging a mutually beneficial relationship.
**OUR MISSION:**
Through technology and innovation, we strive to enhance product quality and deliver exceptional products and services to you.
**OUR VISION:**
We are firmly dedicated to reaching the pinnacle of high-quality standards and venturing into the realm of world-class advanced manufacturing industries.
We are excited about the opportunity to work with you and exceed your expectations.





# PRODUCTION FACILITY

## 加工设备









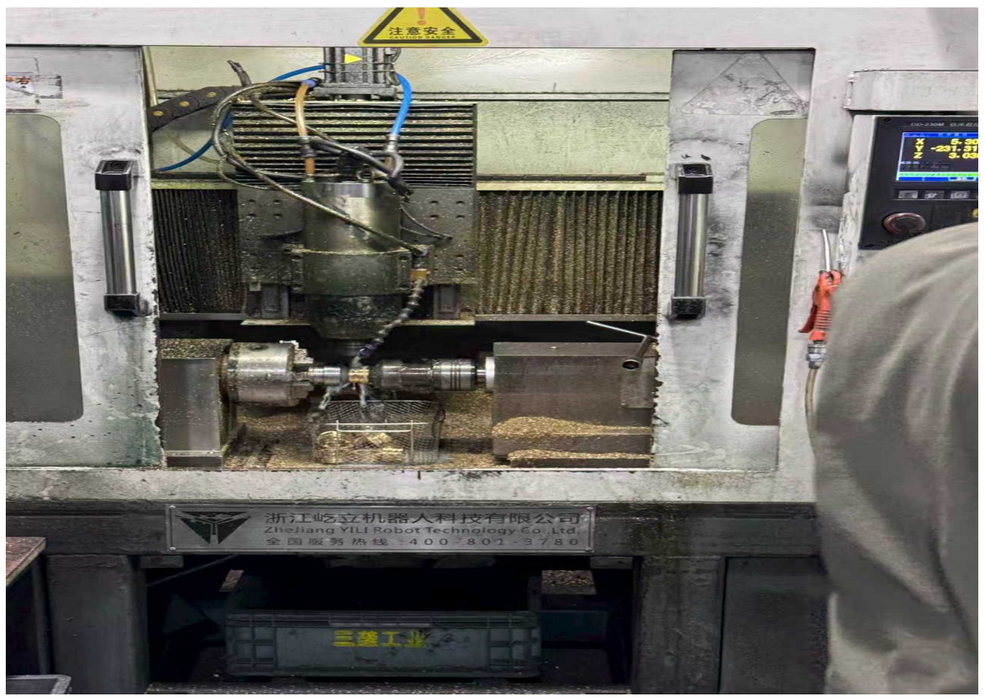


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# 滚珠丝杠副
# BALL SCREW





## 滚珠丝杠副选型 Ball Screw Selection

| SFU | R | 025 | 05 | T4 | D | G | C5 | – | 600 | – | P1 | – | B2 | + | N3 | N3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | | ⑨ | | ⑩ | | ⑪ | | ⑫ | ⑬ |

①

| 公称型号 Nominal Model | |
|---|---|
| S | S: 单螺母 Single nut |
| | D: 双螺母 Double nut |
| | O: 一体式螺母 Off set double nut |
| F | F: 有法兰 With flange |
| | C: 无法兰 Without flange |
| I | NI: NI 型螺母 NI type nut |
| U | NU: NU 型螺母 NU type nut |
| | A: A 型螺母 ( 滑台专用 ) A type nut (A solution for slide table) |
| | Y: Y 型螺母 Y type nut |
| | U: DIN 型螺母 DIN type nut |
| | K: K 型螺母 K type nut |
| | S: S 型螺母 ( 滑台专用 ) S type nut (A solution for slide table) |

②

| 螺纹方向 Threading Direction |
|---|
| R: 右 Right |
| L : 左 Left |

③

| 丝杠轴外径 Nominal Diameter |
|---|
| 单位 Unit : mm |

④

| 导程 Lead |
|---|
| 单位 Unit : mm |

⑤

| 珠卷数 ( 卷数．列数 ) Number of Turns (Turn·Row) |
|---|
| 卷数 Turn : T:1 |
| A:1.5 ( or 1.7/1.8 ) |
| B:2.5/2.8 |
| C:3.5 |
| D:4.8 |
| 例 ex :( 2.5×2 = B2 ) |

⑥

| 法兰型式 Flange Type |
|---|
| N: 无切边 Not cutting |
| S: 单切边 Single cutting |
| D: 双切边 Double cutting |

⑦

| 制程代号 Product Code |
|---|
| G: 研磨 Grind |
| F: 转造 Rolled |

⑧

| 导程精度等级 Accuracy Grade |
|---|
| C0, C1, C2, C3, C5, C7, C10 |

⑨

| 丝杠轴长度 Overall Length of Shaft |
|---|
| 单位 :mm |

⑩

| 轴方向间隙预压等级 Axial Clearance and Preload Value |
|---|
| P0, P1, P2, P3, P4 |

⑪

| 螺帽 Number of Nut |
|---|
| ( 若为 1 个时省略 ) 例：一轴两个螺母：B2<br>(Leave blank if only one nut is required)<br>Ex : Install two nuts on a shaft B2 |

⑫

| 螺帽表面处理 Nut Surface Treatment |
|---|
| S: 标准 Standard |
| B1: 染黑 Black Oxidation |
| N1: 镀铬 Hard Chrome Plating |
| N3: 镀镍 Nickel Plating |

⑬

| 丝杠表面处理 Shaft Surface Treatment |
|---|
| S: 标准 Standard |
| B1: 染黑 Black Oxidation |
| N1: 镀铬 Hard Chrome Plating |
| N3: 镀镍 Nickel Plating |

- 当螺母、丝杠均无表面处理时，则省略标示。
  No symbol required when plating is not needed.

# 精度设计 Design Accuracy

## 1-1-1 导程精度 Lead / Travel Accuracy

精密滚珠丝杠 (C0 级 ~C10 级 ) 的导程精度，以 JIS 规格为基准，并由四个特性项目 (E,e,$e_{300}$,$e_{2\pi}$) 加以规定。各特性之定义与容许值如图 1.1.1 及表 1.1.1~1.1.3 所示。一般用滚珠丝杠 C7,C10 之累积导程误差，则仅以在有效螺纹长度范围内任取 300mm 的最大幅宽的误差容许值，和表 1.1.3 之 $e_{300}$ 加以规定，各为 0.05mm 及 0.21mm。

According to the standard of JIS,we classified our lead accuracy through E, e, $e_{300}$ and $e_{2\pi}$, four main regulations. As figure 1.1.1 ~ 1.1.3 shown in below, all the definition and tolerance are specified.To test the accumulated travel deviations for grade C7 and C10, the tolerance will be chosen in random 300mm of useful length and evaluated if it is qualified with the e300 table of 1.1.3.

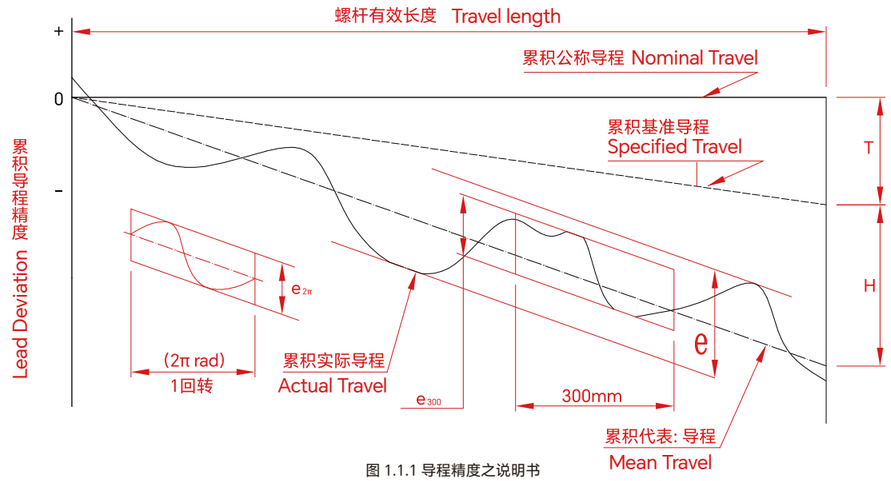



图 1.1.1 导程精度之说明书
Fig 1.1.1 Diagram of Lead Accuracy

| 用语 Terms | 记号 Reference | 说明 Definition | 容许值 Allowable |
|---|---|---|---|
| 累积导程之目标值<br>Travel Compensation | T | 在有效螺纹范围内，累积基准导程减累积公称导程的差谓之，亦即考虑运转时之热膨胀、弹性变形等因素。而事先将累积公称导程加以补正，并据此制作丝杠。其值依实验或经验而定。<br>Travel compensation is the deduction between specified and nominal travel in the useful travel. A slightly smaller value compared with nominal travel is often selected by customer, to compensate for an expected elongation caused by temperature rise or external load. Therefore " T " is usually a negative value.<br>Note : if no compensation is needed, specified travel is the same as nominal travel. | |
| 累积实际导程<br>Actual Travel | | 实际测定之累积导程。<br>Actual travel is the axial displacement of the nut relative to the screw shaft. | |
| 累积代表导程<br>Mean Travel | | 代表累积实际导程倾向的直线，由累积实际导程曲线藉最小二乘法或类似方法，所求得的直线。<br>Mean travel is the linear best fit line of actual. This could be obtained by the least squares method. This line represents the tendency of actual travel. | |
| 累积代表导程之误差<br>Mean Travel Deviation | E | 累积代表导程减累积基准导程的值。<br>Mean travel deviation is the deduction between mean travel and specified travel within travel length. | 表 Table 1.1.2 |
| 变动<br>Travel Variations | e<br>$e_{300}$<br>$e_{2\pi}$ | 与累积代表导程平行划出的 2 直线所夹之累积实际导程之最大幅宽由下列 3 项加以规定。<br>在有效螺纹长度范围内的最大幅宽。<br>在有效螺纹长度范围内任取 300mm 的最大幅宽。丝杠轴转动 1 圈的范围内，螺母对应于任意回转角的轴方向移动量的实测值与基准值的差的最大幅宽。<br>Travel variations is the coverage of 2 lines drawn parallel to the mean travel.<br>Maximum width of variation within the travel length.<br>Actual width of variation for the length of 300mm taken anywhere within the travel length.<br>Wobble error, actual width of variation for one revolution (2π radian) | 表 Table 1.1.2<br>表 Table 1.1.3<br>表 Table 1.1.3 |



精度设计 Design Accuracy
滚珠丝杠副

表 Table 1.1.2 累积代表导程误差 (±E) 与变动 (e) 之容许值 (JIS B 1192)
Mean Travel Deviation (±E) and Travel Variation (e) (JIS B 1192)

单位 Unit : μm

| 精度等级 Grade | | | C0 | | C1 | | C2 | | C3 | | C5 | | C7 | C10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 有效螺纹长度 Travel Length (mm) | 以上 Over | 以下 Incl. | ±E | e | ±E | e | ±E | e | ±E | e | ±E | e | e | e |
| | | 100 | 3 | 3 | 3.5 | 5 | 5 | 7 | 8 | 8 | 18 | 18 | | |
| | 100 | 200 | 3.5 | 3 | 4.5 | 5 | 7 | 7 | 10 | 8 | 20 | 18 | | |
| | 200 | 315 | 4 | 3.5 | 6 | 5 | 8 | 7 | 12 | 8 | 23 | 18 | | |
| | 315 | 400 | 5 | 3.5 | 7 | 5 | 9 | 7 | 13 | 10 | 25 | 20 | | |
| | 400 | 500 | 6 | 4 | 8 | 5 | 10 | 7 | 15 | 10 | 27 | 20 | | |
| | 500 | 630 | 6 | 4 | 9 | 6 | 11 | 8 | 16 | 12 | 30 | 23 | | |
| | 630 | 800 | 7 | 5 | 10 | 7 | 13 | 9 | 18 | 13 | 35 | 25 | | |
| | 800 | 1000 | 8 | 6 | 11 | 8 | 15 | 10 | 21 | 15 | 40 | 27 | | |
| | 1000 | 1250 | 9 | 6 | 13 | 9 | 18 | 11 | 24 | 16 | 46 | 30 | | |
| | 1250 | 1600 | 11 | 7 | 15 | 10 | 21 | 13 | 29 | 18 | 54 | 35 | ±50/300mm | ±210/300mm |
| | 1600 | 2000 | | | 18 | 11 | 25 | 15 | 35 | 21 | 65 | 40 | | |
| | 2000 | 2500 | | | 22 | 13 | 30 | 18 | 41 | 24 | 77 | 46 | | |
| | 2500 | 3150 | | | 26 | 15 | 36 | 21 | 50 | 29 | 93 | 54 | | |
| | 3150 | 4000 | | | 30 | 18 | 44 | 25 | 60 | 35 | 115 | 65 | | |
| | 4000 | 5000 | | | | | 52 | 30 | 72 | 41 | 140 | 77 | | |
| | 5000 | 6300 | | | | | 65 | 36 | 90 | 50 | 170 | 93 | | |
| | 6300 | 8000 | | | | | | | 110 | 60 | 210 | 115 | | |
| | 8000 | 10000 | | | | | | | | | 260 | 140 | | |
| | 10000 | 12500 | | | | | | | | | 320 | 170 | | |

表 Table 1.1.3 对螺纹部长度 300mm 之变动 (e300) 与摇摆 (e2π) 之容许值 (JIS B 1192)
International standard of accuracy grade for ball screw

单位 Unit : μm

| 精度等级 | C0 | C1 | C2 | C3 | C5 | C7 | C10 |
|---|---|---|---|---|---|---|---|
| $e_{300}$ | 3.5 | 5 | 7 | 8 | 18 | 50 | 210 |
| $e_{2\pi}$ | 2.5 | 4 | 5 | 6 | 8 | | |

## 1-1-2 轴方向间隙 Axial Play

精密滚珠丝杠之轴方向间隙预压等级，如表 1.1.4 所示。
Axial play of 'OBD precision ball screw is shown below:

表 Table 1.1.4 轴方向间隙预压等级 Classification of Axial Play

| 精度等级 Grade | P0 | P1 | P2 | P3 | P4 |
|---|---|---|---|---|---|
| 间隙 Axial Play | 有 Yes | 无 No | 无 No | 无 No | 无 No |
| 预压 Preload | 无 No | 无 No | 轻 Light | 中 Medium | 重 Heavy |

过大的预压力将造成摩擦扭矩大增及温升效应，而使得预期寿命减短；但太低的预压力会使得滚珠丝杠刚性不足及增加失步 (LOST MOTION) 的可能性。欧必帝建议您，于 CNC 工具机的使用上，以不超过 8% 动负荷为预压力的最大值；于自动化 X-Y 平台机构上则以不超过 5% 的动负荷为预压力之最大值。

Excessive preload increases the friction torque and generates heat which will reduce the life expectancy. However, insufficient preload will reduce stiffness and increase the possibility of lost motion. OBD recommends that the preload applied on CNC machine tools should not heavier than 8% of the dynamic load; 5% for industrial automation X-Y table.

# 精度设计 Design Accuracy

表 Table 1.1.5 预压 (P2) 参考值 The reference spring force of (P2)

| 规格<br>Model No. | 单螺帽弹簧力 (Kg)<br>Spring Force (Kg) Single Nut | 双螺帽弹簧力 (Kg)<br>Spring Force(Kg) Double Nut |
|---|---|---|
| 1605 | 0.1~0.3 | 0.3~0.6 |
| 2005 | 0.1~0.3 | 0.3~0.6 |
| 2505 | 0.2~0.5 | 0.3~0.6 |
| 3205 | 0.2~0.5 | 0.5~0.8 |
| 4005 | 0.2~0.5 | 0.5~0.8 |
| 2510 | 0.2~0.5 | 0.5~0.8 |
| 3210 | 0.3~0.6 | 0.5~0.8 |
| 4010 | 0.3~0.6 | 0.5~0.8 |
| 5010 | 0.3~0.6 | 0.8~1.2 |
| 6310 | 0.6~1.0 | 0.8~1.2 |
| 8010 | 0.6~1.0 | 0.8~1.2 |

表 Table 1.1.6 转造级及研磨级滚珠丝杠 (P0) 最大轴向间隙
Axial Play (P0) Clearance in the Axial Direction of Rolled and Grind Ball Screw

单位 Unit : mm

| 丝杠外径尺寸<br>Nominal Diameter | 转造级滚珠丝杠最大轴向间隙<br>Rolled Ball Screw Clearance in the Axial Direction (max.) | 研磨级滚珠丝杠最大轴向间隙<br>Ground Ball Screw Clearancein the Axial Direction (max.) |
|---|---|---|
| Φ04~Φ14 微小型滚珠丝杠 miniature ball screw | 0.05 | 0.015 |
| Φ15~Φ40 中尺寸滚珠丝杠 middle size of ball screw | 0.08 | 0.025 |
| Φ50~Φ100 大尺寸滚珠丝杠 big size of ball screw | 0.12 | 0.05 |

## 1-1-3 滚珠丝杠的安装部位精度 Definition of Mounting Accuracy and Tolerance on Ball Screw

滚珠丝杠的安装部位之精度，其必要项目如下：

(1) 相对于螺纹沟面的轴线 A，测定丝杠支持部位的半径方向圆周偏摆值。

(2) 相对于丝杠支持部位的轴线 F，测定零件安装部位的同轴度。

(3) 相对于丝杠轴支持部位的轴线 E，测定支持部位的端面的直角度。

(4) 相对于丝杠轴线 G，测定螺母的基准面或法兰的安装面的直角度。

(5) 相对于丝杠轴线 A，测定螺母外缘圆周（圆筒型）的同轴度。

(6) 相对于丝杠轴线 C，测定螺母外缘（平头型安装面）的平行度。

(7) 丝杠轴线的半径方向的总偏摆值。

在此所述之精度项目是以 JISB1191、1192 为基准。

The main items of the mounting accuracy of ball screw are listed in below.

(1) Periphery run-out of the supporting part of the screw shaft to the screw groove.

(2) Concentricity of a mounting portion of the shaft to the adjacent ground portion of the screw shaft.

(3) Perpendicularity of the shoulders to the adjacent ground portion of tha screw shaft.

(4) Perpendicularity of the nut flange to the axis of the screw shaft.

(5) Concentricity of the ball nut diameter to the screw groove.

(6) Parallelism of the mounting surface of a ball nut to the screw groove.

(7) Total run-out of the screw shaft to the axis of the screw shaft.

All OBD ball screws are manufactured, inspected and guaranteed to be within specifications.

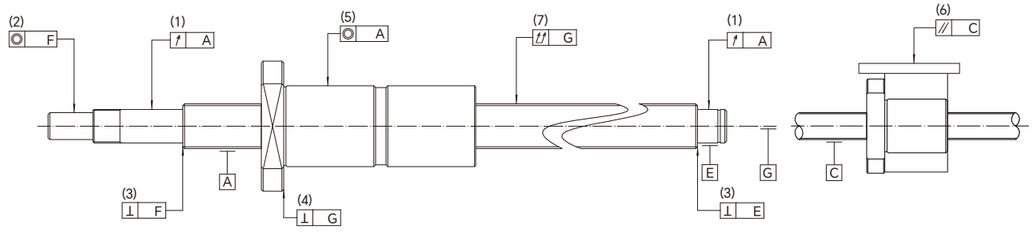



图 1.1.2 滚珠丝杠安装部位的精度
Fig 1.1.2 Mounting Accuracy and Tolerance





精度设计 Design Accuracy

## 1-1-4 预压扭矩 Preload Torque

转动有施予预压之滚珠丝杠时，产生之预压扭矩用语如 图 1.1.3 所示。而预压扭矩变动率的容许范围大致上是以 JIS 规格为基准，如表 1.1.7 所示。

As figure 1.1.3 shown in below, it specified all the type of preload torque generated by rotating a preloaded ball screw.

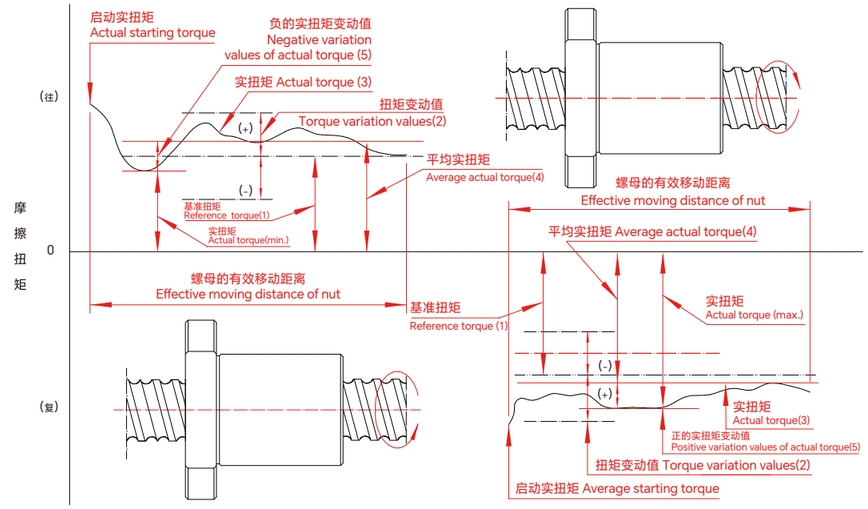



图 1.1.3 预压扭矩的说明
Fig 1.1.3 Descriptions of preload torque

## 用语之意义 Glossary

### 1. 预压

为求消除丝杠的间隙增大丝杠之刚性而将 1 组大 1 号的钢珠（约 2μ）填入螺母内，或者使用在丝杠轴方向互相施予移位的两个螺母而产生的丝杠内部的作用力。

### 2. 预压动扭矩

依所定之预压加诸于滚珠丝杠后，在外部无负载的状态下，连续转动丝杠轴或螺母所需之动扭矩谓之。

### 3. 基准扭矩

做为目标所设定的预压动扭矩图 1.1.3 之 (1)。

### 4. 扭矩变动值

做为目标所设定的预压动扭矩的变动值。取相对于基准扭矩的正或负值。

### 1. Preload

To generate the inner force inside the ball screw to decrease the clearence and increase the rigidity, a set of one gage ( approximately 2μ ) larger steel balls is filled inside the nut or two nuts which are executing mutual displacement in axial direction.

### 2. Preload dynamic torque

The dynamic torque required for continuously rotating the screws shaft or the nuts under unload condition and the preload has applied to the ball screws.

### 3. Reference torque

The targeted preload dynamic torque Fig 1.1.3-(1)

### 4. Torque variation values

The variation values of the targeted preload torque variation rates are specified.Take a positive or negative value relative to the reference torque.

# 精度设计 Design Accuracy

**5. 扭矩变动率**
相对于基准扭矩的变动值的比率

**6. 实扭矩**
滚珠丝杠的实测预压动扭矩

**7. 平均实扭矩**
螺纹部有效长度内；使螺母做往复运动所测得之实扭矩最大与最小值的算术平均数。

**8. 实扭矩变动值**
螺纹部有效长度内；使螺母做往复运动所测得之最大变动值，最小值取相对于实扭矩的正或负值。

**9. 实扭矩变动率**
相对于平均实扭矩的变动值比率。

**5. Torque variation rate**
The variation ratio of reference torque.

**6. Actual torque**
The actual measured preload dynamic torque of the ball screws.

**7. Average actual torque**
The arithmetic average of the maximal and minimal actual torque values measured when the nuts are doing reciprocating movements.

**8. Actual torque variation values**
After the nut doing reciprocating movements on the effective length of the thread, the biggest variation tested will be the actual torque variation value, which is covered between the positive and negative minimum value relative to the actual torque.

**9. Actual torque variation rate**
The rate of actual torque variation values in relation of the average actual torque.

表 Table 1.1.7 扭矩变动率的容许范围 Permissible ranges of toque variation rates

| 基准扭矩 Reference torque kgf· cm | | 有效丝杠长度 Effective threading length mm | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 4000 以下 Below 4000 | | | | | | | | 4000~10000 以下 | | |
| | | 细长比 1: 40 以下 Slenderness 1 : below 40 | | | | 细长比 :40~1：60 Slenderness1 : 40~1 : 60 | | | | - | | |
| | | 等级 Grade | | | | 等级 Grade | | | | 等级 Grade | | |
| 超过 | 以下 | C0 | C1 | C2, C3 | C5 | C0 | C1 | C2, C3 | C5 | C1 | C2, C3 | C5 |
| 2 | 4 | ±35% | ±40% | ±45% | ±55% | ±45% | ±45% | ±55% | ±65% | - | - | - |
| 4 | 6 | ±25% | ±30% | ±35% | ±45% | ±38% | ±38% | ±45% | ±50% | - | - | - |
| 6 | 10 | ±20% | ±25% | ±30% | ±35% | ±30% | ±30% | ±35% | ±40% | - | ±40% | ±45% |
| 10 | 25 | ±15% | ±20% | ±25% | ±30% | ±25% | ±25% | ±30% | ±35% | - | ±35% | ±40% |
| 25 | 63 | ±10% | ±15% | ±20% | ±25% | ±20% | ±20% | ±25% | ±30% | - | ±30% | ±35% |
| 63 | 100 | - | - | ±15% | ±20% | - | - | ±20% | ±25% | - | ±25% | ±30% |

注：细长比是以丝杠轴的螺纹部长度（mm）除丝杠轴外径所得的值谓之。
Remarks : 1. Slenderness is the value of dividing the screws shaft outside diameter with the screws shaft threading length.



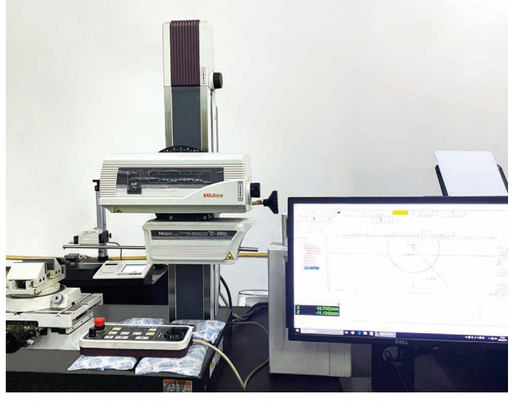




# 检测仪器 Testing Equipment

欧必帝拥有完善的质量控制管理体系和先进的检测仪器。
OBD has a comprehensive quality control management system and advanced testing instruments.

## 轮廓仪 Profilometer



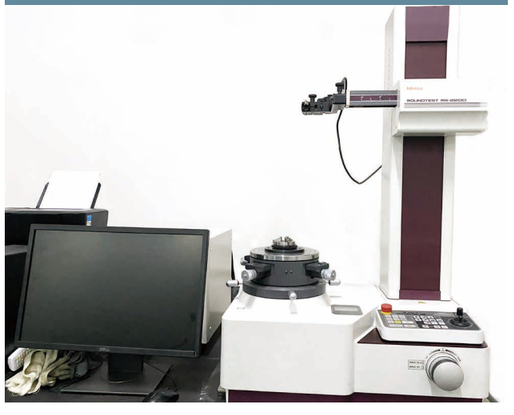
对滚珠丝杆 / 螺母的轮廓、二维尺寸、二维位移，接触角度，进行测试与检验。
Test and inspect the contour, two-dimensional dimensions, two-dimensional displacement, and contact angle of the ball screw nut.

## 硬度检测仪 Hardness Tester



用于测量滚珠丝杆材料的表面硬度和芯部硬度。
Used to measure the surface hardness and core hardness of ball screw materials.

## 圆度仪 Roundness Measuring Instrument



用于测量螺母的圆度、圆柱度、同轴度、同心度、平面度、平行度、垂直度、径向偏差、厚度偏差、径向跳动、径向全跳动、直径测量、直线度、倾斜度、锥度、直径轮廓公差、直线轮廓公差等。
Used to measure the roundness, cylindricity, coaxiality, concentricity, flatness, parallelism, verticality, radial deviation, thickness deviation, radial runout, radial total runout, diameter measurement, straightness, inclination, taper, diameter contour tolerance, straight contour tolerance, etc. of nuts.

## 粗糙度测量仪 Roughness Measuring Instrument



可对多种机械加工零件表面的粗糙度进行测量，包括平面、斜面、外圆柱面，曲面，小孔，沟槽及车轴等。
The roughness measuring instrument can measure the surface roughness of various machined parts, including flat surfaces, inclined surfaces, cylindrical surfaces, curved surfaces, small holes, grooves, and axles.

# 研磨 / 转造级滚珠丝杠 Grinding / Rolled Ball Screw

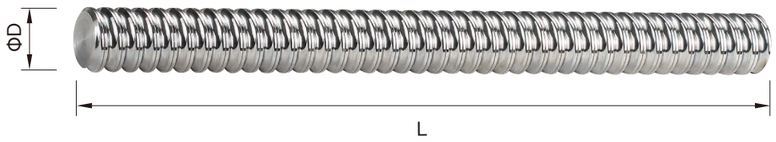



表 Table 2.1.1 精密研磨 / 转造级丝杠标准尺寸规格对照表 Φ6~32 Grind / Rolled Ball Screw Specification Φ6~32

| 型号 Model No. | | | 导程精度等级 Accuracy Grade | 螺纹方向 Threading Direction | 牙口数 Number of Grooves | 标准型丝杠编号 Standard Code of Shaft | 适用螺帽型式 Type of Nut | 丝杠最长长度 Max Length of Shaft | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|
| 外径 d | 导程 l | 珠径 Da | | R : 右 L : 左 | | | | mm | Kg/m |
| 4 | 1 | 0.8 | C10, C7, C5 | R | 1 | SCR0401 | K | 1000 | 0.10 |
| 6 | 1 | 0.8 | C10, C7, C5 | R | 1 | SCR0601 | K | 1000 | 0.22 |
| 8 | 1 | 0.8 | C10, C7, C5 | R | 1 | SCR0801 | K | 1000 | 0.39 |
| | 2 | 1.2 | C10, C7, C5 | R | 1 | SCR0802 | K | | 0.39 |
| | 2.5 | 1.2 | C10, C7, C5 | R | 1 | SCR082.5 | K, BSH | | 0.39 |
| 10 | 2 | 1.2 | C10, C7, C5 | R | 1 | SCR1002 | K, BSH | 3000 | 0.61 |
| | 4 | 2 | C10, C7, C5 | R | 1 | SCR1004 | K, BSH | | 0.61 |
| 12 | 2 | 1.2 | C10, C7, C5 | R | 1 | SCR1202 | K | 3000 | 0.88 |
| | 4 | 2.38 | C10, C7, C5 | R/L | 1 | SCR1204 | U, BSH | | 0.87 |
| | 5 | 2.5 | C10, C7, C5 | R | 1 | SCR1205A | V, U, BSH, H, A, S | | 0.87 |
| 14 | 2 | 1.2 | C10, C7, C5 | R | 1 | SCR1402 | K | 1800 | 1.21 |
| | 4 | 2.5 | C10, C7, C5 | R | 1 | SCR1404 | BSH | 3000 | 1.2 |
| 16 | 4 | 2.381 | C10, C7, C5 | R | 1 | SCR1604(N) | V, I, U, BSH | 4000 | 1.57 |
| | 5 | 3.175 | C10, C7, C5 | R/L | 1 | SCR1605 | V, NI, NU, BSH | | 1.56 |
| | 10 | 3.175 | C10, C7, C5 | R/L | 2 | SCR1610 | V, NI, NU, BSH | | 1.56 |
| | 16 | 2.778 | C10, C7, C5 | R | 4 | SCR1616 | Y | | 1.55 |
| | 32 | 2.778 | C10, C7, C5 | R | 8 | SCR1632 | Y | | 1.55 |
| 20 | 4 | 2.381 | C10, C7, C5 | R | 1 | SCR2004(N) | V, I, U | 4000 | 2.45 |
| | 5 | 3.175 | C10, C7, C5 | R/L | 1 | SCR2005 | V, NI, NU, BSH, H, A, S | | 2.45 |
| | 20 | 3.175 | C10, C7, C5 | R | 4 | SCR2020 | V, Y, H, A, S | | 2.42 |
| | 40 | 3.175 | C10, C7, C5 | R | 8 | SCR2040 | Y | | 2.42 |
| 25 | 4 | 2.381 | C10, C7, C5 | R | 1 | SCR2504(N) | I, U | 6000 | 3.84 |
| | 5 | 3.175 | C10, C7, C5 | R/L | 1 | SCR2505 | V, NI, NU, BSH, H, A, S | | 3.83 |
| | 10 | 4.762 | C10, C7, C5 | R/L | 1 | SCR2510-A | NI, NU, BSH | | 3.81 |
| | 25 | 3.969 | C10, C7, C5 | R | 4 | SCR2525 | Y | | 3.79 |
| | 50 | 3.969 | C10, C7, C5 | R | 8 | SCR2550 | Y | | 3.79 |
| 32 | 4 | 2.381 | C10, C7, C5 | R | 1 | SCR3204(N) | V, I, U | 6000 | 6.3 |
| | 5 | 3.175 | C10, C7, C5 | R/L | 1 | SCR3205 | V, NI, NU, M, H, A, S | | 6.29 |
| | 10 | 6.35 | C10, C7, C5 | R/L | 1 | SCR3210 | V, NI, NU | | 6.23 |
| | 32 | 4.762 | C10, C7, C5 | R | 4 | SCR3232 | Y | | 6.22 |
| | 64 | 4.762 | C10, C7, C5 | R | 8 | SCR3264 | Y | | 6.22 |



滚珠丝杠副

# 研磨 / 转造级滚珠丝杠 Grinding / Rolled Ball Screw

表 Table 2.1.2 标准型尺寸规格对照表 Φ40~80 Standard Specifications Φ40~80 单位 Unit : mm

| 型号 Model No. | | | 导程精度等级 Accuracy Grade | 螺纹方向 Threading Direction | 牙口数 Number of Grooves | 标准型丝杠编号 Standard Code of Shaft | 适用螺帽型式 Type of Nut | 丝杠最长长度 Max Length of Shaft | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|
| 外径 d | 导程 l | 珠径 Da | | R : 右 L : 左 | | | | mm | Kg/m |
| 40 | 5 | 3.175 | C10, C7, C5 | R/L | 1 | SCR4005 | V, NI, NU, H, A, S | 6000 | 9.84 |
| | 10 | 6.350 | C10, C7, C5 | R/L | 1 | SCR4010 | V, NI, NU | | 9.78 |
| | 20 | 6.350 | C10, C7, C5 | R | 2 | SCR4020 | V | | 9.78 |
| | 40 | 6.350 | C10, C7, C5 | R | 4 | SCR4040 | Y | | 9.7 |
| | 80 | 6.350 | C10, C7, C5 | R | 8 | SCR4080 | Y | | 9.7 |
| 50 | 5 | 3.175 | C10, C7, C5 | R | 1 | SCR5005 | V, H, A, S | 6000 | 15.39 |
| | 10 | 6.350 | C10, C7, C5 | R/L | 1 | SCR5010 | V, NI, NU | | 15.33 |
| | 20 | 9.525 | C10, C7, C5 | R | 1 | SCR5020 | V | | 15.23 |
| | 50 | 7.938 | C10, C7, C5 | R | 4 | SCR5050 | Y | | 15.15 |
| | 100 | 7.938 | C10, C7, C5 | R | 8 | SCR50100 | Y | | 15.15 |
| 63 | 10 | 6.350 | C10, C7, C5 | R | 1 | SCR6310 | V, NI, NU | 7000 | 24.39 |
| | 20 | 9.525 | C10, C7, C5 | R | 1 | SCR6320 | V, NU | | 24.28 |
| 80 | 10 | 6.350 | C10, C7, C5 | R | 1 | SCR8010 | V, NI, NU | 7000 | 39.28 |
| | 20 | 9.525 | C10, C7, C5 | R | 1 | SCR8020 | V, NU | | 39.27 |

表 Table 2.1.3 S/A 型尺寸规格对照表 Φ16~50 S/A-type Specifications Φ16~50 单位 Unit : mm

| 型号 Model No. | | | 导程精度等级 Accuracy Grade | 螺纹方向 Threading Direction | 牙口数 Number of Grooves | 标准型丝杠编号 Standard Code of Shaft | 适用螺帽型式 Type of Nut | 丝杠最长长度 Max Length of Shaft | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|
| 外径 d | 导程 l | 珠径 Da | | R : 右 L : 左 | | | | mm | Kg/m |
| 12 | 10 | 2.5 | C10, C7, C5 | R | 2 | SSR1210 | H, A, S | 3000 | 0.87 |
| 15 | 5 | 2.778 | C10, C7, C5 | R | 1 | SSR1605 | H, A, S | 4000 | 1.37 |
| | 10 | 2.778 | C10, C7, C5 | R | 2 | SSR1610 | H, A, S | | 1.37 |
| | 16 | 2.778 | C10, C7, C5 | R | 4 | SSR1616 | H, A, S | | 1.37 |
| | 20 | 2.778 | C10, C7, C5 | R | 4 | SSR1620 | H, A, S | | 1.37 |
| 20 | 10 | 3.175 | C10, C7, C5 | R | 2 | SSR2010 | H, A, S | 4000 | 2.45 |
| 25 | 10 | 3.175 | C10, C7, C5 | R | 2 | SSR2510 | H, A, S | 6000 | 3.83 |
| | 25 | 3.175 | C10, C7, C5 | R | 4 | SSR2525 | H, A, S | | 3.83 |
| 31 | 10 | 3.969 | C10, C7, C5 | R | 1 | SSR3210 | H, A, S | 6000 | 5.89 |
| | 20 | 3.969 | C10, C7, C5 | R | 2 | SSR3220 | H, A, S | | 5.89 |
| | 32 | 3.969 | C10, C7, C5 | R | 4 | SSR3232 | H, A, S | | 5.89 |
| 38 | 10 | 6.35 | C10, C7, C5 | R | 1 | SSR4010 | H, A, S | 6000 | 8.82 |
| | 20 | 6.35 | C10, C7, C5 | R | 2 | SSR4020 | H, A, S | | 8.82 |
| | 40 | 6.35 | C10, C7, C5 | R | 4 | SSR4040 | H, A, S | | 8.82 |
| 48 | 10 | 6.35 | C10, C7, C5 | R | 1 | SSR5010 | H, A, S | 6000 | 14.12 |
| | 20 | 6.35 | C10, C7, C5 | R | 2 | SSR5020 | H, A, S | | 14.12 |
| | 50 | 6.35 | C10, C7, C5 | R | 4 | SSR5050 | H, A, S | | 14.12 |

# 滚珠丝杠副装配说明 Ball Screw Assembly

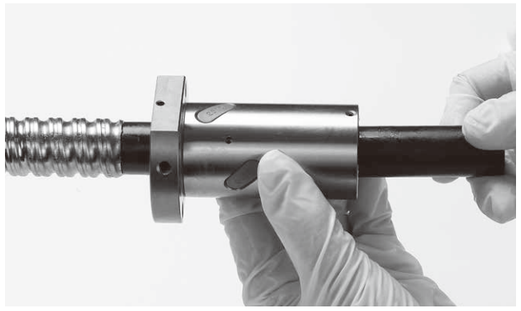
## 装配说明 Assembling the Ball Screws

若您订购之产品为转造级单出螺母，请依下列步骤进行装配：

If rolled ball nut is shipped un-assembled please follow the procedure as below.



1. 将螺母上的固定线剪开。
   Remove the band.



2. 将转换管对上正确尺寸的丝杠前端。
   Attached the mandrel towards machine ends.



3. 将螺母顺着丝杠的螺纹转入。
   Rotate the ball nut into the screw along the thread.



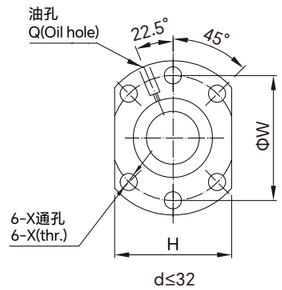
4. 将螺母全行程都转入丝杠上。
   注意！确认螺母全部行程都转入丝杠后才能将转换管移开。
   Ensure that the ball nut is fully inserted before remove the mandrel.



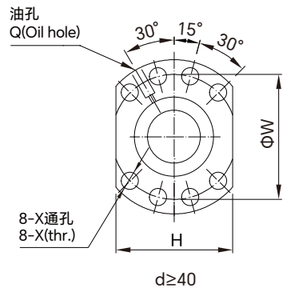


# 双螺母 DFU 系列 Double Nut DFU Series

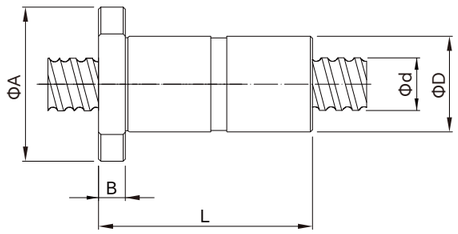





d≤32




d≥40



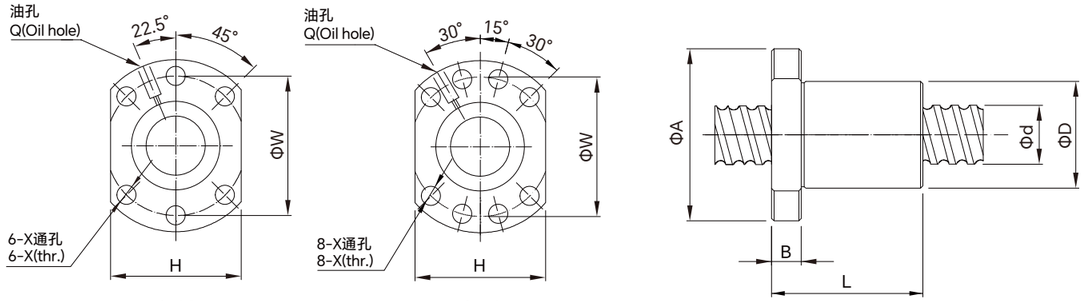

单位 Unit : mm

| 型号 Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | A | B | L | W | H | X | Q | n | Ca(kgf) | Coa(kgf) | Kgf/μm | Kg |
| DFU1604-4 | 16 | 4 | 2.381 | 28 | 48 | 10 | 80 | 38 | 40 | 5.5 | M6 | 1x4 | 973 | 2406 | 43 | 0.308 |
| DFU1605-4 ☆ | | 5 | 3.175 | 28 | 48 | 10 | 100 | 38 | 40 | 5.5 | M6 | 1x4 | 1380 | 3052 | 44 | 0.27 |
| DFU1610-3 ☆ | | 10 | 3.175 | 28 | 48 | 10 | 118 | 38 | 40 | 5.5 | M6 | 1x3 | 1103 | 2401 | 35 | 0.33 |
| DFU2004-4 | 20 | 4 | 2.381 | 36 | 58 | 10 | 80 | 47 | 44 | 6.6 | M6 | 1x4 | 1066 | 2987 | 51 | 0.48 |
| DFU2005-4 | | 5 | 3.175 | 36 | 58 | 10 | 101 | 47 | 44 | 6.6 | M6 | 1x4 | 1551 | 3875 | 53 | 0.512 |
| DFU2504-4 | 25 | 4 | 2.381 | 40 | 62 | 10 | 80 | 51 | 48 | 6.6 | M6 | 1x4 | 1180 | 3795 | 60 | 0.548 |
| DFU2505-4 | | 5 | 3.175 | 40 | 62 | 10 | 101 | 51 | 48 | 6.6 | M6 | 1x4 | 1724 | 4904 | 62 | 0.532 |
| DFU2510-4 ☆ | | 10 | 4.762 | 40 | 62 | 12 | 145 | 51 | 48 | 6.6 | M6 | 1×4 | 2954 | 7295 | 67 | 0.808 |
| DFU3204-4 | 32 | 4 | 2.381 | 50 | 80 | 12 | 80 | 65 | 62 | 9 | M6 | 1x4 | 1296 | 4838 | 71 | 0.956 |
| DFU3205-4 | | 5 | 3.175 | 50 | 80 | 12 | 102 | 65 | 62 | 9 | M6 | 1x4 | 1922 | 6343 | 74 | 0.946 |
| DFU3210-4 ☆ | | 10 | 6.35 | 50 | 80 | 12 | 162 | 65 | 62 | 9 | M6 | 1x4 | 4805 | 12208 | 82 | 1.278 |
| DFU4005-4 ☆ | 40 | 5 | 3.175 | 63 | 93 | 14 | 105 | 78 | 70 | 9 | M8 | 1x4 | 2110 | 7988 | 87 | 1.486 |
| DFU4010-4 | | 10 | 6.35 | 63 | 93 | 14 | 165 | 78 | 70 | 9 | M8 | 1x4 | 5399 | 15500 | 99 | 2.18 |
| DFU5010-4 ☆ | 50 | 10 | 6.35 | 75 | 110 | 16 | 171 | 93 | 85 | 11 | M8 | 1x4 | 6004 | 19614 | 117 | 3.052 |
| DFU5020-4 ☆ | | 20 | 7.144 | 75 | 110 | 16 | 280 | 93 | 85 | 11 | M8 | 1x4 | 7142 | 22588 | 126 | 4.200 |
| DFU6310-4 ☆ | 63 | 10 | 6.35 | 90 | 125 | 18 | 182 | 108 | 95 | 11 | M8 | 1x4 | 6719 | 25358 | 139 | 4.175 |
| DFU6320-4 | | 20 | 9.525 | 95 | 135 | 20 | 290 | 115 | 100 | 13.5 | M8 | 1x4 | 11444 | 36653 | 152 | 8.362 |
| DFU8010-4 | 80 | 10 | 6.35 | 105 | 145 | 20 | 182 | 125 | 110 | 13.5 | M8 | 1x4 | 7346 | 31953 | 156 | 4.806 |
| DFU8020-4 | | 20 | 9.525 | 125 | 165 | 25 | 295 | 145 | 130 | 13.5 | M8 | 1x4 | 12911 | 47747 | 187 | 16.66 |
| DFU10020-4 | 100 | 20 | 9.525 | 150 | 202 | 30 | 340 | 170 | 155 | 17.5 | M8 | 1x4 | 14303 | 60698 | 222 | 26.4 |

注 : 有☆记号可制作左螺纹　Note: ☆ Left Helix Available

## 法兰型 SFU 系列 Flange Type SFU Series






单位 Unit : mm

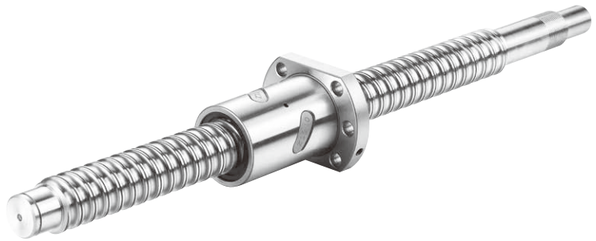
| 型号 Model No. | 直径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | A | B | L | W | H | X | Q | n | Ca(kgf) | Coa(kgf) | Kgf/um | Kg |
| SFU1204-3 ☆ | 12 | 4 | 2.381 | 22/24 | 42 | 8 | 35 | 32 | 30 | 4.5 | M5 | 1x3 | 902 | 1884 | 26 | 0.138 |
| SFU1604-4 | 16 | 4 | 2.381 | 28 | 48 | 10 | 40 | 38 | 40 | 5.5 | M6 | 1x4 | 973 | 2406 | 32 | 0.184 |
| SFU1605-3/4 ☆ | | 5 | 3.175 | 28 | 48 | 10 | 42/50 | 38 | 40 | 5.5 | M6 | 1x3/4 | 1380 | 3052 | 32 | 0.19 |
| SFU1610-2/3 ☆ | | 10 | 3.175 | 28 | 48 | 10 | 44/57 | 38 | 40 | 5.5 | M6 | 1x2/3 | 1103 | 2401 | 26 | 0.22 |
| SFU2004-4 | 20 | 4 | 2.381 | 36 | 58 | 10 | 42 | 47 | 44 | 6.6 | M6 | 1x4 | 1066 | 2987 | 38 | 0.294 |
| SFU2005-3/4 ☆ | | 5 | 3.175 | 36 | 58 | 10 | 44/51 | 47 | 44 | 6.6 | M6 | 1x3/4 | 1551 | 3875 | 38 | 0.316 |
| SFU2010-2/3 | | 10 | 3.175 | 36 | 58 | 10 | 44/60 | 47 | 44 | 6.6 | M6 | 1x4/3 | 1551 | 3875 | 38 | 0.32 |
| SFU2504-4 | 25 | 4 | 2.381 | 40 | 62 | 10 | 42 | 51 | 48 | 6.6 | M6 | 1x4 | 1180 | 3795 | 43 | 0.384 |
| SFU2505-3/4 ☆ | | 5 | 3.175 | 40 | 62 | 10 | 44/51 | 51 | 48 | 6.6 | M6 | 1x3/4 | 1724 | 4904 | 45 | 0.35 |
| SFU2510-3/4 ☆ | | 10 | 4.762 | 40 | 62 | 12 | 70/85 | 51 | 48 | 6.6 | M6 | 1x3/4 | 2954 | 7295 | 50 | 0.484 |
| SFU3204-4 | 32 | 4 | 2.381 | 50 | 80 | 12 | 44 | 65 | 62 | 9 | M6 | 1x4 | 1296 | 4838 | 51 | 0.658 |
| SFU3205-4 ☆ | | 5 | 3.175 | 50 | 80 | 12 | 52 | 65 | 62 | 9 | M6 | 1x4 | 1922 | 6343 | 54 | 0.588 |
| SFU3210-3/4 ☆ | | 10 | 6.35 | 50 | 80 | 12 | 74/90 | 65 | 62 | 9 | M6 | 1x3/4 | 4805 | 12208 | 61 | 0.832 |
| SFU4005-3/4 | 40 | 5 | 3.175 | 63 | 93 | 14 | 45/55 | 78 | 70 | 9 | M8 | 1x4 | 2110 | 7988 | 63 | 0.97 |
| SFU4010-3/4 ☆ | | 10 | 6.35 | 63 | 93 | 14 | 74/93 | 78 | 70 | 9 | M8 | 1x3/4 | 5399 | 15500 | 73 | 1.246 |
| SFU5005-4 | 50 | 5 | 3.175 | 75 | 110 | 16 | 55 | 93 | 85 | 11 | M6 | 1x4 | 6004 | 19614 | 85 | 1.82 |
| SFU5010-4 ☆ | | 10 | 6.35 | 75 | 110 | 16 | 93 | 93 | 85 | 11 | M8 | 1x4 | 6004 | 19614 | 85 | 1.82 |
| SFU05020-4 ☆ | | 20 | 7.144 | 75 | 110 | 16 | 138 | 93 | 85 | 11 | M8 | 1x4 | 7142 | 22588 | 94 | 2.674 |
| SFU6310-4 ☆ | 63 | 10 | 6.35 | 90 | 125 | 18 | 98 | 108 | 95 | 11 | M8 | 1x4 | 6719 | 25358 | 99 | 2.576 |
| SFU6320-4 | | 20 | 9.525 | 95 | 135 | 20 | 149 | 115 | 100 | 13.5 | M8 | 1x4 | 11444 | 36653 | 112 | 4.888 |
| SFU8010-4 ☆ | 80 | 10 | 6.35 | 105 | 145 | 20 | 98 | 125 | 110 | 13.5 | M8 | 1x4 | 7346 | 31953 | 109 | 9.016 |
| SFU8020-4 | | 20 | 9.525 | 125 | 165 | 25 | 154 | 145 | 130 | 13.5 | M8 | 1x4 | 12911 | 47747 | 138 | 9.016 |
| SFU10020-4 | 100 | 20 | 9.525 | 150 | 202 | 30 | 180 | 170 | 155 | 17.5 | M8 | 1x4 | 14303 | 60698 | 162 | 10 |

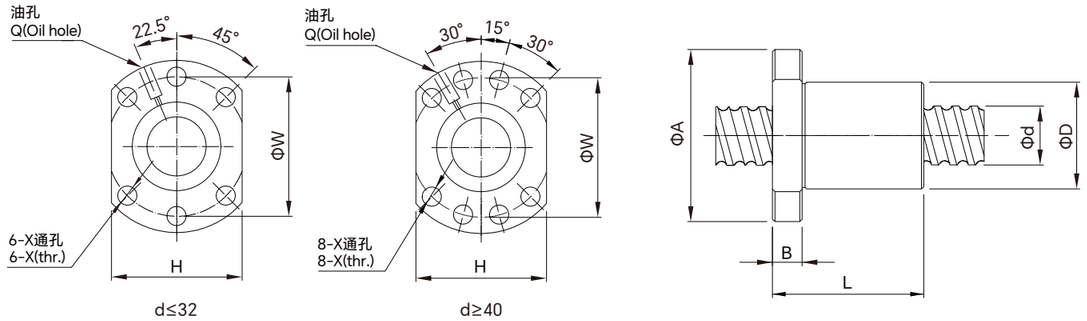
注 : 有☆记号可制作左螺纹 Note: ☆ Left Helix Available





## 强防尘 SFNU 系列 Strong Dust-proof SFNU Series





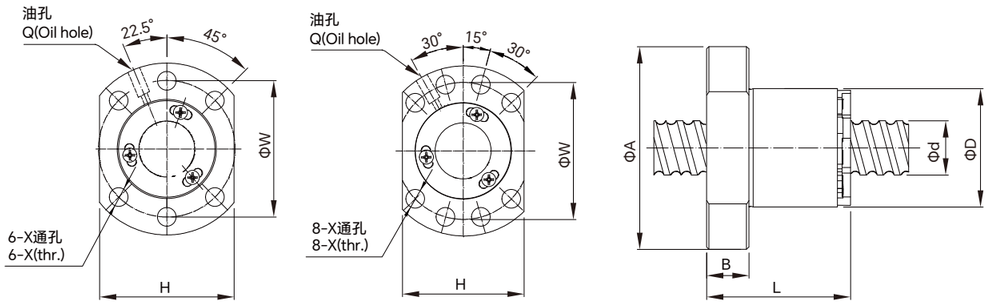

单位 Unit : mm

| 型号 Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | A | B | L | W | H | X | Q | n | Ca(kgf) | Coa(kgf) | Kgf/μm | Kg |
| SFNU1204-4 ☆ | 12 | 4 | 2.381 | 24 | 40 | 10 | 40 | 32 | 30 | 4.5 | M6 | 1x4 | 902 | 1884 | 26 | 0.138 |
| SFNU1605-4 ☆ | 16 | 5 | 3.175 | 28 | 48 | 10 | 45 | 38 | 40 | 5.5 | M6 | 1x4 | 1380 | 3052 | 32 | 0.19 |
| SFNU1610-3 ☆ | | 10 | 3.175 | 28 | 48 | 10 | 57 | 38 | 40 | 5.5 | M6 | 1x3 | 1103 | 2401 | 26 | 0.22 |
| SFNU2005-4 ☆ | 20 | 5 | 3.175 | 36 | 58 | 10 | 51 | 47 | 44 | 6.6 | M6 | 1x4 | 1551 | 3875 | 39 | 0.316 |
| SFNU2505-4 ☆ | 25 | 5 | 3.175 | 40 | 62 | 10 | 51 | 51 | 48 | 6.6 | M6 | 1x4 | 1724 | 4904 | 45 | 0.35 |
| SFNU2510-4 ☆ | | 10 | 4.762 | 40 | 62 | 12 | 80 | 51 | 48 | 6.6 | M6 | 1x4 | 2954 | 7295 | 50 | 0.484 |
| SFNU3205-4 ☆ | 32 | 5 | 3.175 | 50 | 80 | 12 | 52 | 65 | 62 | 9 | M6 | 1x4 | 1922 | 6343 | 54 | 0.588 |
| SFNU3210-4 ☆ | | 10 | 6.350 | 50 | 80 | 12 | 85 | 65 | 62 | 9 | M6 | 1x4 | 4805 | 12208 | 61 | 0.832 |
| SFNU4005-4 ☆ | 40 | 5 | 3.175 | 63 | 93 | 14 | 55 | 78 | 70 | 9 | M8 | 1x4 | 2110 | 7988 | 63 | 0.97 |
| SFNU4010-4 ☆ | | 10 | 6.350 | 63 | 93 | 14 | 88 | 78 | 70 | 9 | M8 | 1x4 | 5399 | 15500 | 73 | 1.246 |
| SFNU5010-4 ☆ | 50 | 10 | 6.350 | 75 | 110 | 16 | 88 | 93 | 85 | 11 | M8 | 1x4 | 6004 | 19614 | 85 | 1.82 |
| SFNU6310-4 ☆ | 63 | 10 | 6.350 | 90 | 125 | 18 | 93 | 108 | 95 | 11 | M8 | 1x4 | 6719 | 25358 | 99 | 2.576 |
| SFNU8010-4 | 80 | 10 | 6.350 | 105 | 145 | 20 | 93 | 125 | 110 | 13.5 | M8 | 1x4 | 7346 | 31953 | 109 | 3.1 |

注 : 有☆记号可制作左螺纹 Note: ☆ Left Helix Available

## 高速低噪音 SFS 系列 High Speed Low Noise SFS Series





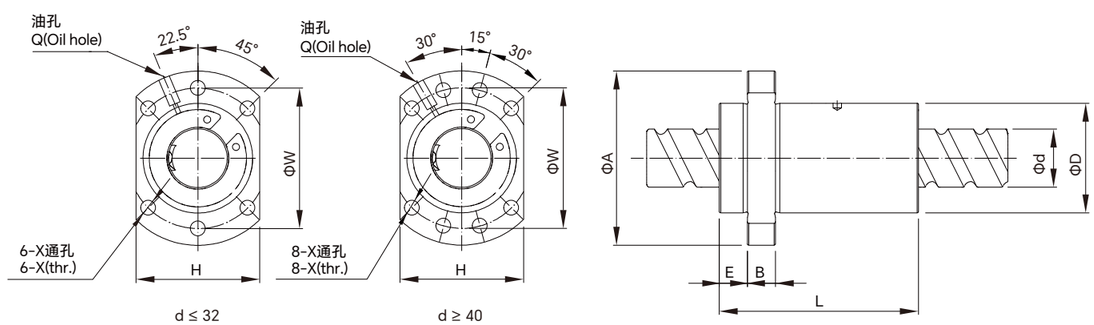

单位 Unit : mm

| 型号 Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | A | B | L | W | H | X | Q | n | Ca(kgf) | Coa(kgf) | Kgf/um | Kg |
| SFS1205-2.8 | 12 | 5 | 2.5 | 24 | 40 | 10 | 31 | 32 | 30 | 4.5 | M6 | 2.8x1 | 661 | 1316 | 19 | 0.11 |
| SFS1210-2.8 | | 10 | 2.5 | 24 | 40 | 10 | 48.5 | 32 | 30 | 4.5 | M6 | 2.8x1 | 642 | 1287 | 19 | 0.144 |
| SFS1605-3.8 | 15 | 5 | 2.778 | 28 | 48 | 10 | 38 | 38 | 40 | 5.5 | M6 | 3.8x1 | 1112 | 2507 | 30 | 0.184 |
| SFS1610-2.8 | | 10 | 2.778 | 28 | 48 | 10 | 47 | 38 | 40 | 5.5 | M6 | 2.8x1 | 839 | 1821 | 23 | 0.212 |
| SFS1616-1.8 | | 16 | 2.778 | 28 | 48 | 10 | 45 | 38 | 40 | 5.5 | M6 | 1.8x1 | 552 | 1137 | 14 | 0.208 |
| SFS1620-1.8 | | 20 | 2.778 | 28 | 48 | 10 | 57 | 38 | 40 | 5.5 | M6 | 1.8x1 | 554 | 1170 | 14 | 0.24 |
| SFS2005-3.8 | 20 | 5 | 3.175 | 36 | 58 | 10 | 40 | 47 | 44 | 6.6 | M6 | 3.8x1 | 1484 | 3681 | 37 | 0.246 |
| SFS2010-3.8 | | 10 | 3.175 | 36 | 58 | 10 | 60 | 47 | 44 | 6.6 | M6 | 3.8x1 | 1516 | 3833 | 40 | 0.336 |
| SFS2020-1.8 | | 20 | 3.175 | 36 | 58 | 10 | 57 | 47 | 44 | 6.6 | M6 | 1.8x1 | 764 | 1758 | 19 | 0.332 |
| SFS2505-3.8 | 25 | 5 | 3.175 | 40 | 62 | 10 | 40 | 51 | 48 | 6.6 | M6 | 3.8x1 | 1650 | 4658 | 43 | 0.27 |
| SFS2510-3.8 | | 10 | 3.175 | 40 | 62 | 12 | 62 | 51 | 48 | 6.6 | M6 | 3.8x1 | 1638 | 4633 | 45 | 0.384 |
| SFS2525-1.8 | | 25 | 3.175 | 40 | 62 | 12 | 70 | 51 | 48 | 6.6 | M6 | 1.8x1 | 843 | 2199 | 22 | 0.43 |
| SFS3205-3.8 | 32 | 5 | 3.175 | 50 | 80 | 12 | 42 | 65 | 62 | 9 | M6 | 3.8x1 | 1839 | 6026 | 51 | 0.65 |
| SFS3210-3.8 | 31 | 10 | 3.969 | 50 | 80 | 13 | 62 | 65 | 62 | 9 | M6 | 3.8x1 | 2460 | 7255 | 55 | 0.65 |
| SFS3220-2.8 | | 20 | 3.969 | 50 | 80 | 12 | 80 | 65 | 62 | 9 | M6 | 2.8x1 | 1907 | 5482 | 43 | 0.8 |
| SFS3232-1.8 | | 32 | 3.969 | 50 | 80 | 13 | 84 | 65 | 62 | 9 | M6 | 1.8x1 | 1257 | 3426 | 27 | 0.84 |
| SFS4005-3.8 | 40 | 5 | 3.175 | 63 | 93 | 15 | 45 | 78 | 70 | 9 | M8 | 3.8x1 | 2018 | 7589 | 60 | 0.808 |
| SFS4010-3.8 | 38 | 10 | 6.35 | 63 | 93 | 14 | 63 | 78 | 70 | 9 | M8 | 3.8x1 | 5035 | 13943 | 67 | 1.026 |
| SFS4020-2.8 | | 20 | 6.35 | 63 | 93 | 14 | 82 | 78 | 70 | 9 | M8 | 2.8x1 | 3959 | 10715 | 54 | 1.282 |
| SFS4040-1.8 | | 40 | 6.35 | 63 | 93 | 15 | 105 | 78 | 70 | 9 | M8 | 1.8x1 | 2585 | 6648 | 34 | 1.518 |
| SFS5005-3.8 | 50 | 5 | 3.175 | 75 | 110 | 15 | 45 | 93 | 85 | 11 | M8 | 3.8x1 | 2207 | 9542 | 68 | 1.098 |
| SFS5010-3.8 | 48 | 10 | 6.35 | 75 | 110 | 18 | 68 | 93 | 85 | 11 | M8 | 3.8x1 | 5638 | 17852 | 79 | 1.458 |
| SFS5020-3.8 | | 20 | 6.35 | 75 | 110 | 18 | 108 | 93 | 85 | 11 | M8 | 3.8x1 | 5749 | 18485 | 87 | 2.172 |
| SFS5050-1.8 | | 50 | 6.35 | 75 | 110 | 18 | 125 | 93 | 85 | 11 | M8 | 1.8x1 | 2946 | 8749 | 42 | 2.486 |



## 强防尘低噪音 SFA 系列 Strong Dust-proof Low Noise SFA Series



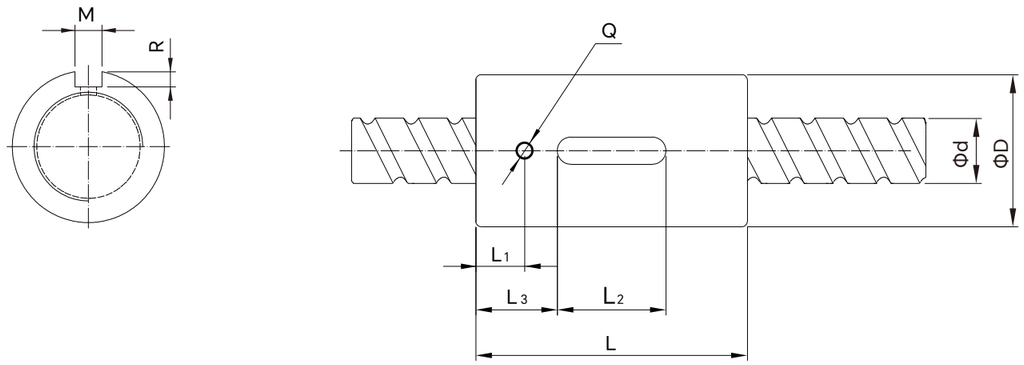



单位 Unit : mm

| 型号 Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | A | E | B | L | W | H | X | Q | n | Ca(kgf) | Coa(kgf) | Kgf/um | Kg |
| SFA1205-2.8 | 12 | 5 | 2.5 | 24 | 40 | 5 | 10 | 30 | 32 | 30 | 4.5 | M6 | 2.8×1 | 661 | 1316 | 19 | 0.112 |
| SFA1210-2.8 | | 10 | 2.5 | 24 | 40 | 5 | 10 | 42 | 32 | 30 | 4.5 | M6 | 2.8×1 | 642 | 1287 | 19 | 0.13 |
| SFA1605-3.8 | 15 | 5 | 2.778 | 28 | 48 | 5 | 10 | 31 | 38 | 40 | 5.5 | M6 | 3.8×1 | 1112 | 2507 | 30 | 0.168 |
| SFA1610-2.8 | | 10 | 2.778 | 28 | 48 | 5 | 10 | 42 | 38 | 40 | 5.5 | M6 | 2.8×1 | 839 | 1821 | 23 | 0.198 |
| SFA1616-1.8 | | 16 | 2.778 | 28 | 48 | 5 | 10 | 43 | 38 | 40 | 5.5 | M6 | 1.8×1 | 552 | 1137 | 14 | 0.202 |
| SFA1620-1.8 | | 20 | 2.778 | 28 | 48 | 5 | 10 | 50 | 38 | 40 | 5.5 | M6 | 1.8×1 | 554 | 1170 | 14 | 0.222 |
| SFA2005-3.8 | 20 | 5 | 3.175 | 36 | 58 | 7 | 10 | 33 | 47 | 44 | 6.6 | M6 | 3.8×1 | 1484 | 3681 | 37 | 0.245 |
| SFA2010-3.8 | | 10 | 3.175 | 36 | 58 | 7 | 10 | 52 | 47 | 44 | 6.6 | M6 | 3.8×1 | 1516 | 3833 | 40 | 0.33 |
| SFA2020-1.8 | | 20 | 3.175 | 36 | 58 | 7 | 10 | 52 | 47 | 44 | 6.6 | M6 | 1.8×1 | 764 | 1758 | 19 | 0.332 |
| SFA2505-3.8 | 25 | 5 | 3.175 | 40 | 62 | 7 | 10 | 33 | 51 | 48 | 6.6 | M6 | 3.8×1 | 1650 | 4658 | 43 | 0.272 |
| SFA2510-3.8 | | 10 | 3.175 | 40 | 62 | 7 | 12 | 52 | 51 | 48 | 6.6 | M6 | 3.8×1 | 1638 | 4633 | 45 | 0.35 |
| SFA2525-1.8 | | 25 | 3.175 | 40 | 62 | 7 | 12 | 60 | 51 | 48 | 6.6 | M6 | 1.8×1 | 843 | 2199 | 22 | 0.415 |
| SFA3205-3.8 | 32 | 5 | 3.175 | 50 | 80 | 9 | 12 | 35 | 65 | 62 | 9 | M6 | 3.8×1 | 1839 | 6026 | 51 | 0.462 |
| SFA3210-3.8 | 31 | 10 | 3.969 | 50 | 80 | 9 | 12 | 53 | 65 | 62 | 9 | M6 | 3.8×1 | 2460 | 7255 | 55 | 0.58 |
| SFA3220-2.8 | | 20 | 3.969 | 50 | 80 | 9 | 12 | 72 | 65 | 62 | 9 | M6 | 2.8×1 | 1907 | 5482 | 43 | 0.742 |
| SFA3232-1.8 | | 32 | 3.969 | 50 | 80 | 9 | 12 | 78 | 65 | 62 | 9 | M6 | 1.8×1 | 1257 | 3426 | 27 | 0.79 |
| SFA4005-3.8 | 40 | 5 | 3.175 | 63 | 93 | 9 | 14 | 39 | 78 | 70 | 9 | M8 | 3.8×1 | 2018 | 7589 | 60 | 0.808 |
| SFA4010-3.8 | 38 | 10 | 6.35 | 63 | 93 | 9 | 14 | 57 | 78 | 70 | 9 | M8 | 3.8×1 | 5035 | 13943 | 67 | 0.87 |
| SFA4020-2.8 | | 20 | 6.35 | 63 | 93 | 9 | 14 | 78 | 78 | 70 | 9 | M8 | 2.8×1 | 3959 | 10715 | 54 | 1.15 |
| SFA4040-1.8 | | 40 | 6.35 | 63 | 93 | 9 | 14 | 96 | 78 | 70 | 9 | M8 | 1.8×1 | 2585 | 6648 | 34 | 1.525 |
| SFA5005-3.8 | 50 | 5 | 3.175 | 75 | 110 | 10.5 | 15 | 42 | 93 | 85 | 11 | M8 | 3.8×1 | 2207 | 9542 | 68 | 0.944 |
| SFA5010-3.8 | 48 | 10 | 6.35 | 75 | 110 | 10.5 | 18 | 57 | 93 | 85 | 11 | M8 | 3.8×1 | 5638 | 17852 | 79 | 1.28 |
| SFA5020-3.8 | | 20 | 6.35 | 75 | 110 | 10.5 | 18 | 98 | 93 | 85 | 11 | M8 | 3.8×1 | 5749 | 18485 | 87 | 2.05 |
| SFA5050-1.8 | | 50 | 6.35 | 75 | 110 | 10.5 | 18 | 117 | 93 | 85 | 11 | M8 | 1.8×1 | 2946 | 8749 | 42 | 2.4 |

## 直筒型 SCA 系列 Straight Cylinder Type SCA Series





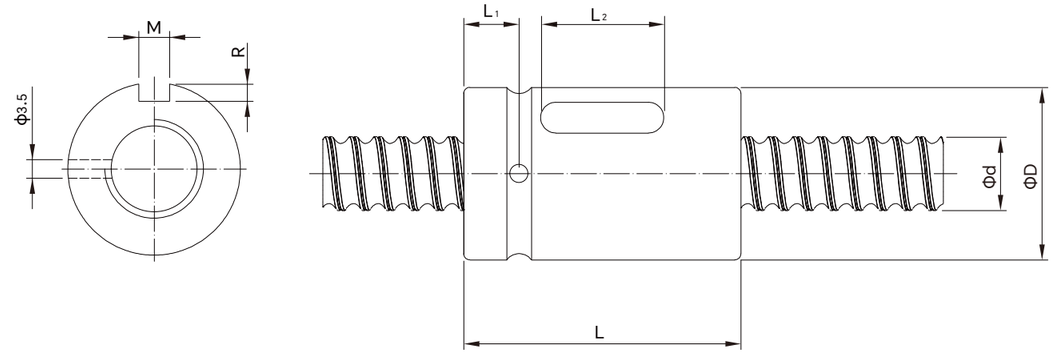

单位 Unit : mm

| 型号 Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | L | $L_1$ | $L_2$ | $L_3$ | M | R | Q | n | Ca(kgf) | Coa(kgf) | Kgf/um | Kg |
| SCA1205-4.8 | 12 | 5 | 2.5 | 24 | 40 | 7 | 12 | 14 | 3 | 1.5 | 3 | 4.8x1 | 1011 | 2105 | 34 | 0.092 |
| SCA1210-2.8 | | 10 | 2.5 | 24 | 45 | 8 | 15 | 15 | 3 | 1.5 | 3 | 2.8x1 | 642 | 1287 | 19 | 0.104 |
| SCA1210-1.8 | | 10 | 2.5 | 24 | 40 | 10.5 | 12 | 14 | 3 | 1.5 | 3 | 1.8x1 | 439 | 827 | 33 | 0.08 |
| SCA1605-5.8 | 15 | 5 | 2.778 | 28 | 45 | 7 | 20 | 12.5 | 5 | 3 | 3 | 5.8x1 | 1599 | 3827 | 49 | 0.144 |
| SCA1610-2.8 | | 10 | 2.778 | 28 | 45 | 7 | 20 | 12.5 | 5 | 3 | 3 | 2.8x1 | 839 | 1821 | 23 | 0.14 |
| SCA1616-1.8 | | 16 | 2.778 | 28 | 45 | 7 | 20 | 12.5 | 5 | 3 | 3 | 1.8x1 | 552 | 1137 | 18 | 0.136 |
| SCA1620-1.8 | | 20 | 2.778 | 28 | 58 | 10 | 20 | 19 | 5 | 3 | 3 | 1.8x1 | 554 | 1170 | 14 | 0.17 |
| SCA2005-5.8 | 20 | 5 | 3.175 | 36 | 47 | 8 | 20 | 13.5 | 5 | 3 | 3 | 5.8x1 | 2134 | 5619 | 60 | 0.214 |
| SCA2010-3.8 | | 10 | 3.175 | 36 | 55 | 8 | 20 | 17.5 | 5 | 3 | 3 | 3.8x1 | 1516 | 3833 | 40 | 0.254 |
| SCA2020-1.8 | | 20 | 3.175 | 36 | 55 | 8 | 20 | 17.5 | 5 | 3 | 3 | 1.8x1 | 764 | 1758 | 19 | 0.252 |



## 直筒强防尘型 SCNI/SCI 系列 Strong Dust-proof SCNI/SCI Series



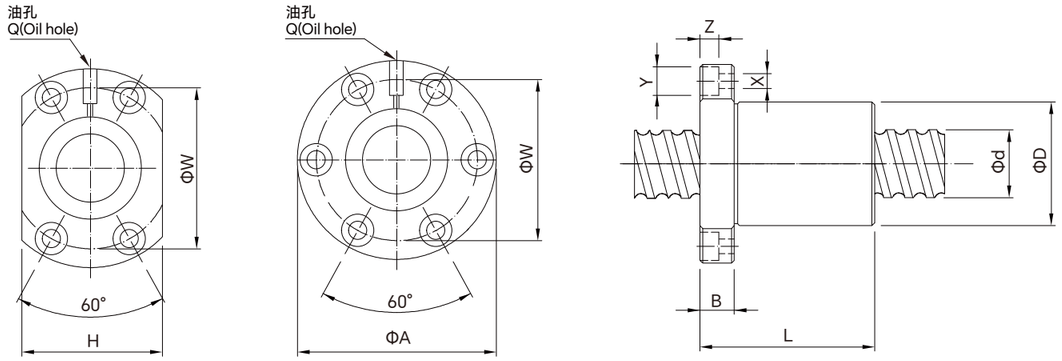



单位 Unit : mm

| 型号 Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | L | $L_1$ | $L_2$ | M | R | n | Ca(kgf) | Coa(kgf) | Kgf/um | Kg |
| SCNI1605-4 | 16 | 5 | 3.175 | 30 | 45 | 9 | 20 | 5 | 3 | 1x4 | 1380 | 3052 | 33 | 0.146 |
| SCNI2005-4 | 20 | 5 | 3.175 | 34 | 45 | 9 | 20 | 5 | 3 | 1x4 | 1551 | 3875 | 39 | 0.17 |
| SCNI2505-4 | 25 | 5 | 3.175 | 40 | 45 | 9 | 20 | 5 | 3 | 1x4 | 1724 | 4904 | 45 | 0.226 |
| SCNI2510-4 | | 10 | 4.762 | 46 | 85 | 13 | 30 | 5 | 3 | 1x4 | 2954 | 7295 | 51 | 0.664 |
| SCNI3205-4 | 32 | 5 | 3.175 | 46 | 45 | 9 | 20 | 5 | 3 | 1x4 | 1922 | 6343 | 52 | 0.252 |
| SCNI3210-4 | | 10 | 6.35 | 54 | 85 | 13 | 30 | 5 | 3 | 1x4 | 4805 | 12208 | 62 | 0.784 |
| SCNI4005-4 | 40 | 5 | 3.175 | 56 | 45 | 9 | 20 | 5 | 3 | 1x4 | 2110 | 7988 | 59 | 0.406 |
| SCNI4010-4 | | 10 | 6.35 | 62 | 85 | 13 | 30 | 5 | 3 | 1x4 | 5399 | 15500 | 72 | 0.932 |
| SCNI5010-4 | 50 | 10 | 6.35 | 72 | 85 | 13 | 30 | 5 | 3 | 1x4 | 6004 | 19614 | 83 | 1.21 |
| SCNI6310-4 | 63 | 10 | 6.35 | 85 | 85 | 13 | 30 | 6 | 3.5 | 1x4 | 6719 | 25358 | 95 | 1.52 |
| SCNI8010-4 | 80 | 10 | 6.35 | 105 | 85 | 13 | 30 | 8 | 4.5 | 1x4 | 7346 | 31953 | 109 | 2.292 |
| SCI1604-4 | 16 | 4 | 2.381 | 30 | 40 | 9 | 15 | 3 | 1.5 | 1x4 | 973 | 2406 | 32 | 0.14 |
| SCI2004-4 | 20 | 4 | 2.381 | 34 | 40 | 9 | 15 | 3 | 1.5 | 1x4 | 1066 | 2987 | 37 | 0.16 |
| SCI2504-4 | 25 | 4 | 2.381 | 40 | 40 | 9 | 15 | 3 | 1.5 | 1x4 | 1180 | 3795 | 43 | 0.22 |
| SCI3204-4 | 32 | 4 | 2.381 | 46 | 40 | 9 | 15 | 3 | 1.5 | 1x4 | 1296 | 4838 | 49 | 0.2 |

## 法兰型 SFI 系列 Flange Type SFI Series





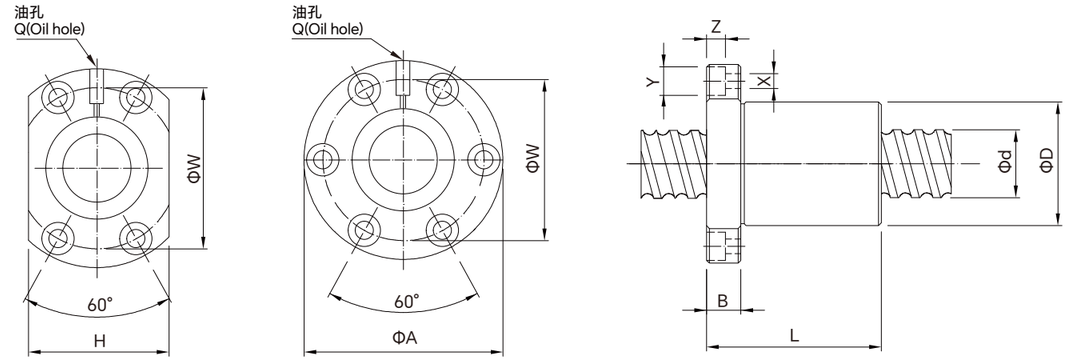

单位 Unit : mm

| 型号 Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | A | B | L | W | H | x | Y | Z | Q | n | | Ca(kgf) | Coa(kgf) | Kgf/um | Kg |
| SFI1604-4 | 16 | 4 | 2.381 | 30 | 49 | 10 | 45 | 39 | 34 | 4.5 | 8 | 4.5 | M6 | 1x4 | | 973 | 2406 | 32 | 0.246 |
| SFI1605-4 | | 5 | 3.175 | 30 | 49 | 10 | 50 | 39 | 34 | 4.5 | 8 | 4.5 | M6 | 1x4 | | 1380 | 3052 | 33 | 0.220 |
| SFI1610-3 | | 10 | 3.175 | 34 | 58 | 10 | 57 | 45 | 34 | 5.5 | 9.5 | 5.5 | M6 | 1x3 | | 1103 | 2401 | 27 | 0.382 |
| SFI2004-4 | 20 | 4 | 2.381 | 34 | 57 | 11 | 46 | 45 | 40 | 5.5 | 9.5 | 5.5 | M6 | 1x4 | | 1066 | 2987 | 37 | 0.312 |
| SFI2005-4 | | 5 | 3.175 | 34 | 57 | 11 | 51 | 45 | 40 | 5.5 | 9.5 | 5.5 | M6 | 1x4 | | 1551 | 3875 | 39 | 0.308 |
| SFI2504-4 | 25 | 4 | 2.381 | 40 | 63 | 11 | 46 | 51 | 46 | 5.5 | 9.5 | 5.5 | M6 | 1x4 | | 1180 | 3795 | 43 | 0.386 |
| SFI2505-4 | | 5 | 3.175 | 40 | 63 | 11 | 51 | 51 | 46 | 5.5 | 9.5 | 5.5 | M8 | 1x4 | | 1724 | 4904 | 45 | 0.396 |
| SFI2510-4 | | 10 | 4.762 | 46 | 72 | 12 | 85 | 58 | 52 | 6.5 | 11 | 6.5 | M6 | 1x4 | | 2954 | 7295 | 51 | 0.802 |
| SFI3204-4 | 32 | 4 | 2.381 | 46 | 72 | 12 | 47 | 58 | 52 | 6.5 | 11 | 6.5 | M6 | 1x4 | | 1296 | 4838 | 49 | 0.46 |
| SFI3205-4 | | 5 | 3.175 | 46 | 72 | 12 | 52 | 58 | 52 | 6.5 | 11 | 6.5 | M8 | 1x4 | | 1922 | 6343 | 52 | 0.472 |
| SFI3210-4 | | 10 | 6.35 | 54 | 88 | 15 | 90 | 70 | 62 | 9 | 14 | 8.5 | M8 | 1x4 | | 4805 | 12208 | 62 | 1.14 |
| SFI4005-4 | 40 | 5 | 3.175 | 56 | 90 | 15 | 55 | 72 | 64 | 9 | 14 | 8.5 | M8 | 1x4 | | 2110 | 7988 | 59 | 0.840 |
| SFI4010-4 | | 10 | 6.35 | 62 | 104 | 18 | 93 | 82 | 70 | 11 | 17.5 | 11 | M8 | 1x4 | | 5399 | 15500 | 72 | 1.548 |
| SFI5010-4 | 50 | 10 | 6.35 | 72 | 114 | 18 | 93 | 92 | 82 | 11 | 17.5 | 11 | M8 | 1x4 | | 6004 | 19614 | 83 | 1.924 |
| SFI6310-4 | 63 | 10 | 6.35 | 85 | 131 | 22 | 98 | 107 | 95 | 14 | 20 | 13 | M8 | 1x4 | | 6719 | 25358 | 95 | 2.674 |
| SFI8010 4 | 80 | 10 | 6.35 | 105 | 150 | 22 | 98 | 127 | 115 | 14 | 20 | 13 | M8 | 1x4 | | 7346 | 31953 | 109 | 3.90 |



## 强防尘 SFNI 系列 Strong Dust-proof SFNI Series





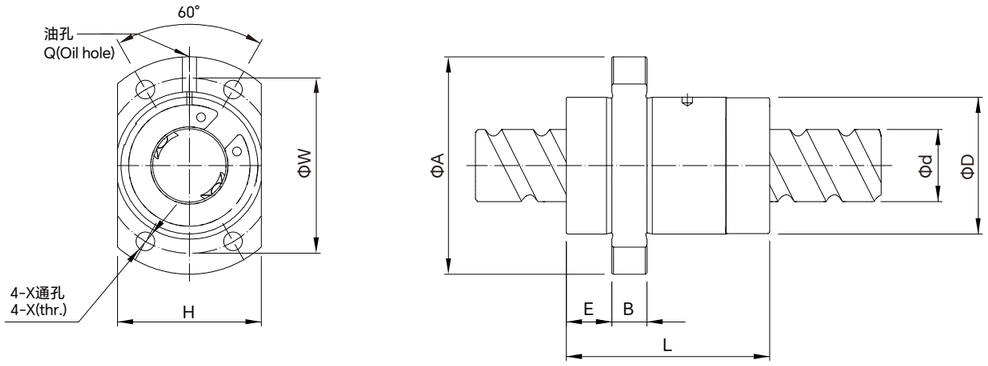

单位 Unit : mm

| 型号 Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | A | B | L | W | H | X | Y | Z | Q | n | | Ca(kgf) | Coa(kgf) | Kgf/um | Kg |
| SFNI1605-4 ☆ | 16 | 5 | 3.175 | 30 | 49 | 10 | 45 | 39 | 34 | 4.5 | 8 | 4.5 | M6 | 1x4 | | 1380 | 3052 | 33 | 0.22 |
| SFNI1610-3 ☆ | | 10 | 3.175 | 34 | 58 | 10 | 57 | 45 | 34 | 5.5 | 9.5 | 5.5 | M6 | 1x3 | | 1103 | 2401 | 27 | 0.382 |
| SFNI2005-4 ☆ | 20 | 5 | 3.175 | 34 | 57 | 11 | 51 | 45 | 40 | 5.5 | 9.5 | 5.5 | M6 | 1x4 | | 1551 | 3875 | 39 | 0.308 |
| SFNI2505-4 ☆ | 25 | 5 | 3.175 | 40 | 63 | 11 | 51 | 51 | 46 | 5.5 | 9.5 | 5.5 | M8 | 1x4 | | 1724 | 4904 | 45 | 0.396 |
| SFNI2510-4 ☆ | | 10 | 4.762 | 46 | 72 | 12 | 80 | 58 | 52 | 6.5 | 11 | 6.5 | M6 | 1x4 | | 2954 | 7295 | 51 | 0.802 |
| SFNI3205-4 ☆ | 32 | 5 | 3.175 | 46 | 72 | 12 | 52 | 58 | 52 | 6.5 | 11 | 6.5 | M8 | 1x4 | | 1922 | 6343 | 52 | 0.472 |
| SFNI3210-4 ☆ | | 10 | 6.35 | 54 | 88 | 15 | 85 | 70 | 62 | 9 | 14 | 8.5 | M8 | 1x4 | | 4805 | 12208 | 62 | 1.14 |
| SFNI4005-4 ☆ | 40 | 5 | 3.175 | 56 | 90 | 15 | 55 | 72 | 64 | 9 | 14 | 8.5 | M8 | 1x4 | | 2110 | 7988 | 59 | 0.84 |
| SFNI4010-4 ☆ | | 10 | 6.35 | 62 | 104 | 18 | 88 | 82 | 70 | 11 | 17.5 | 11 | M8 | 1x4 | | 5399 | 15500 | 72 | 1.548 |
| SFNI5010-4 ☆ | 50 | 10 | 6.35 | 72 | 114 | 18 | 88 | 92 | 82 | 11 | 17.5 | 11 | M8 | 1x4 | | 6004 | 19614 | 83 | 1.924 |
| SFNI6310-4 | 63 | 10 | 6.35 | 85 | 131 | 22 | 93 | 107 | 95 | 14 | 20 | 13 | M8 | 1x4 | | 6719 | 25358 | 95 | 2.674 |
| SFNI8010-4 | 80 | 10 | 6.35 | 105 | 150 | 22 | 93 | 127 | 115 | 14 | 20 | 13 | M8 | 1x4 | | 7346 | 31953 | 109 | 3.9 |

注 : 有☆记号可制作左螺纹 Note: ☆ Left Helix Available

## 大导程 SFY 系列 Big Lead SFY Series






单位 Unit : mm

| 一倍导程公称型号 Large Lead Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | A | E | B | L | W | H | X | Q | n | Ca(kgf) | Coa(kgf) | Kgf/um | Kg |
| SFY1616-3.6 | 16 | 16 | 2.778 | 32 | 53 | 10.1 | 10 | 45 | 42 | 34 | 4.5 | M6 | 1.8x2 | 1073 | 2551 | 31 | 0.238 |
| SFY2020-3.6 | 20 | 20 | 3.175 | 39 | 62 | 13 | 10 | 52 | 50 | 41 | 5.5 | M6 | 1.8x2 | 1387 | 3515 | 37 | 0.38 |
| SFY2525-3.6 | 25 | 25 | 3.969 | 47 | 74 | 15 | 12 | 64 | 60 | 49 | 6.6 | M6 | 1.8x2 | 2074 | 5494 | 45 | 0.652 |
| SFY3232-3.6 | 32 | 32 | 4.762 | 58 | 92 | 17 | 12 | 78 | 74 | 60 | 9 | M6 | 1.8x2 | 3021 | 8690 | 58 | 1.168 |
| SFY4040-3.6 | 40 | 40 | 6.35 | 73 | 114 | 19.5 | 15 | 99 | 93 | 75 | 11 | M6 | 1.8x2 | 4831 | 14062 | 70 | 2.288 |
| SFY5050-3.6 | 50 | 50 | 7.938 | 90 | 135 | 21.5 | 20 | 117 | 112 | 92 | 14 | M6 | 1.8x2 | 7220 | 21974 | 86 | 4.12 |

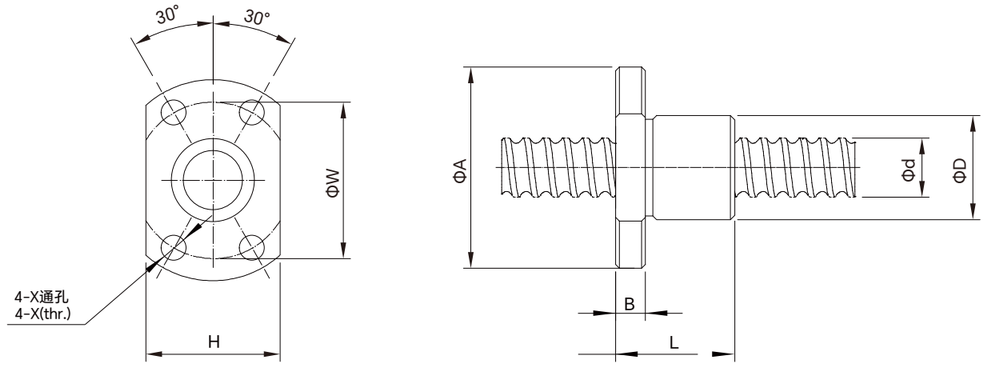
| 二倍导程公称型号 Twin Lead Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | A | E | B | L | W | H | X | Q | n | Ca(kgf) | Coa(kgf) | Kgf/um | Kg |
| SFY1632-1.6 | 16 | 32 | 2.778 | 32 | 53 | 10.1 | 10 | 42.5 | 42 | 34 | 4.5 | M6 | 0.8x2 | 493 | 1116 | 11 | 0.222 |
| SFY2040-1.6 | 20 | 40 | 3.175 | 39 | 62 | 13 | 10 | 48 | 50 | 41 | 5.5 | M6 | 0.8x2 | 653 | 1597 | 15 | 0.348 |
| SFY2550-1.6 | 25 | 50 | 3.969 | 47 | 74 | 15 | 12 | 58 | 60 | 49 | 6.6 | M6 | 0.8x2 | 976 | 2495 | 19 | 0.596 |
| SFY3264-1.6 | 32 | 64 | 4.762 | 58 | 92 | 17 | 12 | 71 | 74 | 60 | 9 | M6 | 0.8x2 | 1374 | 3571 | 22 | 1.066 |
| SFY4080-1.6 | 40 | 80 | 6.35 | 73 | 114 | 19.5 | 15 | 90 | 93 | 75 | 11 | M6 | 0.8x2 | 2273 | 6387 | 29 | 2.096 |
| SFY50100-1.6 | 50 | 100 | 7.938 | 90 | 135 | 21.5 | 20 | 111 | 112 | 92 | 14 | M6 | 0.8x2 | 3398 | 9980 | 35 | 3.818 |





## 微型 SFK 系列 Mini Type SFK Series






单位 Unit : mm

| 型号 Model No. | 轴径 d | 导程 l | 珠径 Da | 螺母尺寸 Dimension | | | | | | | | | | | | 动静额定负荷 Load Rating | | 刚性 Rigidity | 重量 Weight |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | D | A | B | L | W | H | X | Y | Z | Q | n | | Ca(kgf) | Coa(kgf) | Kgf/um | Kg |
| SFK0401 | 4 | 1 | 0.8 | 10 | 20 | 3 | 12 | 15 | 14 | 2.9 | – | – | – | 1x2 | | 64 | 97 | 5 | 0.024 |
| SFK0601 | 6 | 1 | 0.8 | 12 | 24 | 3.5 | 15 | 18 | 16 | 3.4 | – | – | – | 1x3 | | 111 | 224 | 9 | 0.018 |
| SFK0801 ☆ | 8 | 1 | 0.8 | 14 | 27 | 4 | 16 | 21 | 18 | 3.4 | – | – | – | 1x4 | | 161 | 403 | 14 | 0.027 |
| SFK0802 ☆ | | 2 | 1.2 | 14 | 27 | 4 | 16 | 21 | 18 | 3.4 | – | – | – | 1x3 | | 222 | 458 | 13 | 0.026 |
| SFK082.5 | | 2.5 | 1.2 | 16 | 29 | 4 | 26 | 23 | 20 | 3.4 | – | – | – | 1x3 | | 221 | 457 | 13 | 0.038 |
| SFK1002 ☆ | 10 | 2 | 1.2 | 18 | 35 | 5 | 28 | 27 | 22 | 4.5 | – | – | – | 1x3 | | 243 | 569 | 15 | 0.056 |
| SFK1004 | | 4 | 2 | 26 | 46 | 10 | 34 | 36 | 28 | 4.5 | 8 | 4.5 | M6 | 1x3 | | 468 | 905 | 17 | 0.068 |
| SFK1202 ☆ | 12 | 2 | 1.2 | 20 | 37 | 5 | 28 | 29 | 24 | 4.5 | – | – | – | 1x4 | | 334 | 906 | 22 | 0.062 |
| SFK1402 ☆ | 14 | 2 | 1.2 | 21 | 40 | 6 | 23 | 31 | 26 | 5.5 | – | – | – | 1x4 | | 354 | 1053 | 24 | 0.081 |
| SFK1602 ☆ | 16 | 2 | 1.2 | 25 | 43 | 10 | 40 | 35 | 29 | 5.5 | – | – | M6 | 1x4 | | 373 | 1200 | 26 | 0.236 |

注 : 有☆记号可制作左螺纹 Note: ☆ Left Helix Available



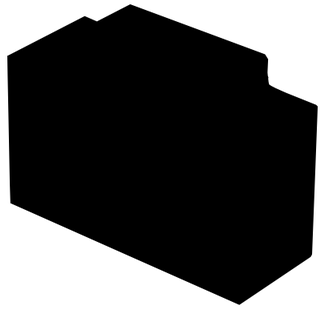

# 滚珠丝杠支撑座
# BALL SCREW BRACKETS



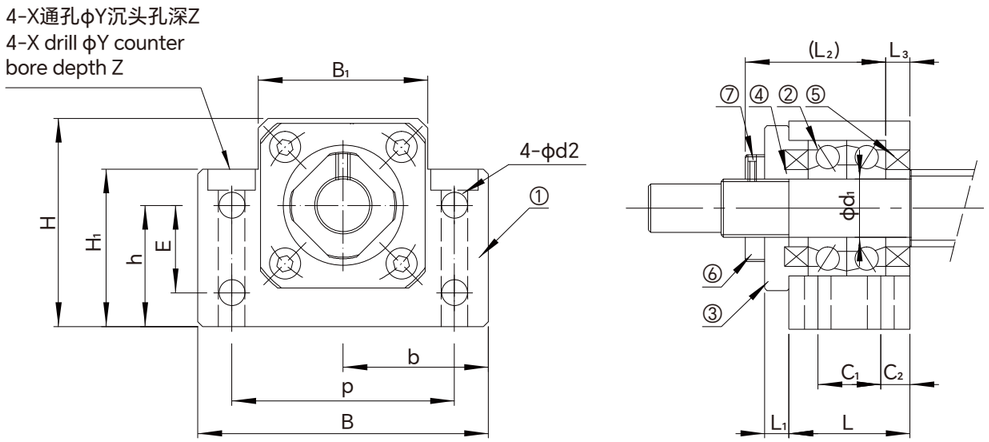
## 支撑座选型 Bracket Selection

| 固定侧支撑座内径 Fixed-side support unit ID (mm) | 固定侧支撑座适用型号 Fixed-side support unit applicable model | 支撑侧支撑座内径 Supported-side support unit iD ( mm ) | 支撑侧支撑座适用型号 Supported-side support unit applicable model | 通用滚珠丝杠外径 Applicale Ball Screw OD ( mm) |
|---|---|---|---|---|
| 5 | EK05 | - | - | ϕ6 |
| | FK05 | | | |
| 6 | EK06 | 6 | EF06 | ϕ8 |
| | FK06 | | FF06 | |
| 8 | EK08 | 6 | EF08 | ϕ10 |
| | FK08 | | FF08 | |
| 10 | EK10 | 8 | EF10 | ϕ12，ϕ14，ϕ15 |
| | FK10 | | FF10 | |
| | BK10 | | BF10 | |
| | AK10 | | AF10 | |
| 12 | EK12 | 10 | EF12 | ϕ14，ϕ15，ϕ16 |
| | FK12 | | FF12 | |
| | BK12 | | BF12 | |
| | AK12 | | AF12 | |
| 15 | EK15 | 15 | EF15 | ϕ18，ϕ20 |
| | FK15 | | FF15 | |
| | BK15 | | BF15 | |
| | AK15 | | AF15 | |
| 17 | BK17 | 17 | BF17 | ϕ20，ϕ25 |
| | FK17 | | FF17 | |
| 20 | EK20 | 20 | EF20 | ϕ25，ϕ28 |
| | FK20 | | FF20 | |
| | BK20 | | BF20 | |
| | AK20 | | AF20 | |
| 25 | EK25 | 25 | EF25 | ϕ32，ϕ36 |
| | FK25 | | FF25 | |
| | BK25 | | BF25 | |
| | AK25 | | AF25 | |
| 30 | FK30 | 30 | FF30 | ϕ36，ϕ40，ϕ45 |
| | BK30 | | BF30 | |
| 35 | BK35 | 35 | BF35 | ϕ45 |
| 40 | BK40 | 40 | BF40 | ϕ50 |
| | FK40 | | FF40 | |
| 50 | BK50 | 50 | BF50 | ϕ63，ϕ80 |
| 60 | BK60 | 60 | BF60 | ϕ80，ϕ100 |

# 支撑座固定端 BK 系列 Bracket Fixed Side BK Series



| 型号 Model No. | 部品名称 Part Name | 数量 Qty |
|---|---|---|
| 1 | 轴承座本体 /Housing | 1 |
| 2 | 轴承 /Bearing | 1 组 /1set |
| 3 | 压板 /Holding lid | 1 |
| 4 | 间隔圈 /Collar | 2 |
| 5 | 轴封 /Seal | 1(2) |
| 6 | 锁固螺帽 /Lock nut | 1 |
| 7 | 内六角止付螺丝付铜片 / Hexagon socket-head Setscrew(With set piece) | 2 |




单位 Unit : mm

| 型号 Model No. | 轴径 Shaft Diameter $d_1$ | L | $L_1$ | $L_2$ | $L_3$ | B | H | b ±0.02 | h ±0.02 | $B_1$ | $H_1$ | E | P | $C_1$ | $C_2$ | $d_2$ | X | Y | Z | M | T | 使用轴承 Bearing | 重量 Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BK10 | 10 | 25 | 5 | 29 | 5 | 60 | 39 | 30 | 22 | 34 | 32.5 | 15 | 46 | 13 | 6 | 5.5 | 6.6 | 10.8 | 5 | M3 | 16 | 6000/7000ZZ | 0.36 |
| BK12 | 12 | 25 | 5 | 29 | 5 | 60 | 43 | 30 | 25 | 34 | 32.5 | 18 | 46 | 13 | 6 | 5.5 | 6.6 | 10.8 | 1.5 | M4 | 19 | 6001/7001ZZ | 0.4 |
| BK15 | 15 | 27 | 6 | 32 | 6 | 70 | 48 | 35 | 28 | 40 | 38 | 18 | 54 | 15 | 6 | 5.5 | 6.6 | 11 | 6.5 | M4 | 22 | 6002/7002ZZ | 0.46 |
| BK17 | 17 | 35 | 9 | 44 | 7 | 86 | 64 | 43 | 39 | 50 | 55 | 28 | 68 | 19 | 8 | 6.6 | 9 | 14 | 8.5 | M4 | 24 | 6203/7203ZZ | 1.22 |
| BK20 | 20 | 35 | 8 | 43 | 8 | 88 | 60 | 44 | 34 | 52 | 50 | 22 | 70 | 19 | 8 | 6.6 | 9 | 14 | 8.5 | M4 | 30 | 6004/7004ZZ | 1.22 |
| BK25 | 25 | 42 | 12 | 54 | 9 | 106 | 80 | 53 | 48 | 64 | 70 | 33 | 85 | 22 | 10 | 9 | 11 | 17.5 | 11 | M6 | 35 | 6205/7205ZZ | 2.22 |
| BK30 | 30 | 45 | 14 | 61 | 9 | 128 | 89 | 64 | 51 | 76 | 78 | 33 | 102 | 23 | 11 | 11 | 14 | 20 | 13 | M6 | 40 | 6206/7206ZZ | 3.18 |
| BK35 | 35 | 50 | 14 | 67 | 12 | 140 | 96 | 70 | 52 | 88 | 79 | 35 | 114 | 26 | 12 | 11 | 14 | 20 | 13 | M6 | 50 | 6207/7207ZZ | 4.12 |
| BK40 | 40 | 61 | 18 | 76 | 15 | 160 | 110 | 80 | 60 | 100 | 90 | 37 | 130 | 33 | 14 | 14 | 18 | 26 | 17.5 | M6 | 50 | 6208/7208ZZ | 6.5 |
| BK50 | 50 | 70 | 23 | 93 | 25 | 170 | 130 | 85 | 70 | 106 | 95 | 40 | 138 | 42 | 14 | 14 | 18 | 26 | 18 | M8 | 60 | 6210/7210ZZ | 9.16 |
| BK50-1 | 50 | 65 | 15 | 93 | 18 | 180 | 120 | 90 | 65 | 110 | 100 | - | 150 | 37 | 14 | 14 | 18 | 26 | 18 | M8 | 60 | 6210/7210ZZ | 9.16 |
| BK60 | 60 | 65 | 15 | - | 15 | 190 | 130 | 95 | 70 | 120 | 105 | - | 155 | 33 | - | - | 18 | 26 | 18 | M8 | 70 | 6212/7212ZZ | 12 |



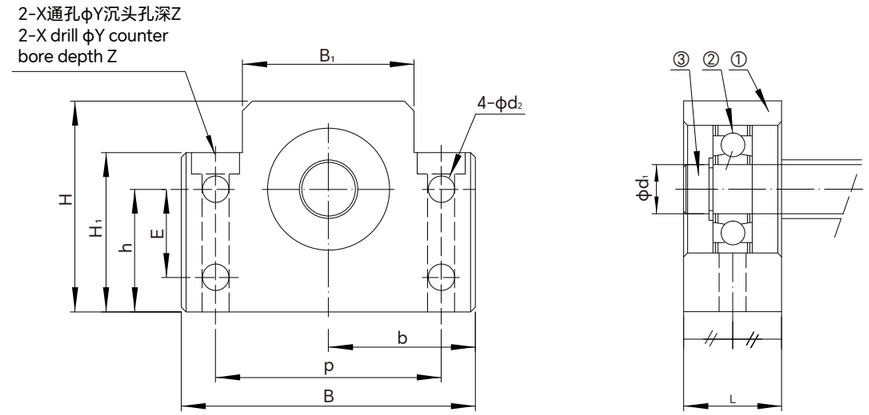




# 支撑座支持端 BF 系列 Bracket Floated Side BF Series



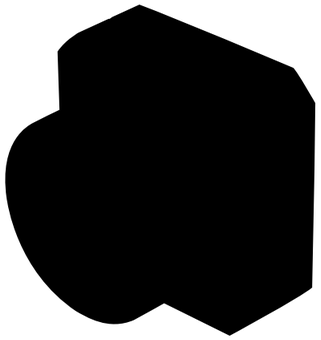

| 型号 Model No. | 部品名称 Part Name | 数量 Qty |
|---|---|---|
| 1 | 轴承座本体 /Housing | 1 |
| 2 | 轴承 /Bearing | 1 组 /1set |
| 3 | C 型扣环 /Snap ring | 1 |



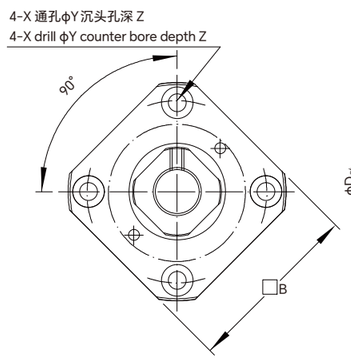

单位 Unit : mm

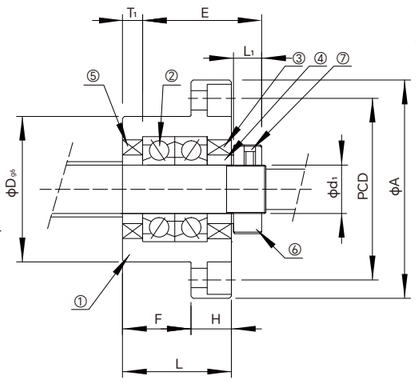
| 型号 Model No. | 轴径 Shaft Diameter $d_1$ | L | B | H | b ±0.02 | h ±0.02 | $B_1$ | $H_1$ | E | P | $d_2$ | X | Y | Z | 使用轴承 Bearing | 使用 C 型扣环 Using C-type Cramp Ring | 重量 Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BF10 | 8 | 20 | 60 | 39 | 30 | 22 | 34 | 32.5 | 15 | 46 | 5.5 | 6.6 | 10.8 | 5 | 608ZZ | S08 | 0.26 |
| BF12 | 10 | 20 | 60 | 43 | 30 | 25 | 34 | 32.5 | 18 | 46 | 5.5 | 6.6 | 10.8 | 1.5 | 6000ZZ | S10 | 0.3 |
| BF15 | 15 | 20 | 70 | 48 | 35 | 28 | 40 | 38 | 18 | 54 | 5.5 | 6.6 | 11 | 6.5 | 6002ZZ | S15 | 0.34 |
| BF17 | 17 | 23 | 86 | 64 | 43 | 39 | 50 | 55 | 28 | 68 | 6.6 | 9 | 14 | 8.5 | 6203ZZ | S17 | 0.68 |
| BF20 | 20 | 26 | 88 | 60 | 44 | 34 | 52 | 50 | 22 | 70 | 6.6 | 9 | 14 | 8.5 | 6004ZZ | S08 | 0.68 |
| BF25 | 25 | 30 | 106 | 80 | 53 | 48 | 64 | 70 | 33 | 85 | 9 | 11 | 17.5 | 11 | 6205ZZ | S25 | 1.34 |
| BF30 | 30 | 32 | 128 | 89 | 64 | 51 | 76 | 78 | 33 | 102 | 11 | 14 | 20 | 13 | 6206ZZ | S30 | 1.84 |
| BF35 | 35 | 32 | 140 | 96 | 70 | 52 | 88 | 79 | 35 | 114 | 11 | 14 | 20 | 13 | 6207ZZ | S35 | 2.12 |
| BF40 | 40 | 37 | 160 | 110 | 80 | 60 | 100 | 90 | 37 | 130 | 14 | 18 | 26 | 17.5 | 6208ZZ | S40 | 3.14 |
| BF50 | 50 | 40 | 170 | 130 | 85 | 70 | 106 | 95 | 40 | 138 | 14 | 18 | 26 | 18 | 6210ZZ | S50 | 4.13 |
| BF50-1 | 50 | 45 | 180 | 120 | 90 | 65 | 110 | 100 | - | 150 | - | 18 | 26 | 18 | 6210ZZ | S50 | 4.13 |
| BF60 | 60 | 45 | 190 | 130 | 95 | 70 | 120 | 105 | - | 155 | - | 18 | 26 | 18 | 6212ZZ | S60 | 7.66 |

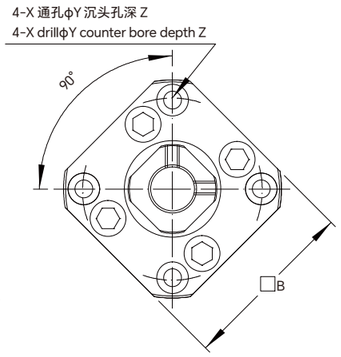
# 支撑座固定端 FK 系列 Bracket Fixed Side FK Series



| 型号 Model No. | 部品名称 Part Name | 数量 Qty |
|---|---|---|
| 1 | 轴承座本体 /Housing | 1 |
| 2 | 轴承 /Bearing | 1 组 /1set |
| 3 | 压板 /Holding lid | 1 |
| 4 | 间隔圈 /Collar | 2 |
| 5 | 轴封 /Seal | 2 |
| 6 | 锁固螺帽 /Lock nut | 1 组 /1set |
| 7 | 内六角止付螺丝付铜片 / Hexagon socket-head Setscrew(With set piece) | 2 |




FK05-FK08　　FK10-FK30

单位 Unit : mm

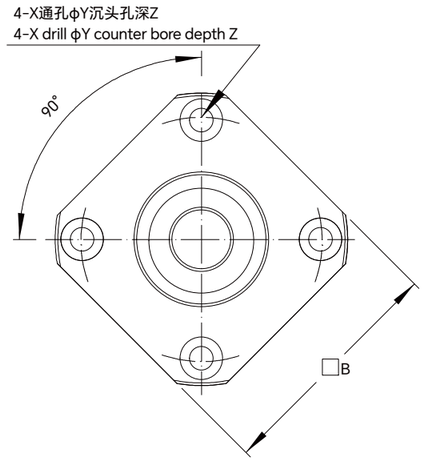
| 型号 Model No. | 轴径 Shaft Diameter $d_1$ | L | H | F | E | Dg6 | A | PDC | B | 装置方法 A | | X | Y | Z | M | T | 使用轴承 Bearing | 重量 Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | $L_1$ | $T_1$ | | | | | | | |
| FK05 | 5 | 16.5 | 6 | 10.5 | 18.5 | 20 -0.007 -0.02 | 34 | 26 | 26 | 5.5 | 3.5 | 3.4 | 6.5 | 4 | M3 | 11 | 605ZZ | 0.18 |
| FK06 | 6 | 20 | 7 | 13 | 22 | 22 -0.007 -0.02 | 36 | 28 | 28 | 5.5 | 3.5 | 3.4 | 6.5 | 4 | M3 | 12 | 606/706ZZ | 0.20 |
| FK08 | 8 | 23 | 9 | 14 | 26 | 28 -0.007 -0.02 | 43 | 35 | 35 | 7 | 4 | 3.4 | 6.5 | 4 | M3 | 14 | 608/708ZZ | 0.22 |
| FK10 | 10 | 27 | 10 | 17 | 29.5 | 34 -0.009 -0.025 | 52 | 42 | 42 | 7.5 | 5 | 4.5 | 8 | 4 | M3 | 16 | 6000/7000ZZ | 0.21 |
| FK12 | 12 | 27 | 10 | 17 | 29.5 | 36 -0.009 -0.025 | 54 | 44 | 44 | 7.5 | 5 | 4.5 | 8 | 4 | M4 | 19 | 6001/7001ZZ | 0.23 |
| FK15 | 15 | 32 | 15 | 17 | 36 | 40 -0.009 -0.025 | 63 | 50 | 52 | 10 | 6 | 5.5 | 9.5 | 6 | M4 | 22 | 6002/7002ZZ | 0.34 |
| FK17 | 17 | 45 | 22 | 23 | 47 | 50 -0.009 -0.025 | 77 | 62 | 61 | 11 | 9 | 6.6 | 11 | 10 | M4 | 24 | 6203/7203ZZ | 0.73 |
| FK20 | 20 | 52 | 22 | 30 | 50 | 57 -0.010 -0.029 | 86 | 70 | 68 | 8 | 10 | 6.6 | 11 | 10 | M4 | 30 | 6204/7204ZZ | 1.02 |
| FK25 | 25 | 57 | 27 | 30 | 60 | 63 -0.010 -0.029 | 98 | 80 | 79 | 13 | 10 | 9 | 15 | 13 | M6 | 35 | 6205/7205ZZ | 1.42 |
| FK30 | 30 | 62 | 30 | 32 | 61 | 75 -0.010 -0.029 | 117 | 95 | 93 | 11 | 12 | 11 | 17.5 | 15 | M6 | 40 | 6206/7206ZZ | 2.18 |
| FK40 | 40 | 74 | 32 | 42 | 76 | 95 -0.012 -0.034 | 142 | 120 | 106 | 20 | 16 | 11 | 17.5 | 15 | M6 | 50 | 6208/7208ZZ | 3.49 |

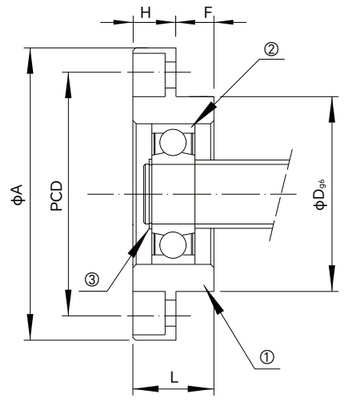


# 支撑座支持端 FF 系列 Bracket Floated Side FF Series



| 型号 Model No. | 部品名称 Part Name | 数量 Qty |
|---|---|---|
| 1 | 轴承座本体 /Housing | 1 |
| 2 | 轴承 /Bearing | 1 组 /1set |
| 3 | C 型扣环 /Snap ring | 1 |

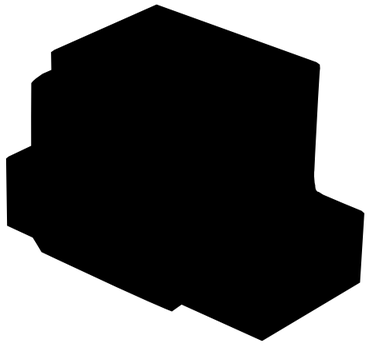


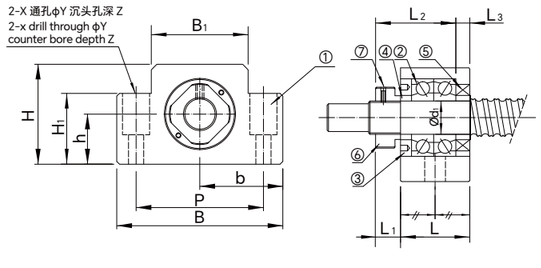

单位 Unit : mm

| 型号 Model No. | 轴径 Shaft Diameter $d_1$ | L | H | F | Dg6 | A | PDC | B | X | Y | Z | 使用轴承 Bearing | **使用 C 型扣环** Using C-type Cramp Ring | 重量 Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FF06 | 6 | 10 | 6 | 4 | 22 -0.007 -0.02 | 36 | 28 | 28 | 3.4 | 6.5 | 4 | 606ZZ | S06 | 0.03 |
| FF10 | 8 | 12 | 7 | 5 | 28 -0.007 -0.02 | 43 | 35 | 35 | 3.4 | 6.5 | 4 | 608ZZ | S08 | 0.05 |
| FF12 | 10 | 15 | 7 | 8 | 34 -0.009 -0.025 | 52 | 42 | 42 | 4.5 | 8 | 4 | 6000ZZ | S10 | 0.09 |
| FF15 | 15 | 17 | 9 | 8 | 40 -0.009 -0.025 | 63 | 50 | 52 | 5.5 | 9.5 | 5.5 | 6002ZZ | S15 | 0.16 |
| FF17 | 17 | 20 | 11 | 9 | 50 -0.009 -0.025 | 77 | 62 | 61 | 6.6 | 11 | 6.5 | 6203ZZ | S17 | 0.29 |
| FF20 | 20 | 20 | 11 | 9 | 57 -0.010 -0.029 | 85 | 70 | 68 | 6.6 | 11 | 6.5 | 6004ZZ | S20 | 0.38 |
| FF25 | 25 | 24 | 14 | 10 | 63 -0.010 -0.029 | 98 | 80 | 79 | 9 | 14 | 8.5 | 6205ZZ | S25 | 0.56 |
| FF30 | 30 | 27 | 18 | 9 | 75 -0.010 -0.029 | 117 | 95 | 93 | 11 | 17.5 | 11 | 6206ZZ | S30 | 0.94 |
| FF40 | 40 | 33 | 21 | 12 | 95 -0.012 -0.034 | 142 | 120 | 106 | 11 | 17.5 | 11 | 6208ZZ | S40 | 1.45 |

# 支撑座固定端 EK 系列 Bracket Fixed Side EK Series



| 型号 Model No. | 部品名称 Part Name | 数量 Qty |
|---|---|---|
| 1 | 轴承座本体 /Housing | 1 |
| 2 | 轴承 /Bearing | 1 组 /1set |
| 3 | 压板 /Holding lid | 1 |
| 4 | 间隔圈 /Collar | 2 |
| 5 | 轴封 /Seal | 1(2) |
| 6 | 锁固螺帽 /Lock nut | 1 |
| 7 | 内六角止付螺丝付铜片 / Hexagon socket-head Setscrew(With set piece) | 2 |




EK06-EK08　　EK10-EK25

单位 Unit : mm

| 型号 Model No. | 轴径 Shaft Diameter $d_1$ | L | $L_1$ | $L_2$ | $L_3$ | B | H | b ±0.02 | h ±0.02 | $B_1$ | $H_1$ | P | X | Y | Z | M | T | 使用轴承 Bearing | 重量 Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EK05 | 5 | 16.5 | 5.5 | 18.5 | 3.5 | 36 | 21 | 18 | 11 | 20 | 8 | 28 | 4.5 | - | - | M3 | 11 | 605ZZ | 0.18 |
| EK06 | 6 | 20 | 5.5 | 22 | 3.5 | 42 | 25 | 21 | 13 | 18 | 20 | 30 | 5.5 | 9.5 | 11 | M3 | 12 | 606/706ZZ | 0.20 |
| EK08 | 8 | 23 | 7 | 26 | 4 | 52 | 32 | 26 | 17 | 25 | 26 | 38 | 6.6 | 11 | 12 | M3 | 14 | 608/708ZZ | 0.22 |
| EK10 | 10 | 24 | 6 | 29.5 | 6 | 70 | 43 | 35 | 25 | 36 | 24 | 52 | 9 | - | - | M3 | 16 | 6000/7000ZZ | 0.4 |
| EK12 | 12 | 24 | 6 | 29.5 | 6 | 70 | 43 | 35 | 25 | 36 | 24 | 52 | 9 | - | - | M4 | 19 | 6001/7001ZZ | 0.4 |
| EK15 | 15 | 25 | 6 | 36 | 5 | 80 | 49 | 40 | 30 | 41 | 25 | 60 | 11 | - | - | M4 | 22 | 6002/7002ZZ | 0.5 |
| EK20 | 20 | 42 | 10 | 50 | 10 | 95 | 58 | 47.5 | 30 | 56 | 25 | 75 | 11 | - | - | M4 | 30 | 6204/7204ZZ | 1.24 |
| EK25 | 25 | 48 | 12 | 59 | 14 | 105 | 68 | 52.5 | 35 | 66 | 25 | 85 | 11 | - | - | M6 | 35 | 6205/7205ZZ | 1.92 |



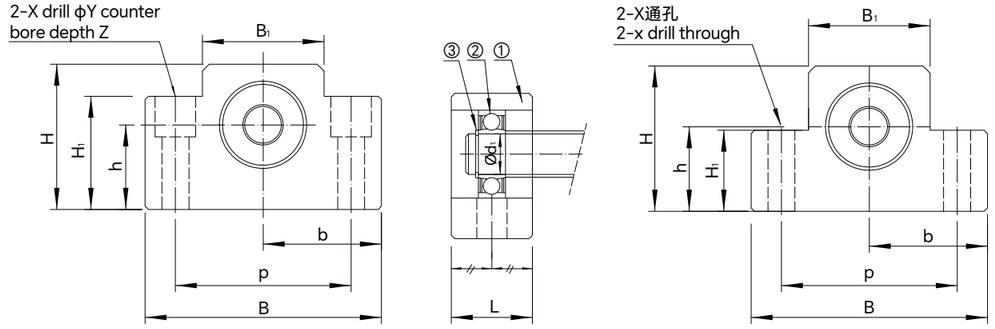




# 支撑座支持端 EF 系列 Bracket Floated Side EF Series




| 型号 Model No. | 部品名称 Part Name | 数量 Qty |
|---|---|---|
| 1 | 轴承座本体 /Housing | 1 |
| 2 | 轴承 /Bearing | 1 组 /1set |
| 3 | C 型扣环 /Snap ring | 1 |




EF06-EF08　　EF10-EF25

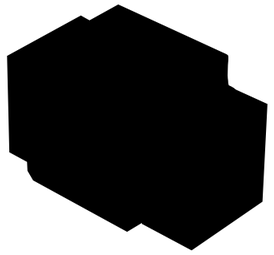
单位 Unit : mm

| 型号 Model No. | 轴径 Shaft Diameter $d_1$ | L | B | H | b ±0.02 | h ±0.02 | $B_1$ | $H_1$ | P | X | Y | Z | 使用轴承 Bearing | **使用 C 型扣环** Using C-type Cramp Ring | 重量 Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF06 | 6 | 12 | 42 | 25 | 21 | 13 | 18 | 20 | 30 | 5.5 | 9.5 | 11 | 606ZZ | S06 | 0.10 |
| EF08 | 6 | 14 | 52 | 32 | 26 | 17 | 25 | 26 | 38 | 6.6 | 11 | 12 | 606ZZ | S06 | 0.12 |
| EF10 | 8 | 20 | 70 | 43 | 35 | 25 | 36 | 24 | 52 | 9 | - | - | 608ZZ | S08 | 0.28 |
| EF12 | 10 | 20 | 70 | 43 | 35 | 25 | 36 | 24 | 52 | 9 | - | - | 6000ZZ | S10 | 0.28 |
| EF15 | 15 | 20 | 80 | 49 | 40 | 30 | 41 | 25 | 60 | 9 | - | - | 6002ZZ | S15 | 0.34 |
| EF20 | 20 | 26 | 95 | 58 | 47.5 | 30 | 56 | 25 | 72 | 11 | - | - | 6204ZZ | S20 | 0.57 |
| EF25 | 25 | 30 | 105 | 68 | 52.5 | 35 | 66 | 25 | 85 | 11 | - | - | 6205ZZ | S25 | 0.95 |

# 支撑座固定端 AK 系列 Bracket Fixed Side AK Series



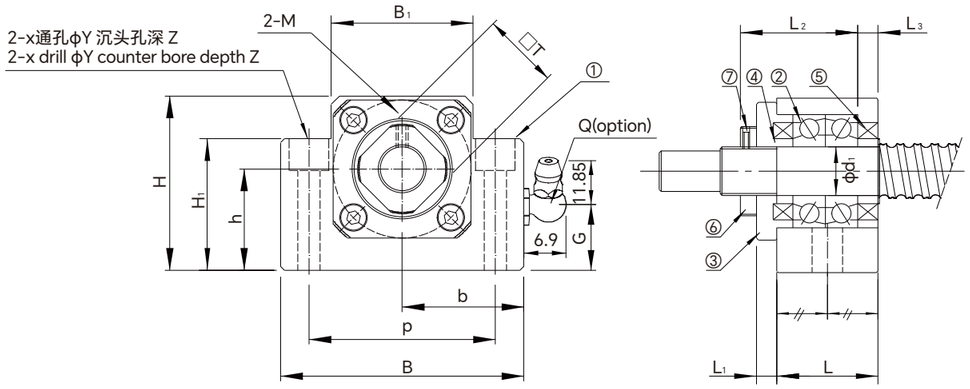

AK10-AK15



AK20



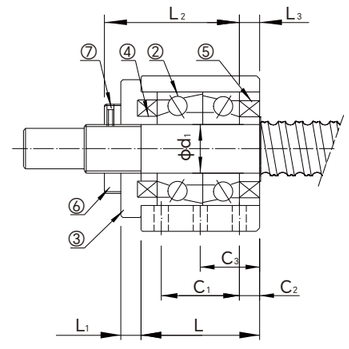

AK25




AK10-AK25




AK10-AK15




AK20-AK25

| 型号 Model No. | 部品名称 Part Name | 数量 Qty |
|---|---|---|
| 1 | 轴承座本体 /Housing | 1 |
| 2 | 轴承 /Bearing | 1 组 /1set |
| 3 | 压板 /Holding lid | 1 |
| 4 | 间隔圈 /Collar | 2 |
| 5 | 轴封 /Seal | 2 |
| 6 | 锁固螺帽 /Lock nut | 1 组 /1set |
| 7 | 内六角止付螺丝付铜片 / Hexagon socket-head Setscrew(With set piece) | 2 |

单位 Unit : mm

| 型号 Model No. | 轴径 Shaft Diameter $d_1$ | L | $L_1$ | $L_2$ | $L_3$ | B | H | b ±0.02 | h ±0.02 | $B_1$ | $H_1$ | P | X | Y | Z | M | T | $C_1$ | $C_2$ | $C_3$ | G | Q | 使用轴承 Bearing | 重量 Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AK10 | 10 | 24 | 6 | 29.5 | 6 | 70 | 43 | 35 | 25 | 36 | 35 | 52 | 9 | 14 | 11 | M3 | 16 | - | - | - | 20 | M6 | 6000/7000ZZ | 0.5 |
| AK12 | 12 | 24 | 6 | 29.5 | 6 | 70 | 43 | 35 | 25 | 36 | 35 | 52 | 9 | 14 | 11 | M4 | 19 | - | - | - | 20 | M6 | 6001/7001zz | 0.5 |
| AK15 | 15 | 25 | 6 | 36 | 5 | 80 | 49 | 40 | 30 | 41 | 40 | 60 | 11 | 17 | 15 | M4 | 22 | - | - | - | 21 | M6 | 6002/7002zz | 0.62 |
| AK20 | 20 | 42 | 10 | 50 | 10 | 95 | 58 | 47.5 | 30 | 56 | 45 | 75 | 11 | 17 | 15 | M4 | 30 | 22 | 10 | - | 24 | M6 | 6204/7204zz | 1.43 |
| AK25 | 25 | 48 | 12 | 59 | 14 | 105 | 68 | 52.5 | 35 | 66 | 25 | 85 | 11 | - | - | M6 | 35 | 30 | 9 | 24 | 58 | - | 6205/7205zz | 1.92 |





# 支撑座支持端 AF 系列 Bracket Floated Side AF Series

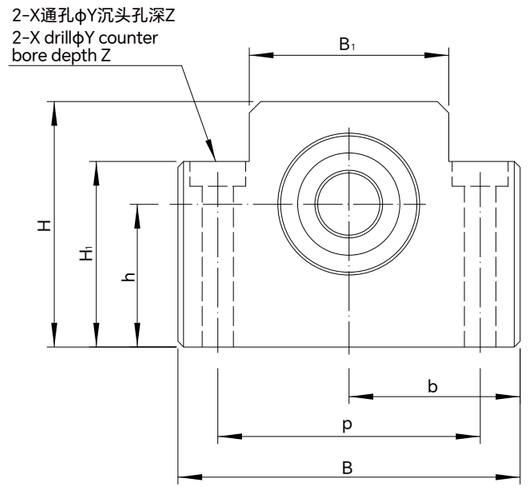


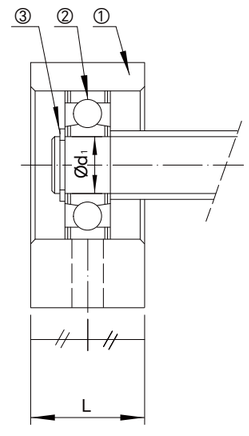
AF10-AF20




AF25

| 型号 Model No. | 部品名称 Part Name | 数量 Qty |
|---|---|---|
| 1 | 轴承座本体 /Housing | 1 |
| 2 | 轴承 /Bearing | 1 组 /1set |
| 3 | C 型扣环 /Snap ring | 1 |

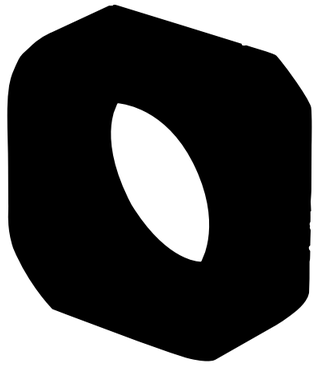


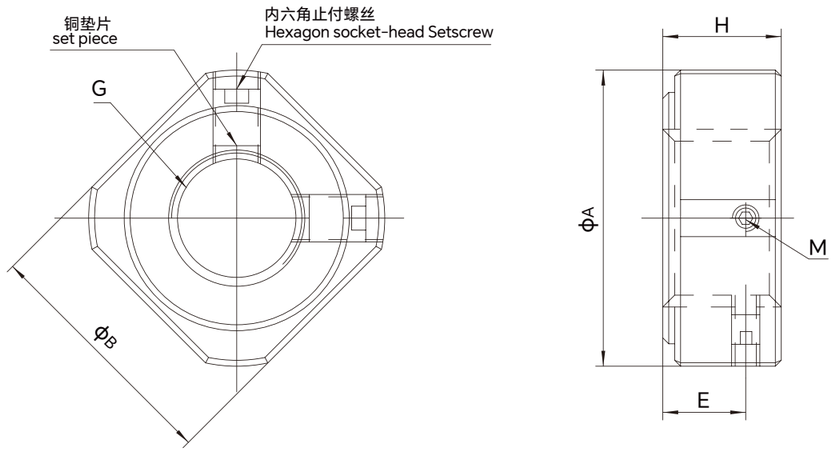

单位 Unit : mm

| 型号 Model No. | 轴径 Shaft Diameter $d_1$ | L | B | H | b ±0.02 | h ±0.02 | $B_1$ | $H_1$ | P | X | Y | Z | 使用轴承 Bearing | 使用 C 型扣环 Using C-type Cramp Ring | 重量 Weight (kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AF10 | 8 | 20 | 70 | 43 | 35 | 25 | 36 | 35 | 52 | 9 | 14 | 11 | 608ZZ | S08 | 0.36 |
| AF12 | 10 | 20 | 70 | 43 | 35 | 25 | 36 | 35 | 52 | 9 | 14 | 11 | 6000ZZ | S10 | 0.36 |
| AF15 | 15 | 20 | 80 | 49 | 40 | 30 | 41 | 40 | 60 | 9 | 14 | 11 | 6002ZZ | S15 | 0.44 |
| AF20 | 20 | 26 | 95 | 58 | 47.5 | 30 | 56 | 45 | 75 | 11 | 17 | 15 | 6204ZZ | S20 | 0.73 |
| AF25 | 25 | 30 | 105 | 68 | 52.5 | 35 | 66 | 25 | 85 | 11 | - | - | 6205ZZ | S25 | 0.95 |

## 锁紧螺帽 RN 系列 Locknut RN Series



| 型号 Model No. | 部品名称 Part Name | 数量 Qty |
|---|---|---|
| 6 | 锁固螺帽 /Lock nut | 1 组 /1set |
| 7 | 内六角止付螺丝付铜片 / Hexagon socket-head Setscrew(With set piece) | 2 |




单位 Unit : mm

| 型号 Model No. | H | A | E | M | B | G |
|---|---|---|---|---|---|---|
| RN05 RN05-N | 5 | 12.5 | 2.7 | M3X0.5 | 11 | M5X0.5 |
| RN06 RN06-N | 5 | 13.5 | 2.7 | M3X0.5 | 12 | M6X0.75 |
| RN08 RN08-N | 6.5 | 16.4 | 4 | M3X0.5 | 14 | M8X1.0 |
| RN10 RN10-N | 8 | 19 | 5.5 | M3X0.5 | 16 | M10X1.0 |
| RN12 RN12-N | 8 | 22.8 | 5.5 | M4X0.7 | 19 | M12X1.0 |
| RN15 RN15-N | 8 | 25.8 | 4.75 | M4X0.7 | 22 | M15X1.0 |

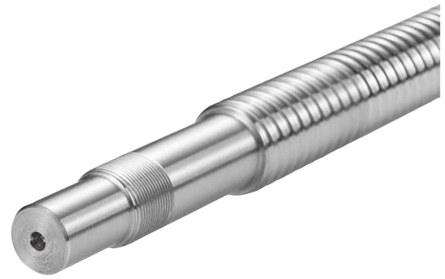
| 型号 Model No. | H | A | E | M | B | G |
|---|---|---|---|---|---|---|
| RN17 RN17-N | 13 | 29 | 9 | M4 | 24 | M17X1.0 |
| RN20 RN20-N | 11 | 35 | 7 | M4 | 30 | M20X1.0 |
| RN25 RN25-N | 15 | 43 | 10 | M6 | 35 | M25X1.5 |
| RN30 RN30-N | 20 | 48 | 14 | M6 | 40 | M30X1.5 |
| RN35 RN35-N | 21 | 60 | 14 | M6 | 50 | M35X1.5 |
| RN40 RN40-N | 25 | 62 | 18 | M6 | 50 | M40X1.5 |

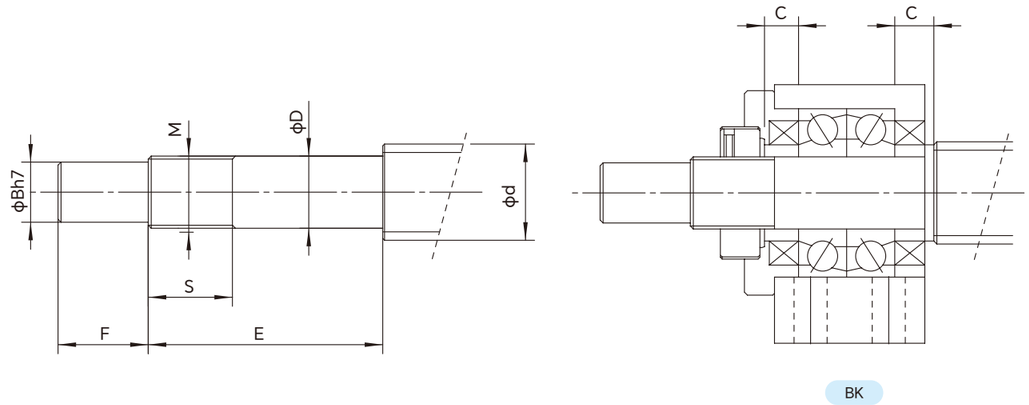






## 固定端 BK 加工尺寸 Fixed Side BK Machining Size



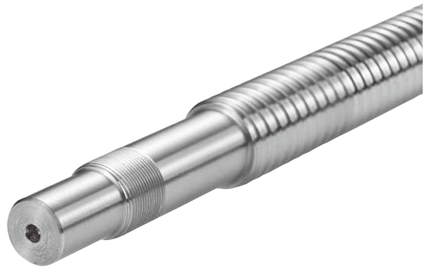


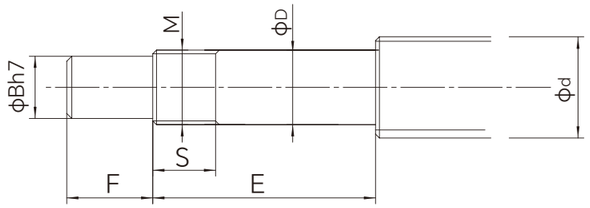

BK

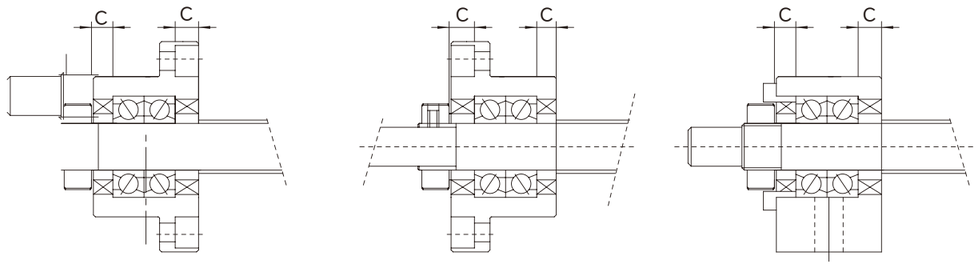
单位 Unit : mm

| 型号 Model No. | 滚珠丝杠 轴外径 Shaft Support OD | 轴段部外径 Shaft Support OD | | | | 公称螺纹 Metric Screw Thread | | 套筒长度 Ferrule Length |
|---|---|---|---|---|---|---|---|---|
| BK 型 | d | D | B | E | F | M | S | C |
| BK10 | 12/14/15 | 10 $^{-0.006}_{-0.014}$ | 8 | 39 | 15 | M10×1 | 14 | 5 |
| BK12 | 14/15/16 | 12 $^{-0.006}_{-0.014}$ | 10 | 39 | 15 | M12×1 | 14 | 5 |
| BK15 | 18/20 | 15 $^{-0.008}_{-0.015}$ | 12 | 40 | 20 | M15×1 | 12 | 6 |
| BK17 | 20/25 | 17 $^{-0.008}_{-0.015}$ | 15 | 53 | 23 | M17×1 | 17 | 7 |
| BK20 | 25/28 | 20 $^{-0.008}_{-0.017}$ | 17 | 53 | 25 | M20×1 | 15 | 8 |
| BK25 | 32/36 | 25 $^{-0.008}_{-0.017}$ | 20 | 66 | 30 | M25×1.5 | 20 | 9 |
| BK30 | 36/40/45 | 30 $^{-0.008}_{-0.017}$ | 25 | 72 | 38 | M30×1.5 | 25 | 9 |
| BK35 | 45 | 35 $^{-0.008}_{-0.017}$ | 30 | 81 | 45 | M35×1.5 | 28 | 12 |
| BK40 | 50 | 40 $^{-0.008}_{-0.02}$ | 35 | 98 | 50 | M40×1.5 | 35 | 15 |

## 固定端 FK/EK/AK 加工尺寸 Fixed Side FK / EK /AK Machining Size






FK




FK



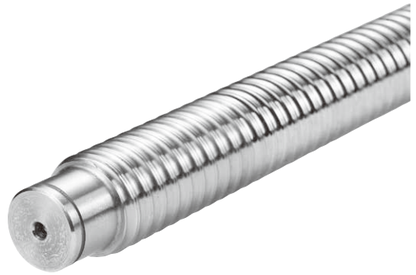

EK/AK

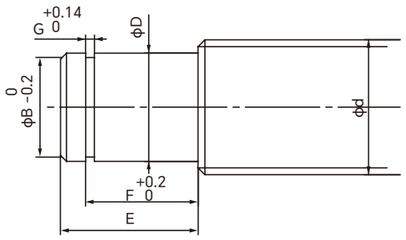
单位 Unit : mm

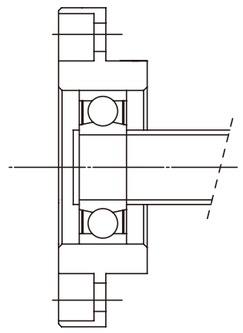
| 型号 Model No. | | | 滚珠丝杠轴外径 Shaft Support OD | 轴段部外径 Shaft Support OD | | | | 公称螺纹 Metric Screw Thread | | 套筒长度 Ferrule Length |
|---|---|---|---|---|---|---|---|---|---|---|
| FK 型 | EK 型 | AK 型 | d | D | B | E | F | M | S | C |
| FK05 | EK05 | - | 8 | 5 -0.005 -0.012 | 4 | 25 | 6 | M5×0.5 | 7 | 3.5 |
| FK06 | EK06 | - | 8 | 6 -0.005 -0.012 | 4 | 28 | 8 | M6×0.75 | 8 | 5 |
| FK08 | EK08 | - | 10/12 | 8 -0.005 -0.012 | 6 | 32 | 9 | M8×1 | 10 | 5.5 |
| FK10 | EK10 | AK10 | 12/14/15 | 10 -0.006 -0.014 | 8 | 36 | 15 | M10×1 | 11 | 5.5 |
| FK12 | EK12 | AK12 | 14/15/16 | 12 -0.006 -0.014 | 10 | 36 | 15 | M12×1 | 11 | 5.5 |
| FK15 | EK15 | AK15 | 18/20 | 15 -0.008 -0.015 | 12 | 47 | 20 | M15×1 | 13 | 10 |
| FK17 | - | - | 20/25 | 17 -0.008 -0.015 | 15 | 58 | 23 | M17×1 | 15 | 10 |
| FK20 | EK20 | AK20 | 25/28/30 | 20 -0.008 -0.017 | 17 | 62 | 25 | M20×1 | 17 | 11 |
| FK25 | - | - | 30/32/36 | 25 -0.008 -0.017 | 20 | 76 | 30 | M25×1.5 | 20 | 15 |
| FK30 | - | - | 36/40 | 30 -0.008 -0.017 | 25 | 72 | 38 | M30×1.5 | 25 | 9 |



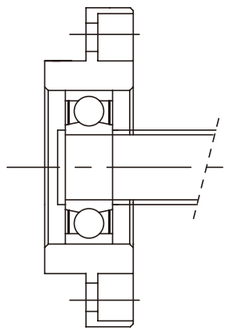
## 支持端 FF/EF/BF/AF 加工尺寸 Floated Side FF/EF/BF/AF Machining Size



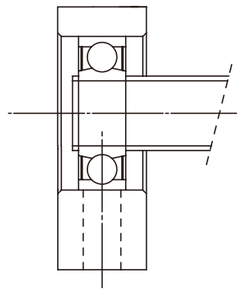


FF



FF



EF/BF/AF

单位 Unit : mm

| 型号 Model No. | | | | 滚珠丝杠轴外径 Shaft Support OD | 轴段部外径 Shaft Support OD | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FF 型 | EF 型 | BF 型 | AF 型 | d | D | E | B | F | G |
| FF06 | EF06 | - | - | 8 | 6 -0.005 -0.012 | 9 | 5.7 | 6.8 | 0.8 |
| - | EF08 | - | - | 10 | 6 -0.005 -0.012 | 9 | 5.7 | 6.8 | 0.8 |
| FF10 | EF10 | BF10 | AF10 | 12/14/15 | 8 -0.006 -0.014 | 10 | 7.6 | 7.9 | 0.9 |
| FF12 | EF12 | BF12 | AF12 | 14/15/16 | 10 -0.006 -0.014 | 11 | 9.6 | 9.15 | 1.15 |
| FF15 | EF15 | BF15 | AF15 | 18/20 | 15 -0.006 -0.014 | 13 | 14.3 | 10.15 | 1.15 |
| FF17 | - | BF17 | - | 20/25 | 17 -0.008 -0.015 | 16 | 16.2 | 13.15 | 1.15 |
| FF20 | EF20 | (BF20)Note | AF20 | 25/28/30 | 20 -0.008 -0.015 | 19(16) | 19 | 15.35(13.35) | 1.35 |
| FF25 | - | BF25 | - | 30/32/36 | 25 -0.008 -0.015 | 20 | 23.9 | 16.35 | 1.35 |
| FF30 | - | BF30 | - | 36/40 | 30 -0.008 -0.015 | 21 | 28.6 | 17.75 | 1.75 |
| - | - | BF35 | - | 40/45 | 35 -0.008 -0.015 | 22 | 33 | 18.75 | 1.75 |
| - | - | BF40 | - | 50 | 40 -0.008 -0.02 | 23 | 38 | 19.95 | 1.95 |

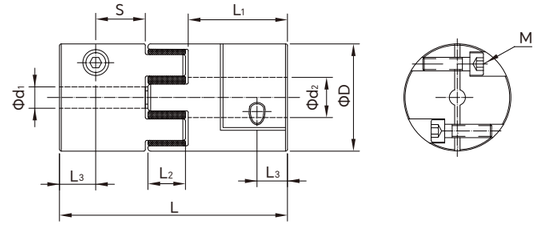


# 联轴器 / 螺母座
# COUPLING / NUT HOUSING



## 梅花 MH 系列 Coupling MH Series

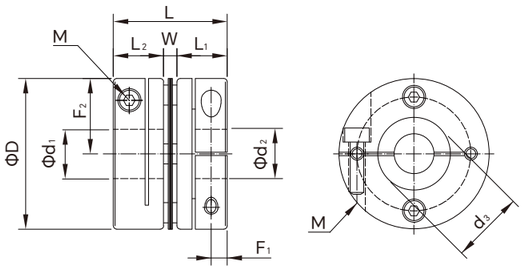





| 型号 Model No. | $d_1/d_2$ 孔径 最小 (mm) | $d_1/d_2$ 孔径 最大 (mm) | D (mm) | L (mm) | $L_1$ (mm) | $L_2$ (mm) | $L_3$ (mm) | S (mm) | 螺丝尺寸 M | 拧紧力矩 (N.m) | 额定扭矩 (N.m) | 最大扭矩 (N.m) | 最高转速 (RPM) | 惯性力矩 ($kg.m^2$) | 静态扭矩刚性 (N.m/rad) | 容许偏心 (mm) | 容许偏角 (°) | 轴向偏差 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MH-D14L22 | 3 | 6.35 | 14 | 22 | 6.5 | 9 | 3 | 3.5 | M2.5 | 1 | 1.5 | 3 | 19000 | $1.0*10^{-7}$ | 46 | 0.02 | 1 | ±0.6 |
| MH-D20L25 | 3 | 10 | 20 | 25 | 8 | 8 | 3.5 | 4.5 | M3 | 1.5 | 2.8 | 5.6 | 17000 | $1.0*10^{-6}$ | 55 | 0.02 | 1 | ±0.6 |
| MH-D20L30 | 3 | 10 | 20 | 30 | 10 | 10 | 3.5 | 6.5 | M3 | 1.5 | 2.8 | 5.6 | 17000 | $1.0*10^{-6}$ | 55 | 0.02 | 1 | ±0.6 |
| MH-D25L30 | 4 | 12 | 25 | 30 | 10 | 10 | 5 | 5 | M3 | 1.5 | 6 | 12 | 16000 | $5.2*10^{-6}$ | 63 | 0.02 | 1 | ±0.6 |
| MH-D25L35 | 4 | 12 | 25 | 35 | 12.5 | 10 | 5 | 7.5 | M3 | 1.5 | 6 | 12 | 16000 | $5.2*10^{-6}$ | 63 | 0.02 | 1 | ±0.6 |
| MH-D30L35 | 5 | 16 | 30 | 35 | 11.5 | 12 | 5 | 6.5 | M4 | 2.5 | 6.5 | 13 | 15000 | $6.2*10^{-6}$ | 72 | 0.02 | 1 | ±0.6 |
| MH-D30L42 | 5 | 16 | 30 | 42 | 15 | 12 | 5 | 10 | M4 | 2.5 | 6.5 | 13 | 15000 | $6.2*10^{-6}$ | 72 | 0.02 | 1 | ±0.6 |
| MH-D30L50 | 5 | 16 | 30 | 50 | 20 | 12 | 5 | 15 | M4 | 2.5 | 6.5 | 13 | 15000 | $6.2*10^{-6}$ | 72 | 0.02 | 1 | ±0.6 |
| MH-D35L50 | 5 | 19 | 35 | 50 | 19 | 12 | 5 | 14 | M4 | 2.5 | 15 | 30 | 14000 | $8.1*10^{-6}$ | 200 | 0.02 | 1 | ±0.6 |
| MH-D40L40 | 5 | 20 | 40 | 40 | 13 | 14 | 5 | 8 | M4 | 2.5 | 32 | 64 | 13000 | $8.1*10^{-6}$ | 260 | 0.02 | 1 | ±0.6 |
| MH-D40L50 | 5 | 22 | 40 | 50 | 16.5 | 14 | 8 | 8.5 | M5 | 5 | 32 | 64 | 13000 | $3.8*10^{-5}$ | 450 | 0.02 | 1 | ±0.6 |
| MH-D40L55 | 5 | 22 | 40 | 55 | 19.5 | 14 | 9 | 10.5 | M6 | 8 | 32 | 64 | 13000 | $3.8*10^{-5}$ | 500 | 0.02 | 1 | ±0.6 |
| MH-D40L66 | 5 | 22 | 40 | 66 | 26 | 14 | 9 | 17 | M6 | 8 | 32 | 64 | 13000 | $3.8*10^{-5}$ | 550 | 0.02 | 1 | ±0.6 |
| MH-D40L75 | 5 | 22 | 40 | 75 | 26 | 14 | 9 | 24 | M6 | 8 | 32 | 64 | 13000 | $3.8*10^{-5}$ | 600 | 0.02 | 1 | ±0.6 |
| MH-D40L85 | 5 | 22 | 40 | 85 | 35 | 15 | 9 | 24 | M6 | 8 | 32 | 64 | 13000 | $3.9*10^{-5}$ | 650 | 0.02 | 1 | ±0.6 |
| MH-D45L55 | 6 | 25 | 45 | 55 | 20.5 | 14 | 9 | 11.5 | M6 | 8 | 40 | 80 | 12000 | $5.9*10^{-5}$ | 750 | 0.02 | 1 | ±0.6 |
| MH-D45L66 | 6 | 25 | 45 | 66 | 26 | 14 | 9 | 17 | M6 | 8 | 40 | 80 | 12000 | $5.9*10^{-5}$ | 800 | 0.02 | 1 | ±0.6 |
| MH-D45L75 | 6 | 25 | 45 | 75 | 26 | 14 | 9 | 26 | M6 | 8 | 40 | 80 | 12000 | $6.9*10^{-5}$ | 825 | 0.02 | 1 | ±0.6 |
| MH-D45L80 | 6 | 25 | 45 | 80 | 32.5 | 15 | 9 | 23.5 | M6 | 8 | 40 | 80 | 12000 | $6.9*10^{-5}$ | 850 | 0.02 | 1 | ±0.6 |
| MH-D45L85 | 6 | 25 | 45 | 85 | 35 | 15 | 9 | 26 | M6 | 8 | 40 | 80 | 12000 | $6.9*10^{-5}$ | 850 | 0.02 | 1 | ±0.6 |
| MH-D55L66 | 8 | 30 | 55 | 66 | 25 | 16 | 13 | 12 | M8 | 8 | 46 | 92 | 10500 | $1.8*10^{-3}$ | 1400 | 0.02 | 1 | ±0.6 |
| MH-D55L78 | 8 | 30 | 55 | 78 | 31 | 16 | 13 | 18 | M8 | 20 | 46 | 92 | 10500 | $1.8*10^{-3}$ | 1500 | 0.02 | 1 | ±0.6 |
| MH-D55L95 | 8 | 30 | 55 | 95 | 31 | 16 | 13 | 33.5 | M8 | 20 | 46 | 92 | 10500 | $1.8*10^{-3}$ | 1550 | 0.02 | 1 | ±0.6 |
| MH-D55L110 | 8 | 30 | 55 | 110 | 46.5 | 17 | 13 | 33.5 | M8 | 20 | 46 | 92 | 10500 | $2.0*10^{-3}$ | 1600 | 0.02 | 1 | ±0.6 |
| MH-D65L80 | 10 | 38 | 65 | 80 | 31.5 | 17 | 13 | 18.5 | M8 | 20 | 110 | 220 | 8300 | $3.8*10^{-3}$ | 2600 | 0.02 | 1 | ±0.6 |
| MH-D65L90 | 10 | 38 | 65 | 90 | 36.5 | 17 | 13 | 23.5 | M8 | 20 | 110 | 220 | 8300 | $3.8*10^{-3}$ | 2800 | 0.02 | 1 | ±0.6 |
| MH-D65L110 | 10 | 38 | 65 | 110 | 46.5 | 17 | 13 | 33.5 | M8 | 20 | 110 | 220 | 8300 | $2.0*10^{-3}$ | 3000 | 0.02 | 1 | ±0.6 |
| MH-D65L130 | 10 | 38 | 65 | 130 | 56.5 | 17 | 13 | 43.5 | M8 | 20 | 110 | 220 | 8300 | $2.0*10^{-3}$ | 3200 | 0.02 | 1 | ±0.6 |
| MH-D80L90 | 14 | 45 | 80 | 90 | 35 | 20 | 15 | 20 | M10 | 40 | 135 | 270 | 7000 | $1.8*10^{-3}$ | 3200 | 0.02 | 1 | ±0.6 |
| MH-D80L114 | 14 | 45 | 80 | 114 | 47 | 20 | 15 | 32 | M10 | 40 | 135 | 270 | 7000 | $1.8*10^{-3}$ | 3500 | 0.02 | 1 | ±0.6 |
| MH-D80L130 | 14 | 45 | 80 | 130 | 55 | 20 | 15 | 32 | M10 | 40 | 135 | 270 | 7000 | $1.8*10^{-3}$ | 3500 | 0.02 | 1 | ±0.6 |
| MH-D95L126 | 16 | 55 | 95 | 126 | 52 | 22 | 20 | 32 | M12 | 75 | 260 | 520 | 6000 | $3.2*10^{-3}$ | 4600 | 0.02 | 1 | ±0.6 |
| MH-D95L150 | 16 | 55 | 95 | 150 | 64 | 22 | 20 | 44 | M12 | 75 | 260 | 520 | 6000 | $3.2*10^{-3}$ | 4600 | 0.02 | 1 | ±0.6 |
| MH-D105L140 | 19 | 65 | 105 | 140 | 58.5 | 23 | 20 | 38.5 | M12 | 75 | 430 | 860 | 5500 | $4.5*10^{-3}$ | 5800 | 0.02 | 1 | ±0.6 |

## 单膜片 SMP 系列 Single Diaphragm Coupling SMP Series






| 型号 Model No. | $d_1/d_2$ 孔径 | | D (mm) | L (mm) | $L_1$ (mm) | $L_2$ (mm) | W (mm) | $F_1$ (mm) | $d_3$ (mm) | 螺丝尺寸 M | 拧紧力矩 (N.m) | 额定扭矩 (N.m) | 最大扭矩 (N.m) | 最高转速 (RPM) | 惯性力矩 (kg·m²) | 静态扭矩刚性 (N.m/rad) | 容许偏心 (mm) | 容许偏角 (°) | 轴向偏差 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 最小 (mm) | 最大 (mm) | | | | | | | | | | | | | | | | | |
| SMP-D19L19 | 3 | 8 | 19 | 19 | 9 | 9 | 1 | 3 | 8 | M3 | 0.8 | 2 | 4 | 10000 | $6.7*10^{-7}$ | 580 | 0.02 | 1 | ±0.09 |
| SMP-D19L22 | 3 | 8 | 19 | 22 | 9 | 12 | 1 | 3 | 8 | M3 | 0.8 | 2 | 4 | 10000 | $6.7*10^{-7}$ | 580 | 0.02 | 1 | ±0.09 |
| SMP-D19L25 | 3 | 8 | 19 | 25 | 12 | 12 | 1 | 3 | 8 | M3 | 0.8 | 2 | 4 | 10000 | $6.7*10^{-7}$ | 580 | 0.02 | 1 | ±0.09 |
| SMP-D26L26 | 4 | 10 | 26 | 26 | 12 | 12 | 2 | 3.5 | 10 | M3 | 1.5 | 3.5 | 7 | 10000 | $1.8*10^{-6}$ | 1250 | 0.02 | 1 | ±0.1 |
| SMP-D26L29 | 4 | 10 | 26 | 29 | 12 | 15 | 2 | 3.5 | 10 | M3 | 1.5 | 3.5 | 7 | 10000 | $1.8*10^{-6}$ | 1250 | 0.02 | 1 | ±0.1 |
| SMP-D26L32 | 4 | 10 | 26 | 32 | 15 | 15 | 2 | 3.5 | 10 | M3 | 1.5 | 3.5 | 7 | 10000 | $1.8*10^{-6}$ | 1250 | 0.02 | 1 | ±0.1 |
| SMP-D32L29 | 4 | 15 | 32 | 29 | 13.5 | 13.5 | 2 | 3.5 | 16 | M3 | 1.5 | 5 | 10 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.14 |
| SMP-D32L32 | 4 | 15 | 32 | 32 | 13.5 | 16.5 | 2 | 3.5 | 16 | M3 | 1.5 | 5 | 10 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.14 |
| SMP-D32L35 | 4 | 15 | 32 | 35 | 16.5 | 16.5 | 2 | 3.5 | 16 | M3 | 1.5 | 5 | 10 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.14 |
| SMP-D34L32 | 4 | 14 | 34 | 32 | 15 | 15 | 2 | 4.3 | 16 | M4 | 2.5 | 6 | 12 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.18 |
| SMP-D34L37 | 4 | 14 | 34 | 37 | 15 | 20 | 2 | 4.3 | 16 | M4 | 2.5 | 6 | 12 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.18 |
| SMP-D34L42 | 4 | 14 | 34 | 42 | 20 | 20 | 2 | 4.3 | 16 | M4 | 2.5 | 6 | 12 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.18 |
| SMP-D39L34 | 6 | 19 | 39 | 34 | 15 | 15 | 4 | 4.5 | 19 | M4 | 2.5 | 8 | 16 | 10000 | $1.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| SMP-D39L39 | 6 | 19 | 39 | 39 | 15 | 20 | 4 | 4.5 | 19 | M4 | 2.5 | 8 | 16 | 10000 | $1.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| SMP-D39L44 | 6 | 19 | 39 | 44 | 20 | 20 | 4 | 4.5 | 19 | M4 | 2.5 | 8 | 16 | 10000 | $1.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| SMP-D44L35 | 8 | 22 | 44 | 35 | 15.5 | 15.5 | 4 | 4.6 | 22 | M5 | 2.5 | 10 | 19 | 10000 | $2.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| SMP-D44L40 | 8 | 22 | 44 | 40 | 15.5 | 20.5 | 4 | 4.6 | 22 | M5 | 2.5 | 10 | 19 | 10000 | $2.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| SMP-D44L45 | 8 | 22 | 44 | 45 | 20.5 | 20.5 | 4 | 4.6 | 22 | M5 | 2.5 | 10 | 19 | 10000 | $2.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| SMP-D50L41 | 8 | 26 | 50 | 41 | 18 | 18 | 5 | 5 | 26 | M5 | 7 | 18 | 36 | 10000 | $2.5*10^{-5}$ | 3700 | 0.02 | 1 | ±0.2 |
| SMP-D50L49 | 8 | 26 | 50 | 49 | 18 | 26 | 5 | 5 | 26 | M5 | 7 | 18 | 36 | 10000 | $2.5*10^{-5}$ | 3700 | 0.02 | 1 | ±0.2 |
| SMP-D50L57 | 8 | 26 | 50 | 57 | 26 | 26 | 5 | 5 | 26 | M5 | 7 | 18 | 36 | 10000 | $2.5*10^{-5}$ | 3700 | 0.02 | 1 | ±0.2 |
| SMP-D56L45 | 10 | 30 | 56 | 45 | 20 | 20 | 5 | 5.7 | 29 | M5 | 7 | 35 | 70 | 10000 | $1.0*10^{-4}$ | 8400 | 0.02 | 1 | ±0.2 |
| SMP-D56L53 | 10 | 30 | 56 | 53 | 20 | 28 | 5 | 5.7 | 29 | M5 | 7 | 35 | 70 | 10000 | $1.0*10^{-4}$ | 8400 | 0.02 | 1 | ±0.2 |
| SMP-D56L61 | 10 | 30 | 56 | 61 | 28 | 28 | 5 | 5.7 | 29 | M5 | 7 | 35 | 70 | 10000 | $1.0*10^{-4}$ | 8400 | 0.02 | 1 | ±0.2 |
| SMP-D68L54 | 12 | 35 | 68 | 54 | 24 | 24 | 6 | 6.5 | 39 | M6 | 12 | 65 | 130 | 9000 | $1.5*10^{-4}$ | 11500 | 0.02 | 1 | ±0.2 |
| SMP-D68L62 | 12 | 35 | 68 | 62 | 24 | 32 | 6 | 6.5 | 39 | M6 | 12 | 65 | 130 | 9000 | $1.5*10^{-4}$ | 11500 | 0.02 | 1 | ±0.2 |
| SMP-D68L70 | 12 | 35 | 68 | 70 | 32 | 32 | 6 | 6.5 | 39 | M6 | 12 | 65 | 130 | 9000 | $1.5*10^{-4}$ | 11500 | 0.02 | 1 | ±0.2 |
| SMP-D82L68 | 14 | 45 | 82 | 68 | 30 | 30 | 8 | 8.5 | 44 | M8 | 16 | 100 | 200 | 8000 | $1.8*10^{-4}$ | 14500 | 0.02 | 1 | ±0.2 |
| SMP-D82L78 | 14 | 45 | 82 | 78 | 30 | 40 | 8 | 8.5 | 44 | M8 | 16 | 100 | 200 | 8000 | $1.8*10^{-4}$ | 14500 | 0.02 | 1 | ±0.2 |
| SMP-D82L88 | 14 | 45 | 82 | 88 | 40 | 40 | 8 | 8.5 | 44 | M8 | 16 | 100 | 200 | 8000 | $1.8*10^{-4}$ | 14500 | 0.02 | 1 | ±0.2 |
| SMP-D94L69 | 19 | 50 | 94 | 69 | 30 | 30 | 9 | 10 | 48 | M10 | 16 | 165 | 320 | 5000 | $1.2*10^{-4}$ | 40000 | 0.02 | 1 | ±0.2 |
| SMP-D94L79 | 19 | 50 | 94 | 79 | 30 | 40 | 9 | 10 | 48 | M10 | 16 | 165 | 320 | 5000 | $1.2*10^{-4}$ | 40000 | 0.02 | 1 | ±0.2 |
| SMP-D94L89 | 19 | 50 | 94 | 89 | 40 | 40 | 9 | 10 | 48 | M10 | 16 | 165 | 320 | 5000 | $1.2*10^{-4}$ | 40000 | 0.02 | 1 | ±0.2 |
| SMP-D104L70 | 20 | 55 | 104 | 70 | 30 | 30 | 10 | 10 | 48 | M10 | 16 | 255 | 510 | 4000 | $1.8*10^{-3}$ | 80000 | 0.02 | 1 | ±0.2 |
| SMP-D104L80 | 20 | 55 | 104 | 80 | 30 | 40 | 10 | 10 | 48 | M10 | 16 | 255 | 510 | 4000 | $1.8*10^{-3}$ | 80000 | 0.02 | 1 | ±0.2 |
| SMP-D104L90 | 20 | 55 | 104 | 90 | 40 | 40 | 10 | 10 | 48 | M10 | 16 | 255 | 510 | 4000 | $1.8*10^{-3}$ | 80000 | 0.02 | 1 | ±0.2 |

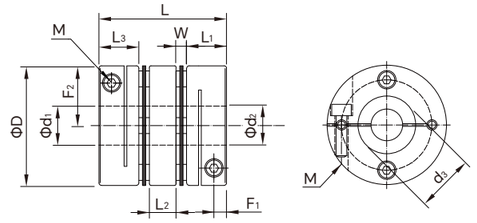






## 双膜片 DMP 系列 Double Diaphragm Coupling DMP Series

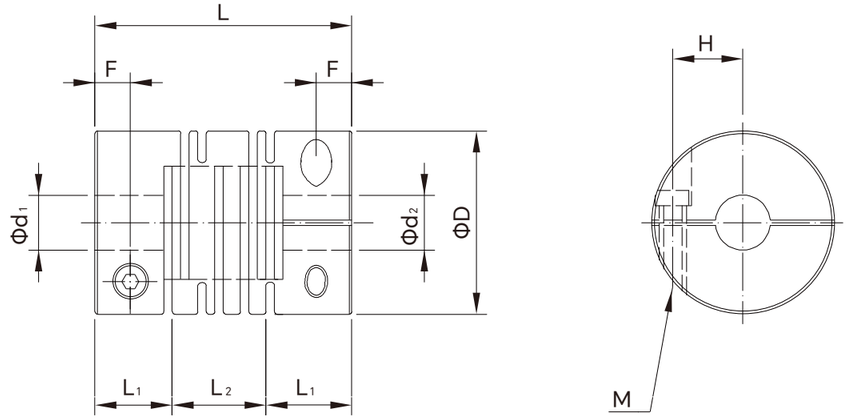





| 型号 Model No. | $d_1/d_2$ 孔径 | | D (mm) | L (mm) | $L_1$ (mm) | $L_3$ (mm) | W (mm) | $L_2$ (mm) | $d_3$ (mm) | 螺丝尺寸 M | 拧紧力矩 (N.m) | 额定扭矩 (N.m) | 最大扭矩 (N.m) | 最高转速 (RPM) | 惯性力矩 (kg·m²) | 静态扭矩刚性 (N.m/rad) | 容许偏心 (mm) | 容许偏角 (°) | 轴向偏差 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 最小 (mm) | 最大 (mm) | | | | | | | | | | | | | | | | | |
| DMP-D19L26 | 3 | 8 | 19 | 26 | 9 | 9 | 1 | 6 | 8 | M3 | 0.8 | 2 | 4 | 10000 | $6.7*10^{-7}$ | 580 | 0.02 | 1 | ±0.09 |
| DMP-D19L29 | 3 | 8 | 19 | 29 | 9 | 12 | 1 | 6 | 8 | M3 | 0.8 | 2 | 4 | 10000 | $6.7*10^{-7}$ | 580 | 0.02 | 1 | ±0.09 |
| DMP-D19L32 | 3 | 8 | 19 | 32 | 12 | 12 | 1 | 6 | 8 | M3 | 0.8 | 2 | 4 | 10000 | $6.7*10^{-7}$ | 580 | 0.02 | 1 | ±0.09 |
| DMP-D19L35 | 3 | 8 | 19 | 35 | 12 | 12 | 1 | 9 | 8 | M3 | 0.8 | 2 | 4 | 10000 | $6.7*10^{-7}$ | 580 | 0.02 | 1 | ±0.09 |
| DMP-D26L35 | 4 | 10 | 26 | 35 | 12 | 12 | 2 | 7 | 10 | M3 | 1.5 | 3.5 | 7 | 10000 | $1.8*10^{-6}$ | 1250 | 0.02 | 1 | ±0.1 |
| DMP-D26L38 | 4 | 10 | 26 | 38 | 12 | 15 | 2 | 7 | 10 | M3 | 1.5 | 3.5 | 7 | 10000 | $1.8*10^{-6}$ | 1250 | 0.02 | 1 | ±0.1 |
| DMP-D26L41 | 4 | 10 | 26 | 41 | 15 | 15 | 2 | 7 | 10 | M3 | 1.5 | 3.5 | 7 | 10000 | $1.8*10^{-6}$ | 1250 | 0.02 | 1 | ±0.1 |
| DMP-D26L44 | 4 | 10 | 26 | 44 | 15 | 15 | 2 | 10 | 10 | M3 | 1.5 | 3.5 | 7 | 10000 | $1.8*10^{-6}$ | 1250 | 0.02 | 1 | ±0.1 |
| DMP-D32L41 | 4 | 15 | 32 | 41 | 13.5 | 13.5 | 2 | 10 | 16 | M3 | 1.5 | 5 | 10 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.14 |
| DMP-D32L44 | 4 | 15 | 32 | 44 | 13.5 | 16.5 | 2 | 10 | 16 | M3 | 1.5 | 5 | 10 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.14 |
| DMP-D32L47 | 4 | 15 | 32 | 47 | 16.5 | 16.5 | 2 | 10 | 16 | M3 | 1.5 | 5 | 10 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.14 |
| DMP-D32L50 | 4 | 15 | 32 | 50 | 16.5 | 16.5 | 2 | 13 | 16 | M3 | 1.5 | 5 | 10 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.14 |
| DMP-D34L45 | 4 | 14 | 34 | 45 | 15 | 15 | 2 | 11 | 16 | M4 | 2.5 | 6 | 12 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.18 |
| DMP-D34L50 | 4 | 14 | 34 | 50 | 15 | 20 | 2 | 11 | 16 | M4 | 2.5 | 6 | 12 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.18 |
| DMP-D34L55 | 4 | 14 | 34 | 55 | 20 | 20 | 2 | 11 | 16 | M4 | 2.5 | 6 | 12 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.18 |
| DMP-D34L60 | 4 | 14 | 34 | 60 | 20 | 20 | 2 | 16 | 16 | M4 | 2.5 | 6 | 12 | 10000 | $7.2*10^{-6}$ | 1800 | 0.02 | 1 | ±0.18 |
| DMP-D39L49 | 6 | 19 | 39 | 49 | 15 | 15 | 4 | 11 | 19 | M4 | 2.5 | 8 | 16 | 10000 | $1.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| DMP-D39L54 | 6 | 19 | 39 | 54 | 15 | 20 | 4 | 11 | 19 | M4 | 2.5 | 8 | 16 | 10000 | $1.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| DMP-D39L59 | 6 | 19 | 39 | 59 | 20 | 20 | 4 | 11 | 19 | M4 | 2.5 | 8 | 16 | 10000 | $1.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| DMP-D39L64 | 6 | 19 | 39 | 64 | 20 | 20 | 4 | 16 | 19 | M4 | 2.5 | 8 | 16 | 10000 | $1.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| DMP-D44L50 | 8 | 22 | 44 | 50 | 15.5 | 15.5 | 4 | 11 | 22 | M5 | 2.5 | 18 | 36 | 10000 | $2.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| DMP-D44L55 | 8 | 22 | 44 | 55 | 15.5 | 20.5 | 4 | 11 | 22 | M5 | 2.5 | 18 | 36 | 10000 | $2.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| DMP-D44L60 | 8 | 22 | 44 | 60 | 20.5 | 20.5 | 4 | 11 | 22 | M5 | 2.5 | 18 | 36 | 10000 | $2.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| DMP-D44L65 | 8 | 22 | 44 | 65 | 20.5 | 20.5 | 4 | 16 | 22 | M5 | 2.5 | 18 | 36 | 10000 | $2.8*10^{-5}$ | 3700 | 0.02 | 1 | ±0.18 |
| DMP-D50L57 | 8 | 26 | 50 | 57 | 18 | 18 | 5 | 11 | 26 | M5 | 7 | 18 | 36 | 10000 | $2.5*10^{-5}$ | 3700 | 0.02 | 1 | ±0.2 |
| DMP-D50L65 | 8 | 26 | 50 | 65 | 18 | 26 | 5 | 11 | 26 | M5 | 7 | 18 | 36 | 10000 | $2.5*10^{-5}$ | 3700 | 0.02 | 1 | ±0.2 |
| DMP-D50L73 | 8 | 26 | 50 | 73 | 26 | 26 | 5 | 11 | 26 | M5 | 7 | 18 | 36 | 10000 | $2.5*10^{-5}$ | 3700 | 0.02 | 1 | ±0.2 |
| DMP-D50L81 | 8 | 26 | 50 | 81 | 26 | 26 | 5 | 19 | 26 | M5 | 7 | 18 | 36 | 10000 | $2.5*10^{-5}$ | 3700 | 0.02 | 1 | ±0.2 |
| DMP-D56L63 | 10 | 30 | 56 | 63 | 20 | 20 | 5 | 13 | 29 | M5 | 7 | 35 | 70 | 10000 | $1.0*10^{-4}$ | 8400 | 0.02 | 1 | ±0.2 |
| DMP-D56L71 | 10 | 30 | 56 | 71 | 20 | 28 | 5 | 13 | 29 | M5 | 7 | 35 | 70 | 10000 | $1.0*10^{-4}$ | 8400 | 0.02 | 1 | ±0.2 |
| DMP-D56L79 | 10 | 30 | 56 | 79 | 28 | 28 | 5 | 13 | 29 | M5 | 7 | 35 | 70 | 10000 | $1.0*10^{-4}$ | 8400 | 0.02 | 1 | ±0.2 |
| DMP-D56L87 | 10 | 30 | 56 | 87 | 28 | 28 | 5 | 21 | 29 | M5 | 7 | 35 | 70 | 10000 | $1.0*10^{-4}$ | 8400 | 0.02 | 1 | ±0.2 |
| DMP-D68L74 | 12 | 35 | 68 | 74 | 24 | 24 | 6 | 14 | 39 | M6 | 12 | 65 | 130 | 9000 | $1.5*10^{-4}$ | 11500 | 0.02 | 1 | ±0.2 |
| DMP-D68L82 | 12 | 35 | 68 | 82 | 24 | 32 | 6 | 14 | 39 | M6 | 12 | 65 | 130 | 9000 | $1.5*10^{-4}$ | 11500 | 0.02 | 1 | ±0.2 |
| DMP-D68L90 | 12 | 35 | 68 | 90 | 32 | 32 | 6 | 14 | 39 | M6 | 12 | 65 | 130 | 9000 | $1.5*10^{-4}$ | 11500 | 0.02 | 1 | ±0.2 |
| DMP-D68L98 | 12 | 35 | 68 | 98 | 32 | 32 | 6 | 22 | 39 | M6 | 12 | 65 | 130 | 9000 | $1.5*10^{-4}$ | 11500 | 0.02 | 1 | ±0.2 |
| DMP-D82L98 | 14 | 45 | 82 | 98 | 30 | 30 | 8 | 22 | 44 | M8 | 16 | 100 | 200 | 8000 | $1.8*10^{-4}$ | 14500 | 0.02 | 1 | ±0.2 |
| DMP-D82L108 | 14 | 45 | 82 | 108 | 30 | 40 | 8 | 22 | 44 | M8 | 16 | 100 | 200 | 8000 | $1.8*10^{-4}$ | 14500 | 0.02 | 1 | ±0.2 |
| DMP-D82L118 | 14 | 45 | 82 | 118 | 40 | 40 | 8 | 22 | 44 | M8 | 16 | 100 | 200 | 8000 | $1.8*10^{-4}$ | 14500 | 0.02 | 1 | ±0.2 |
| DMP-D82L128 | 14 | 45 | 82 | 128 | 40 | 40 | 8 | 32 | 44 | M8 | 16 | 100 | 200 | 8000 | $1.8*10^{-4}$ | 14500 | 0.02 | 1 | ±0.2 |
| DMP-D94L100 | 19 | 50 | 94 | 100 | 30 | 30 | 9 | 22 | 48 | M10 | 16 | 165 | 320 | 5000 | $1.2*10^{-4}$ | 40000 | 0.02 | 1 | ±0.2 |
| DMP-D94L110 | 19 | 50 | 94 | 110 | 30 | 40 | 9 | 22 | 48 | M10 | 16 | 165 | 320 | 5000 | $1.2*10^{-4}$ | 40000 | 0.02 | 1 | ±0.2 |
| DMP-D94L120 | 19 | 50 | 94 | 120 | 40 | 40 | 9 | 22 | 48 | M10 | 16 | 165 | 320 | 5000 | $1.2*10^{-4}$ | 40000 | 0.02 | 1 | ±0.2 |
| DMP-D94L130 | 19 | 50 | 94 | 130 | 40 | 40 | 9 | 32 | 48 | M10 | 16 | 165 | 320 | 5000 | $1.2*10^{-4}$ | 40000 | 0.02 | 1 | ±0.2 |
| DMP-D104L102 | 20 | 55 | 104 | 102 | 30 | 30 | 10 | 22 | 48 | M10 | 16 | 235 | 470 | 4000 | $1.8*10^{-3}$ | 80000 | 0.02 | 1 | ±0.2 |
| DMP-D104L112 | 20 | 55 | 104 | 112 | 30 | 40 | 10 | 22 | 48 | M10 | 16 | 235 | 470 | 4000 | $1.8*10^{-3}$ | 80000 | 0.02 | 1 | ±0.2 |
| DMP-D104L122 | 20 | 55 | 104 | 122 | 40 | 40 | 10 | 22 | 48 | M10 | 16 | 235 | 470 | 4000 | $1.8*10^{-3}$ | 80000 | 0.02 | 1 | ±0.2 |
| DMP-D104L132 | 20 | 55 | 104 | 132 | 40 | 40 | 10 | 32 | 48 | M10 | 16 | 235 | 470 | 4000 | $1.8*10^{-3}$ | 80000 | 0.02 | 1 | ±0.2 |

## 平行切线弹性 PXQ 系列 Parallel Tangent Elastic Coupling PXQ Series









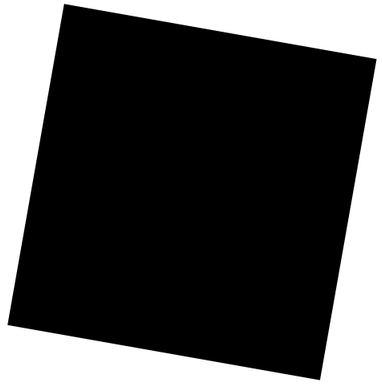
| 型号 Model No. | $d_1/d_2$ 孔径 | | D (mm) | L (mm) | $L_1$ (mm) | $L_2$ (mm) | F (mm) | H (mm) | 螺丝尺寸 M | 拧紧力矩 (N.m) | 额定扭矩 (N.m) | 最大扭矩 (N.m) | 最高转速 (RPM) | 惯性力矩 ($kg·m^2$) | 静态扭矩刚性 (N.m/rad) | 容许偏心 (mm) | 容许偏角 (°) | 轴向偏差 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 最小 (mm) | 最大 (mm) | | | | | | | | | | | | | | | | |
| PXQ-D12L18.5 | 3 | 5 | 12 | 18.5 | 6 | 6.5 | 2.75 | 3.25 | M2 | 1.5 | 0.5 | 1 | 10000 | $8.8*10^{-6}$ | 110 | 0.1 | 1.5 | ±0.2 |
| PXQ-D16L23 | 3 | 6 | 16 | 23 | 8 | 7 | 3.75 | 4.25 | M3 | 1.5 | 0.5 | 1 | 9500 | $9.1*10^{-6}$ | 110 | 0.1 | 1.5 | ±0.2 |
| PXQ-D20L20 | 4 | 10 | 20 | 20 | 7.5 | 5 | 3.75 | 6.25 | M3 | 1.5 | 1 | 2 | 7600 | $8.8*10^{-6}$ | 110 | 0.1 | 1.5 | ±0.2 |
| PXQ-D20L26 | 4 | 10 | 20 | 26 | 7.5 | 11 | 3.75 | 6.25 | M3 | 1.5 | 1 | 2 | 7600 | $9.1*10^{-6}$ | 100 | 0.1 | 1.5 | ±0.2 |
| PXQ-D25L25 | 5 | 12 | 25 | 25 | 10 | 5 | 5 | 7.5 | M3 | 1.5 | 2 | 4 | 6100 | $2.3*10^{-6}$ | 165 | 0.15 | 1.5 | ±0.2 |
| PXQ-D25L31 | 5 | 12 | 25 | 31 | 10 | 11 | 5 | 7.5 | M3 | 1.5 | 2 | 4 | 6100 | $2.6*10^{-6}$ | 165 | 0.15 | 1.5 | ±0.2 |
| PXQ-D28L38 | 6 | 14 | 28 | 38 | 13 | 12 | 6.5 | 7.5 | M4 | 3.5 | 3 | 6 | 5600 | $1.5*10^{-4}$ | 190 | 0.15 | 1.5 | ±0.2 |
| PXQ-D32L32 | 6 | 15 | 32 | 32 | 13 | 6 | 6.5 | 9.5 | M4 | 3.5 | 4 | 8 | 5000 | $1.8*10^{-4}$ | 228 | 0.15 | 1.5 | ±0.2 |
| PXQ-D32L41 | 6 | 15 | 32 | 41 | 13 | 15 | 6.5 | 9.5 | M4 | 3.5 | 4 | 8 | 5000 | $7.2*10^{-6}$ | 228 | 0.15 | 1.5 | ±0.2 |
| PXQ-D38L41 | 8 | 16 | 38 | 41 | 13 | 15 | 6.5 | 12.5 | M5 | 3.5 | 7 | 14 | 4200 | $2.7*10^{-6}$ | 280 | 0.2 | 1.5 | ±0.2 |
| PXQ-D40L50 | 8 | 20 | 40 | 50 | 19.5 | 11 | 9.75 | 10.25 | M5 | 3.5 | 8 | 16 | 3800 | $2.7*10^{-5}$ | 340 | 0.2 | 1.5 | ±0.2 |
| PXQ-D40L56 | 8 | 20 | 40 | 56 | 19.5 | 17 | 9.75 | 10.25 | M5 | 3.5 | 8 | 16 | 3800 | $9.0*10^{-5}$ | 340 | 0.2 | 1.5 | ±0.2 |
| PXQ-D50L50 | 10 | 28 | 50 | 50 | 19.5 | 11 | 9.75 | 15.25 | M6 | 6 | 20 | 40 | 3100 | $2.8*10^{-4}$ | 700 | 0.2 | 1.5 | ±0.2 |
| PXQ-D50L71 | 10 | 28 | 50 | 71 | 19.5 | 32 | 9.75 | 15.25 | M6 | 6 | 20 | 40 | 3100 | $2.8*10^{-4}$ | 700 | 0.2 | 1.5 | ±0.2 |
| PXQ-D63L71 | 12 | 35 | 63 | 71 | 27 | 17 | 9.75 | 21.75 | M8 | 8 | 35 | 70 | 3000 | $2.8*10^{-4}$ | 850 | 0.2 | 1.5 | ±0.2 |
| PXQ-D63L90 | 12 | 35 | 63 | 90 | 27 | 36 | 9.75 | 21.75 | M8 | 8 | 35 | 70 | 3000 | $2.8*10^{-4}$ | 850 | 0.2 | 1.5 | ±0.2 |

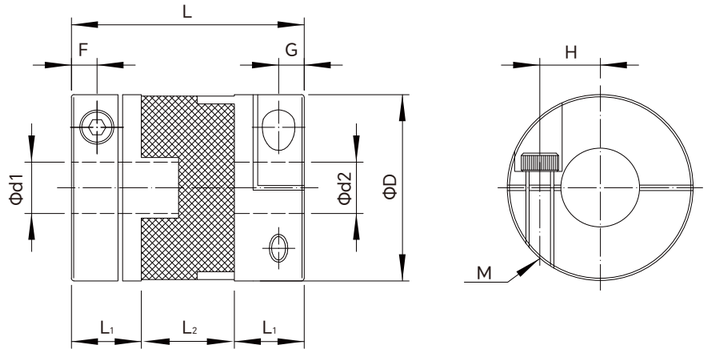






## 十字 SZHK 系列 Cross-shaped Coupling SZHK Series



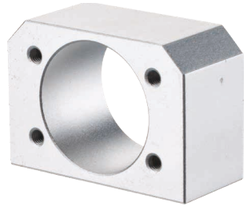


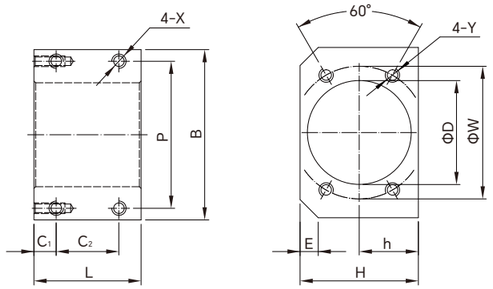




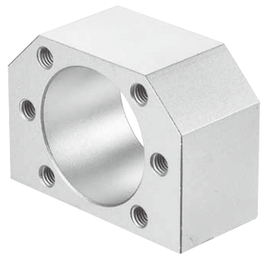
| 型号 Model No. | $d_1/d_2$ 孔径 | | D (mm) | L (mm) | $L_1$ (mm) | $L_2$ (mm) | F (mm | H (mm) | 螺丝尺寸 M | 拧紧力矩 (N.m) | 额定扭矩 (N.m) | 最大扭矩 (N.m) | 最高转速 (RPM) | 惯性力矩 ($kg·m^2$) | 静态扭矩刚性 (N.m/rad) | 容许偏心 (mm) | 容许偏角 (°) | 轴向偏差 (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 最小 (mm) | 最大 (mm) | | | | | | | | | | | | | | | | |
| SZHK-D20*25 | 4 | 10 | 20 | 25 | 9.5 | 6 | 3 | 7 | M3 | 1.5 | 1.5 | 3 | 7000 | $1.5*10^{-7}$ | 60 | 1.2 | 3 | ±0.2 |
| SZHK-D20*33 | 4 | 10 | 20 | 33 | 10 | 12 | 3 | 7 | M3 | 1.5 | 1.5 | 3 | 7000 | $1.5*10^{-7}$ | 60 | 1.2 | 3 | ±0.2 |
| SZHK-D25*28 | 5 | 12 | 25 | 28 | 10.5 | 7 | 3 | 9.5 | M3 | 1.5 | 2 | 4 | 6100 | $3.2*10^{-6}$ | 130 | 1.6 | 3 | ±0.2 |
| SZHK-D25*39 | 5 | 12 | 25 | 39 | 11 | 17 | 3 | 9.5 | M3 | 1.5 | 2 | 4 | 6100 | $3.2*10^{-6}$ | 130 | 1.6 | 3 | ±0.2 |
| SZHK-D32*45 | 6 | 15 | 32 | 45 | 12.5 | 20 | 5 | 11 | M4 | 3.5 | 5 | 9 | 4800 | $2.6*10^{-5}$ | 275 | 2 | 3 | ±0.2 |
| SZHK-D34*35 | 6 | 17 | 34 | 35 | 13 | 9 | 5 | 11 | M4 | 3.5 | 5 | 9 | 4800 | $2.8*10^{-5}$ | 275 | 2 | 3 | ±0.2 |
| SZHK-D40*50 | 8 | 20 | 40 | 50 | 15.5 | 19 | 5.5 | 14.5 | M5 | 8 | 10 | 20 | 3600 | $4.2*10^{-5}$ | 520 | 2.7 | 3 | ±0.2 |
| SZHK-D44*46 | 8 | 22 | 44 | 46 | 15.5 | 15 | 5.5 | 16.5 | M5 | 8 | 13 | 26 | 3600 | $4.5*10^{-5}$ | 520 | 3 | 3 | ±0.2 |
| SZHK-D50*58 | 10 | 26 | 50 | 58 | 19.5 | 19 | 6.5 | 18.5 | M6 | 13 | 19 | 37 | 3000 | $1.1*10^{-4}$ | 800 | 3 | 3 | ±0.2 |
| SZHK-D55*58 | 10 | 28 | 55 | 58 | 20.5 | 17 | 6.5 | 21 | M6 | 13 | 25 | 50 | 3000 | $1.3*10^{-4}$ | 1200 | 3.2 | 3 | ±0.2 |
| SZHK-D63*71 | 14 | 35 | 63 | 71 | 24.5 | 22 | 8 | 23.5 | M8 | 28 | 33 | 65 | 2600 | $3.5*10^{-4}$ | 1200 | 3.5 | 3 | ±0.2 |
| SZHK-D70*77 | 16 | 37 | 70 | 77 | 26.5 | 24 | 8 | 27 | M8 | 28 | 56 | 110 | 2500 | $3.5*10^{-4}$ | 1200 | 4 | 3 | ±0.2 |

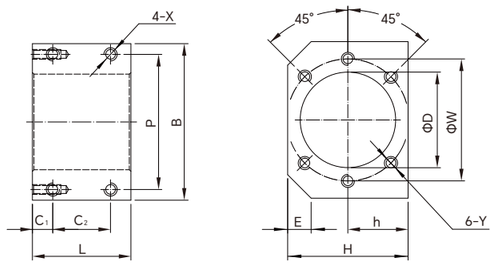
## 铝制螺母座 BSG/DSG 系列 Aluminum Nut Housing BSG/DSG Series






| 型号 Model No. | 配对丝杆 Paired Model | D | B | H | h | E | L | $C_1$ | $C_2$ | P | X | W | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BSG1616 | 1616 | 32 | 55 | 40 | 20 | 6 | 27 | 6 | 15 | 45 | M4 | 42 | M4 |
| BSG2020 | 2020 | 39 | 66 | 47 | 23.5 | 8 | 35 | 7 | 20 | 56 | M5 | 50 | M5 |
| BSG2525 | 2525 | 47 | 80 | 55 | 27.5 | 9 | 34 | 7.5 | 20 | 68 | M6 | 60 | M6 |
| BSG3232 | 3232 | 58 | 95 | 66 | 33 | 10 | 55 | 10 | 35 | 82 | M8 | 74 | M8 |





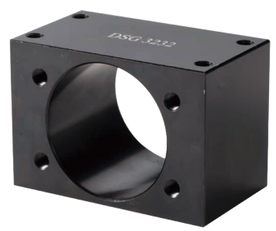

| 型号 Model No. | 配对丝杆 Paired Model | D | B | H | h | E | L | $C_1$ | $C_2$ | P | X | W | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DSG12H | 1204<br>1205<br>1210 | 22.1<br>24.1 | 50 | 35 | 15 | / | 36 | 6 | 24 | 35 | M5 | 32 | M4 |
| DSG16H | 1605<br>1610<br>1616<br>1620 | 28 | 52 | 40 | 20 | 12 | 40 | 8 | 24 | 40 | M5 | 38 | M5 |
| DSG20H | 2005<br>2010<br>2020 | 36 | 62 | 44 | 22 | 12 | 40 | 8 | 24 | 48 | M6 | 47 | M6 |
| DSG25H | 2505<br>2510<br>2520<br>2525 | 40 | 66 | 48 | 24 | 13 | 40 | 8 | 24 | 50 | M6 | 51 | M6 |
| DSG32H | 3205<br>3210<br>3220<br>3232 | 50 | 86 | 62 | 31 | 17 | 40 | 8 | 24 | 66 | M8 | 65 | M8 |
| DSG40H | 4005<br>4010<br>4020<br>4040 | 63 | 100 | 70 | 35 | 19 | 40 | 8 | 24 | 80 | M8 | 78 | M8 |
| DSG50H | 5010<br>5020<br>5050 | 75 | 116 | 85 | 42.5 | 22 | 46 | 10 | 26 | 92 | M8 | 93 | M8 |

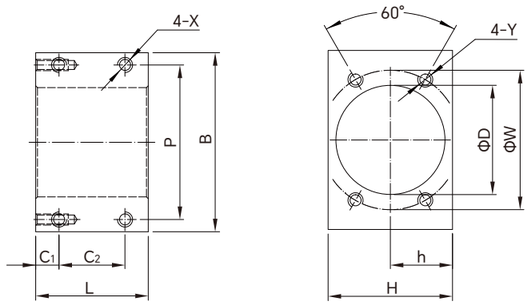




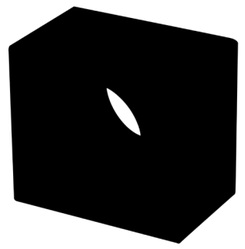


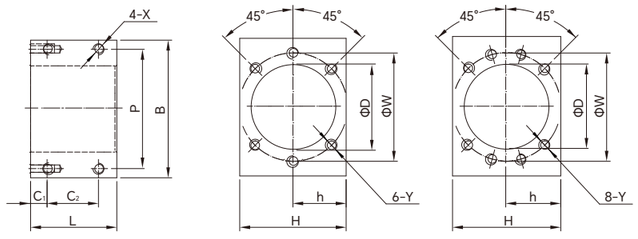
## 钢制螺母座 DSG/DSG 系列 Steel Nut Housing DSG/DSG Series





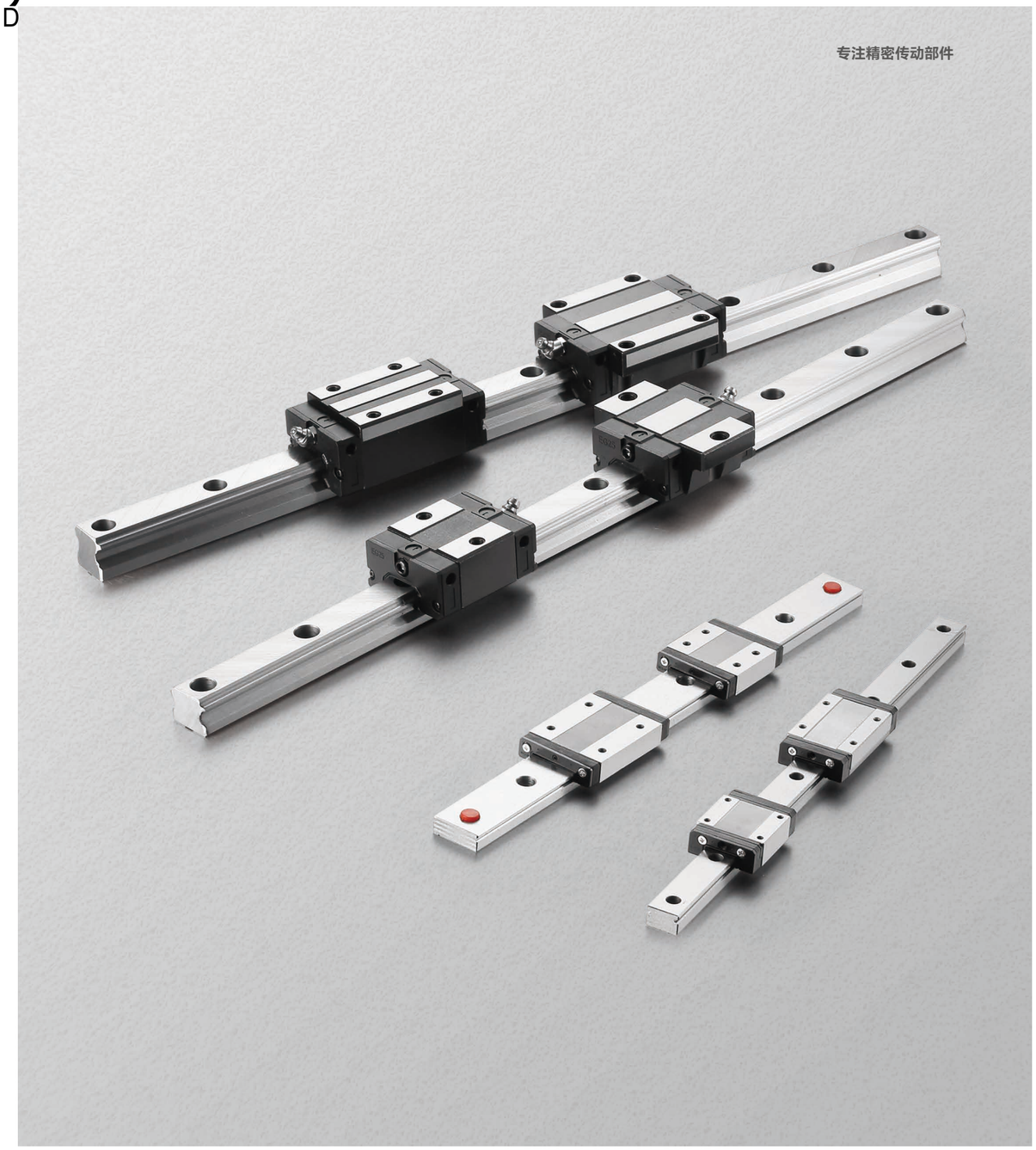

| 型号 Model No. | 配对丝杆 Paired Model | D | B | H | h | L | $C_1$ | $C_2$ | P | X | W | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DSG 1616 | 1616 | 32 | 55 | 40 | 20 | 27 | 6 | 15 | 45 | M4 | 42 | M4 |
| DSG 2020 | 2020 | 39 | 66 | 47 | 23.5 | 35 | 7.5 | 20 | 56 | M5 | 50 | M5 |
| DSG 2525 | 2525 | 47 | 80 | 55 | 27.5 | 34 | 7 | 20 | 68 | M6 | 60 | M6 |
| DSG 3232 | 3232 | 58 | 95 | 66 | 33 | 55 | 10 | 35 | 82 | M8 | 74 | M8 |
| DSG 4040 | 4040 | 73 | 120 | 90 | 45 | 60 | 10 | 40 | 100 | M10 | 93 | M10 |
| DSG 5050 | 5050 | 90 | 128 | 104 | 52.5 | 68 | 9.3 | 50 | 110 | M12 | 112 | M12 |






DSG16H-DSG32H　　DSG40H-DSG50H

| 型号 Model No. | 配对丝杆 Paired Model | D | B | H | h | L | $C_1$ | $C_2$ | P | X | W | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DSG16H | 1605<br>1610<br>1616<br>1620 | 28 | 52 | 40 | 20 | 40 | 8 | 24 | 40 | M5 | 38 | M5 |
| DSG 20H | 2005<br>2010<br>2020 | 36 | 62 | 44 | 22 | 40 | 8 | 24 | 48 | M6 | 47 | M6 |
| DSG 25H | 2505<br>2510<br>2520<br>2525 | 40 | 66 | 48 | 24 | 40 | 8 | 24 | 50 | M6 | 51 | M6 |
| DSG 32H | 3205<br>3210<br>3220<br>3232 | 50 | 86 | 62 | 31 | 40 | 8 | 24 | 66 | M8 | 65 | M8 |
| DSG 40H | 4005<br>4010<br>4020<br>4040 | 63 | 100 | 80 | 40 | 60 | 10 | 40 | 78 | M8 | 78 | M8 |
| DSG 50H | 5005<br>5010<br>5020<br>5050 | 75 | 120 | 91 | 45.5 | 60 | 10 | 40 | 93 | M10 | 93 | M10 |




# 线性滑轨
# LINEAR GUIDEWAY



## 线性滑轨选型 Linear Guideway Selection

### 非互换性线性滑轨产品型号 Non-interchangeable type:

HG W 25 C A E 2 R 1600 E ZA P II + DD/E2/RC

- HG 系列 Series
- 滑块型式 Block Type
  - W: 法兰型 Flange Type
  - H: 四方型 Square Type
  - L: 四方型 ( 低 )Square Type (Low)
- 尺寸 Model size:
  15,20,25,30,35,45,55,65
- 负荷型式 Load Type
  - C: 重负荷 Heavy Load
  - H: 超重负荷 Super Heavy Load
- 滑块固定方式 Block Mounting Type
  - A: 上锁式 Mounting From Top
  - B: 下锁式 Bottom
  - C: 上或下锁式 Top or Bottom
- E: 滑块特殊加工 Special Block
  无记号：滑块无特殊加工
  None: Standard Rail
- 单支滑轨组装的滑块数
  No.of Blocks per Rail
- 滑轨固定方式 Block Mounting Type
  - R: 上锁式 Mounting From Top
  - T: 下锁式 Bottom
- 滑轨长度 Rail Length(mm)
- E: 滑轨特殊加工 Special Rail
  无记号：滑轨无特殊加工
  None: Standard Rail
- 预压 Preload Cod:
  Z0, ZA, ZB
- 精度 Precision Code: C,H,P,SP,UP
- 单轴滑轨数 I No.of rails per axis set I
- 防尘配件 [2] Dust Protection[2]
- E2: 自润式 Self-Lubricant
  SE: 金属端盖式 Metallic End Cap
- RC:
  强化型螺栓盖
  Reinforced Cap

**注：**

1. 单轴滑轨数若只使用一支滑轨则不写俩支标记为 II，三支标记为III，以此类推。
2. 防尘配件中无记号为防尘标准配件刮油片加防尘片。
   ZZ 为刮油片加防尘片加金属刮板。
   KK 为双刮油片加防尘片加金属刮板。
   DD 为双刮油片加防尘片。
3. 滑块型式 L 为四方形 H 之低组装式滑块，其组合高度与同尺寸之法兰型一致。

**Note:**

1.The roman numerals express a matched set of rails.
2.No symbol indicates standard protection (end seal and bottom seal)
ZZ : End seaL bottom sealand scraper
KK: Double seals, bottom seal and scraper
DD: Double seals and bottom seal
3.Block type HGL is the low profile design of HGH (square type), the assembled height is same as HGW (flange type) in same size.

### 互换型滑轨产品型号 Model Number of HG Rail:

HG R 25 R 1200 E P RC

- HG 系列 Series
- 单出滑轨 Interchangeable Rail
- 尺寸 Model size:
  15,20,25,30,35,45,55,65
- 滑轨固定方式 Rail Mounting Type
  - R: 上锁式 Mounting From Top
  - T: 下锁式 Bottom
- 滑轨长度 Rail Length（mm）
- E: 滑轨特殊加工 Special Rail
  无记号：滑轨无特殊加工
  None: Standard Rail
- 精度 Precision Code: C, H, P
- RC:
  强化型螺栓盖 Reinforced Cap

### 互换性线性滑轨产品型号 Interchangeable type:

HG W 25 C A E ZA P + ZZ/E2

- HG 系列 Series
- 滑块型式 Block Type
  - W: 法兰型 Flange Type
  - H: 四方型 Square Type
  - L: 四方型 ( 低 ) Square Type (Low)
- 尺寸 Model size:
  15,20,25,30,35,45,55,65
- 负荷型式 Load Type
  C: 重负荷 Heavy Load　H: 超重负荷 Super Heavy Load
- 滑块固定方式 Block Mounting Type
  A: 上锁式 Mounting From Top　B: 下锁式 Bottom　C: 上或下锁式 Top or Bottom
- E: 滑块特殊加工 Special Block
  无记号：滑块无特殊加工
  None: Standard Block
- 预压 Preload Cod: Z0, ZA
- 精度 Precision Code: C, H, P
- 防尘配件 [2] Dust Protection[2]
- E2: 自润式 Self-Lubricant
  SE: 金属端盖式 Metallic End Cap

# 线性滑轨预压及精度说明 Linear Guideway Preload & Precision Instruction

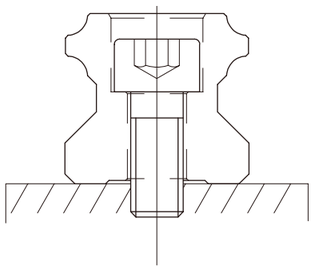
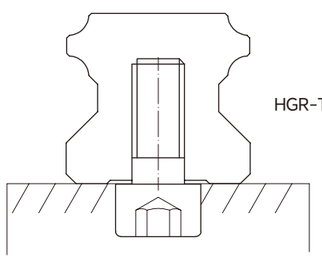
## 预压等级 Preload Classes

HG 系列线性滑轨提供三种标准预压，可根据用途选择适当预压力。
offers three classes of standard preload for various applications and conditions.

| 预压等级 Class | 标准 Code | 预压力 Preload | 使用条件 Condition | 适用范围 Examples of Application |
|---|---|---|---|---|
| 无预压 Light Preload | Z0 | 0~0.02C | 负荷方向固定且冲击小 精度要求低 Certain load direction, low impact, low precision required | 搬送装置，自动包装机，自动化产业机械， 一般工业机械的 XY 轴，焊接机，熔断机，工具交换装置 Transportation devices, auto-packing machines, X-Y axis for general industrial machines, welding machines, welders |
| 中预压 Medium Preload | ZA | 0.05C~0.07C | 轻负荷且要求高精度 High precision required | 一般工业机械的 Z 轴，放电加工机，NC 车床，精密 XY 平台， 测定器，机械加工中心，立式加工中心，工业用机器人， 自动涂装机，各种高速材料供给装置 Machining centers, Z axis for general industrial machines, EDM, NC lathes, Precision X-Y tables, measuring equipment |
| 重预压 Heavy Preload | ZB | 0.10C~0.12C | 刚性要求，且有振动， 冲击之使用环境 High rigidity required, with vibration and impact | 机械加工中心，磨床，NC 车床，立式或卧式铣床， 机床的 Z 轴，重切削加工机 Machining centers, grinding machines, NC lathes, horizontal and vertical milling machines, Z axis of machine tools, Heavy cutting machines |

| 等级 Class | 互换性线轨 ( 单出件 ) Interchangeable Guideway | 非互换性线轨 ( 组合件 ) Non-Interchangeable Guideway |
|---|---|---|
| 预压等级 Preload classes | Z0,ZA | Z0,ZA,ZB |

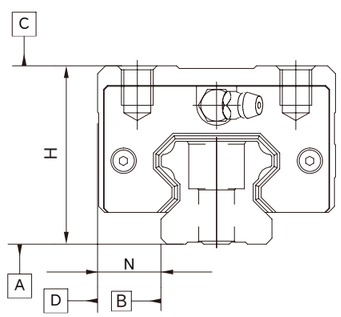
除了一般上锁式螺栓孔滑轨外，欧必帝亦提供下锁式螺丝孔滑轨，方便客户安装使用。
Besides the standard top mounting type, OBD also offers the bottom mounting type of rails to customers.

| 上锁式螺栓孔 Mounting from Top | 下锁式螺丝孔 Mounting from bottom |
|---|---|
|  |   |

## 精度等级 Acouracy Classes

HG 系列线性滑轨的精度，分为普通、高、精密、超精密、超高精密级共五级，客户可依设备精度需求选用精度。

Thp accuracy of HG series can be classified into normal (C), high (H), precision (P), super precision (SP), ultra precision (UP), five classes. Please choose the class by referring the accuracy of applied equipment.








线性滑轨预压及精度说明 Linear Guideway Preload & Precision Instruction

## 单出件精度表 Accuracy Standards

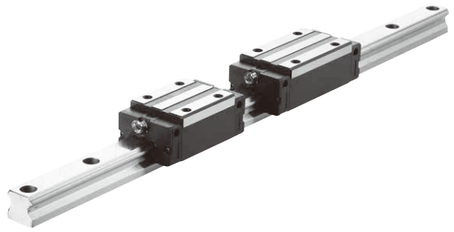
单位 Unit: mm

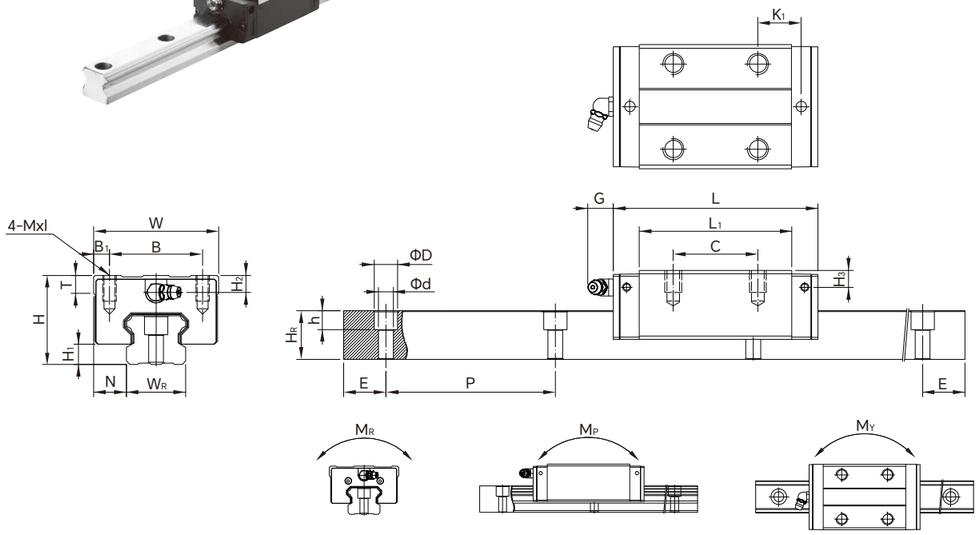
| 型号 Item | HG-15,20 | | |
|---|---|---|---|
| 精度等级 Accuracy Classes | 普通级 Normal (C) | 高级 High (H) | 精密级 Precision (P) |
| 高度 H 的容许尺寸误差 Dimensional tolerance of height H | ± 0.1 | ± 0.03 | ± 0.015 |
| 宽度 N 的容许尺寸误差 Dimensional tolerance of width N | ± 0.1 | ± 0.03 | ± 0.015 |
| 成对高度 H 的相互误差 Variation of height H | 0.02 | 0.01 | 0.006 |
| 成对宽度 N 的相互误差 Variation of width N | 0.02 | 0.01 | 0.006 |
| 滑块 C 面对滑轨 A 面的行走平行度 Running parallelism of block surface C to surface A | 行走平行度 See Table | | |
| 滑块 D 面对滑轨 B 面的行走平行度 Running parallelism of block surface D to surface B | 行走平行度 SeeTable | | |
| 型号 Item | HG-25,30,35 | | |
| 精度等级 Accuracy Classes | 普通级 Normal (C) | 高级 High (H) | 精密级 Precision (P) |
| 高度 H 的容许尺寸误差 Dimensional tolerance of height H | ± 0.1 | ± 0.04 | ± 0.02 |
| 宽度 N 的容许尺寸误差 Dimensional tolerance of width N | ± 0.1 | ± 0.04 | ± 0.02 |
| 成对高度 H 的相互误差 Variation of height H | 0.02 | 0.015 | 0.007 |
| 成对宽度 N 的相互误差 Variation of width N | 0.03 | 0.015 | 0.007 |
| 滑块 C 面对滑轨 A 面的行走平行度 Running parallelism of block surface C to surface A | 行走平行度 See Table | | |
| 滑块 D 面对滑轨 B 面的行走平行度 Running parallelism of block surface D to surface B | 行走平行度 SeeTable | | |
| 型号 Item | HG-45,55 | | |
| 精度等级 Accuracy Classes | 普通级 Normal (C) | 高级 High (H) | 精密级 Precision (P) |
| 高度 H 的容许尺寸误差 Dimensional tolerance of height H | ± 0.1 | ± 0.05 | ± 0.025 |
| 宽度 N 的容许尺寸误差 Dimensional tolerance of width N | ± 0.1 | ± 0.05 | ± 0.025 |
| 成对高度 H 的相互误差 Variation of height H | 0.03 | 0.015 | 0.007 |
| 成对宽度 N 的相互误差 Variation of width N | 0.03 | 0.02 | 0.01 |
| 滑块 C 面对滑轨 A 面的行走平行度 Running parallelism of block surface C to surface A | 行走平行度 See Table | | |
| 滑块 D 面对滑轨 B 面的行走平行度 Running parallelism of block surface D to surface B | 行走平行度 SeeTable | | |

## 行走平行度精度 Acouracy of Running Parallelism

| 滑轨长度 (mm) Rail Length (mm) | 精度等级 Accuracy (μm) | | | | |
|---|---|---|---|---|---|
| | C | H | P | SP | UP |
| 0~100 | 12 | 7 | 3 | 2 | 2 |
| 100~200 | 14 | 9 | 4 | 2 | 2 |
| 200~300 | 15 | 10 | 5 | 3 | 2 |
| 300~500 | 17 | 12 | 6 | 3 | 2 |
| 500~700 | 20 | 13 | 7 | 4 | 2 |
| 700~900 | 22 | 15 | 8 | 5 | 3 |
| 900~1,100 | 24 | 16 | 9 | 6 | 3 |
| 1,100~1,500 | 26 | 18 | 11 | 7 | 4 |
| 1,500~1,900 | 28 | 20 | 13 | 8 | 4 |
| 1,900~2,500 | 31 | 22 | 15 | 10 | 5 |
| 2,500~3,100 | 33 | 25 | 18 | 11 | 6 |
| 3,100~3,600 | 36 | 27 | 20 | 14 | 7 |
| 3,600~4,000 | 37 | 28 | 21 | 15 | 7 |

## 高组装 HGH-CA/HA 系列 High Assembly HGH-CA/HA Series






| 型号 Model No. | 组件尺寸 Dimensions of Assembly (mm) | | | | | | | 滑块尺寸 Dimensions of Block (mm) | | | | | | | 滑轨尺寸 Dimensions of Rail (mm) | | | | | | | 滑轨固定螺栓尺寸 Mounting Bolt for Rail | 基本动额定负荷 Basic Dynamic Load Rating | 基本静额定负荷 Basic Static Load Rating | 容许静力矩 Static Rated Moment (kgf.m) | | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | $H_1$ | N | W | B | $B_1$ | C | $L_1$ | L | $K_1$ | G | Mxl | T | $H_2$ | $H_3$ | $W_R$ | $H_R$ | D | h | d | P | E | (mm) | C(kN) | $C_0$(kN) | $M_R$ kN-m | $M_P$ kN-m | $M_Y$ kN-m | 滑块 block kg | 滑轨 Rail kg/m |
| HGH15CA | 28 | 4.3 | 9.5 | 34 | 26 | 4 | 26 | 39.4 | 61.4 | 10 | 5.3 | M4×5 | 6 | 7.95 | 7.7 | 15 | 15 | 7.5 | 5.3 | 4.5 | 60 | 20 | M4×16 | 11.38 | 16.97 | 0.12 | 0.10 | 0.10 | 0.18 | 1.45 |
| HGH20CA | 30 | 4.6 | 12 | 44 | 32 | 6 | 36 | 50.5 | 77.5 | 12.25 | 12 | M5×6 | 8 | 6 | 7 | 20 | 17.5 | 9.5 | 8.5 | 6 | 60 | 20 | M5×16 | 17.75 | 27.76 | 0.27 | 0.20 | 0.20 | 0.30 | 2.21 |
| HGH20HA | | | | | | | 50 | 65.2 | 92.2 | 12.6 | | | | | | | | | | | | | | 21.18 | 35.9 | 0.35 | 0.35 | 0.35 | 0.39 | |
| HGH25CA | 40 | 5.5 | 12.5 | 48 | 35 | 6.5 | 35 | 58 | 84 | 16.8 | 12 | M6×8 | 8 | 10 | 9 | 23 | 22 | 11 | 9 | 7 | 60 | 20 | M6×20 | 26.48 | 36.49 | 0.42 | 0.33 | 0.33 | 0.51 | 3.21 |
| HGH25HA | | | | | | | 50 | 78.6 | 104.6 | 19.6 | | | | | | | | | | | | | | 32.75 | 49.44 | 0.56 | 0.57 | 0.57 | 0.69 | |
| HGH30CA | 45 | 6 | 16 | 60 | 40 | 10 | 40 | 70 | 97.4 | 20.25 | 12 | M8×10 | 8.5 | 9.5 | 13.8 | 28 | 26 | 14 | 12 | 9 | 80 | 20 | M8×25 | 38.74 | 52.19 | 0.66 | 0.53 | 0.53 | 0.88 | 4.47 |
| HGH30HA | | | | | | | 60 | 93 | 120.4 | 21.75 | | | | | | | | | | | | | | 47.27 | 69.19 | 0.88 | 0.92 | 0.92 | 1.16 | |
| HGH35CA | 55 | 7.5 | 18 | 70 | 50 | 10 | 50 | 80 | 112.4 | 20.6 | 12 | M8×12 | 10.2 | 16 | 19.6 | 34 | 29 | 14 | 12 | 9 | 80 | 20 | M8×25 | 49.52 | 69.19 | 1.16 | 0.81 | 0.81 | 1.45 | 6.30 |
| HGH35HA | | | | | | | 72 | 105.8 | 138.2 | 22.5 | | | | | | | | | | | | | | 60.21 | 91.63 | 1.54 | 1.40 | 1.40 | 1.92 | |
| HGH45CA | 70 | 9.5 | 20.5 | 86 | 60 | 13 | 60 | 97 | 139.4 | 23 | 12.9 | M10×17 | 16 | 18.5 | 30.5 | 45 | 38 | 20 | 17 | 14 | 105 | 22.5 | M12×35 | 77.57 | 102.71 | 1.98 | 1.55 | 1.55 | 2.73 | 10.41 |
| HGH45HA | | | | | | | 80 | 128.8 | 171.2 | 28.9 | | | | | | | | | | | | | | 94.54 | 136.46 | 2.63 | 2.68 | 2.68 | 3.61 | |
| HGH55CA | 80 | 13 | 23.5 | 100 | 75 | 12.5 | 75 | 117.7 | 166.7 | 27.35 | 12.9 | M12×18 | 17.5 | 22 | 29 | 53 | 44 | 23 | 20 | 16 | 120 | 30 | M14×45 | 114.44 | 148.33 | 3.69 | 2.64 | 2.64 | 4.17 | 15.08 |
| HGH55HA | | | | | | | 95 | 155.8 | 204.8 | 36.4 | | | | | | | | | | | | | | 139.35 | 196.2 | 4.88 | 4.57 | 4.57 | 5.49 | |
| HGH65CA | 90 | 15 | 31.5 | 126 | 76 | 25 | 70 | 144.2 | 200.2 | 43.1 | 12.9 | M16×20 | 25 | 15 | 15 | 63 | 53 | 26 | 22 | 18 | 150 | 35 | M16×50 | 163.63 | 215.33 | 6.65 | 4.27 | 4.27 | 7.00 | 21.18 |
| HGH65HA | | | | | | | 120 | 203.6 | 259.6 | 47.8 | | | | | | | | | | | | | | 208.36 | 303.13 | 9.38 | 7.38 | 7.38 | 9.82 | |

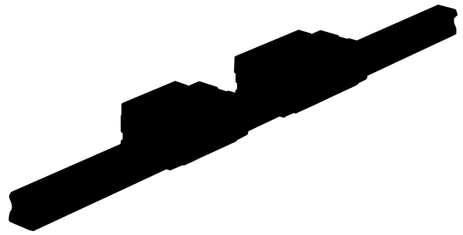
注 : 1kgf=9.81N

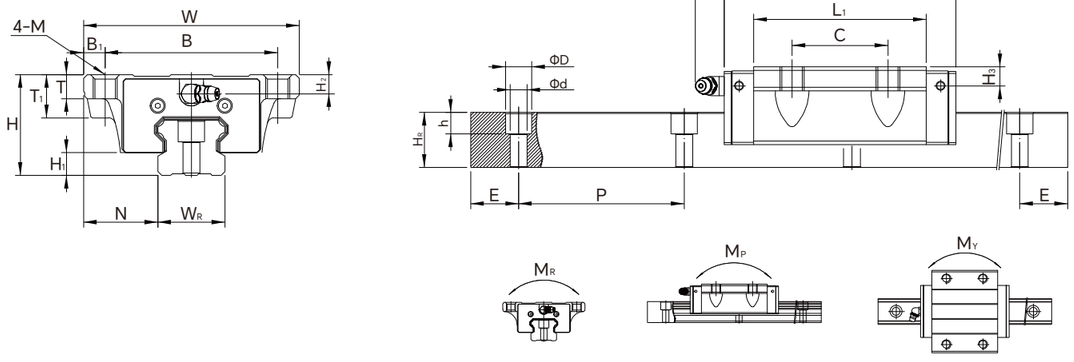






## 高组装 HGW-CC/HC 系列 High Assembly HGW-CC/HC Series

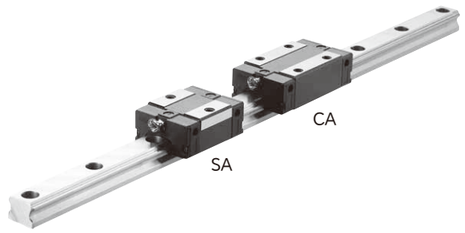


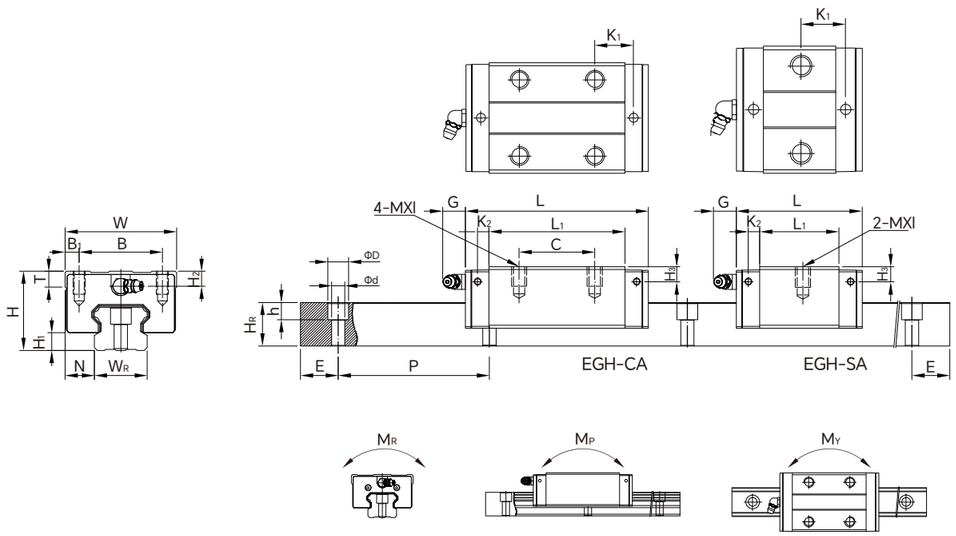



| 型号 Model No. | 组件尺寸 Dimensions of Assembly (mm) | | | | | | | 滑块尺寸 Dimensions of Block (mm) | | | | | | | | 滑轨尺寸 Dimensions of Rail (mm) | | | | | | | 滑轨固定螺栓尺寸 Mounting Bolt for Rail | 基本动额定负荷 Basic Dynamic Load Rating | 基本静额定负荷 Basic Static Load Rating | 容许静力矩 Static Rated Moment (kgf.m) | | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | $H_1$ | N | W | B | $B_1$ | C | $L_1$ | L | $K_1$ | G | M | T | $T_1$ | $H_2$ | $H_3$ | $W_R$ | $H_R$ | D | h | d | P | E | (mm) | C(kN) | $C_0$(kN) | $M_R$ kN-m | $M_P$ kN-m | $M_Y$ kN-m | 滑块 block kg | 滑轨 Rail kg/m |
| HGW15CC | 24 | 4.3 | 16 | 47 | 38 | 4.5 | 30 | 39.5 | 60.5 | 8 | 5.3 | M5 | 6 | 8.9 | 3.95 | 3.7 | 15 | 15 | 7.5 | 5.3 | 4.5 | 60 | 20 | M4×16 | 11.38 | 16.97 | 0.12 | 0.10 | 0.10 | 0.17 | 1.45 |
| HGW20CC | 30 | 4.6 | 21.5 | 63 | 53 | 5 | 40 | 50.5 | 76.7 | 10.25 | 12 | M6 | 8 | 10 | 6 | 6 | 20 | 17.5 | 9.5 | 8.5 | 6 | 60 | 20 | M5×16 | 17.75 | 27.76 | 0.27 | 0.20 | 0.20 | 0.40 | 2.21 |
| HGW20HC | | | | | | | | 65.2 | 91.4 | 17.6 | | | | | | | | | | | | | | | 21.18 | 35.90 | 0.35 | 0.35 | 0.35 | 0.52 | |
| HGW25CC | 36 | 5.5 | 23.5 | 70 | 57 | 6.5 | 45 | 58 | 84 | 10.7 | 12 | M8 | 8 | 14 | 6 | 5 | 23 | 22 | 11 | 9 | 7 | 60 | 20 | M6×20 | 26.48 | 36.49 | 0.42 | 0.33 | 0.33 | 0.59 | 3.21 |
| HGW25HC | | | | | | | | 78.6 | 104.6 | 21 | | | | | | | | | | | | | | | 32.75 | 49.44 | 0.56 | 0.57 | 0.57 | 0.80 | |
| HGW30CC | 42 | 6 | 31 | 90 | 72 | 9 | 52 | 70 | 98.4 | 14.25 | 12 | M10 | 8.5 | 16 | 6.5 | 10.8 | 28 | 26 | 14 | 12 | 9 | 80 | 20 | M8×25 | 38.74 | 52.19 | 0.66 | 0.53 | 0.53 | 1.09 | 4.47 |
| HGW30HC | | | | | | | | 93 | 121.4 | 25.75 | | | | | | | | | | | | | | | 47.27 | 69.16 | 0.88 | 0.92 | 0.92 | 1.44 | |
| HGW35CC | 48 | 7.5 | 33 | 100 | 82 | 9 | 62 | 80 | 112.4 | 14.6 | 12 | M10 | 10.1 | 18 | 9 | 12.6 | 34 | 29 | 14 | 12 | 9 | 80 | 20 | M8×25 | 49.52 | 69.16 | 1.16 | 0.81 | 0.81 | 1.56 | 6.30 |
| HGW35HC | | | | | | | | 105.8 | 138.2 | 27.5 | | | | | | | | | | | | | | | 60.21 | 91.63 | 1.54 | 1.40 | 1.40 | 2.06 | |
| HGW45CC | 60 | 9.5 | 37.5 | 120 | 100 | 10 | 80 | 97 | 137.4 | 13 | 12.9 | M12 | 15.1 | 22 | 8.5 | 20.5 | 45 | 38 | 20 | 17 | 14 | 105 | 22.5 | M12×35 | 77.57 | 102.71 | 1.98 | 1.55 | 1.55 | 2.79 | 10.41 |
| HGW45HC | | | | | | | | 128.8 | 169.2 | 28.9 | | | | | | | | | | | | | | | 94.54 | 136.46 | 2.63 | 2.68 | 2.68 | 3.69 | |
| HGW55CC | 70 | 13 | 43.5 | 140 | 116 | 12 | 95 | 117.7 | 166.7 | 17.35 | 12.9 | M14 | 17.5 | 26.5 | 12 | 19 | 53 | 44 | 23 | 20 | 16 | 120 | 30 | M14×45 | 114.44 | 148.33 | 3.69 | 2.64 | 2.64 | 4.52 | 15.08 |
| HGW55HC | | | | | | | | 155.8 | 204.8 | 36.4 | | | | | | | | | | | | | | | 139.35 | 196.20 | 4.88 | 4.57 | 4.57 | 5.96 | |
| HGW65CC | 90 | 15 | 53.5 | 170 | 142 | 14 | 110 | 144.2 | 200.2 | 23.1 | 12.9 | M16 | 25 | 37.5 | 15 | 15 | 63 | 53 | 26 | 22 | 18 | 150 | 35 | M16×50 | 163.63 | 215.33 | 6.65 | 4.27 | 4.27 | 9.17 | 21.18 |
| HGW65HC | | | | | | | | 203.6 | 259.6 | 52.8 | | | | | | | | | | | | | | | 208.36 | 303.13 | 9.38 | 7.38 | 7.38 | 12.89 | |

注 : 1kgf=9.81N

## 低组装 EGH-CA /SA 系列 Low Assembly EGH-CA /SA Series




| 型号 Model No. | 组件尺寸 Dimensions of Assembly (mm) | | | 滑块尺寸 Dimensions of Block (mm) | | | | | | | | | | | | 滑轨尺寸 Dimensions of Rail (mm) | | | | | | | 滑轨固定螺栓尺寸 Mounting Bolt for Rail | 基本动额定负荷 Basic Dynamic Load Rating | 基本静额定负荷 Basic Static Load Rating | 容许静力矩 Static Rated Moment(kgf.m) | | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | $H_1$ | N | W | B | $B_1$ | C | $L_1$ | L | K1 | $K_2$ | G | Mxl | T | $H_2$ | $H_3$ | $W_R$ | $H_R$ | D | h | d | P | E | (mm) | C(kN) | $C_0$[kN] | $M_R$ kN-m | $M_P$ kN-m | $M_Y$ kN-m | 滑块 block kg | 滑轨 Rail kg/m |
| EGH15SA | 24 | 4.5 | 9.5 | 34 | 26 | 4 | – | 23.1 | 41.1 | 14.8 | 3.5 | 5.7 | M4x6 | 6 | 5.5 | 6 | 15 | 12.5 | 7.5 | 5.3 | 4.5 | 60 | 20 | M4x16 | 5.35 | 9.40 | 0.08 | 0.04 | 0.04 | 0.09 | 1.25 |
| EGH15CA | | | | | | | 26 | 39.8 | 57.8 | 10.15 | | | | | | | | | | | | | | | 7.83 | 16.19 | 0.13 | 0.10 | 0.10 | 0.15 | |
| EGH20SA | 28 | 6 | 11 | 42 | 32 | 5 | – | 29 | 51.2 | 18.75 | 4.15 | 12 | M5x7 | 7.5 | 6 | 6 | 20 | 15.5 | 9.5 | 8.5 | 6 | 60 | 20 | M5x16 | 7.23 | 12.74 | 0.13 | 0.06 | 0.06 | 0.15 | 2.08 |
| EGH20CA | | | | | | | 32 | 48.1 | 70.3 | 12.3 | | | | | | | | | | | | | | | 10.31 | 21.13 | 0.22 | 0.16 | 0.16 | 0.24 | |
| EGH25SA | 33 | 7 | 12.5 | 48 | 35 | 6.5 | – | 35.5 | 59.7 | 21.9 | 4.55 | 12 | M6x9 | 8 | 8 | 8 | 23 | 18 | 11 | 9 | 7 | 60 | 20 | M6x20 | 11.40 | 19.50 | 0.23 | 0.12 | 0.12 | 0.25 | 2.67 |
| EGH25CA | | | | | | | 35 | 59 | 83.2 | 16.15 | | | | | | | | | | | | | | | 16.27 | 32.40 | 0.38 | 0.32 | 0.32 | 0.41 | |
| EGH30SA | 42 | 10 | 16 | 60 | 40 | 10 | – | 41.5 | 71.9 | 26.75 | 6 | 12 | M8x12 | 9 | 8 | 9 | 28 | 23 | 14 | 12 | 9 | 80 | 20 | M8x25 | 16.42 | 28.10 | 0.40 | 0.21 | 0.21 | 0.45 | 4.35 |
| EGH30CA | | | | | | | 40 | 70 | 100.4 | 21.05 | | | | | | | | | | | | | | | 23.70 | 47.46 | 0.68 | 0.55 | 0.55 | 0.76 | |
| EGH35SA | 48 | 11 | 18 | 70 | 50 | 10 | – | 45 | 75 | 28.5 | 7 | 12 | M8x12 | 10 | 8.5 | 8.5 | 34 | 27.5 | 14 | 12 | 9 | 80 | 20 | M8×25 | 22.66 | 37.38 | 0.56 | 0.31 | 0.31 | 0.66 | 6.14 |
| EGH35CA | | | | | | | 50 | 78 | 108 | 20 | | | | | | | | | | | | | | | 33.35 | 64.84 | 0.98 | 0.69 | 0.69 | 1.13 | |

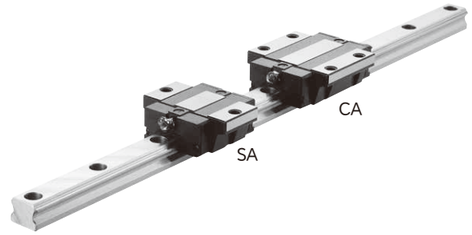
注 : 1kgf=9.81N

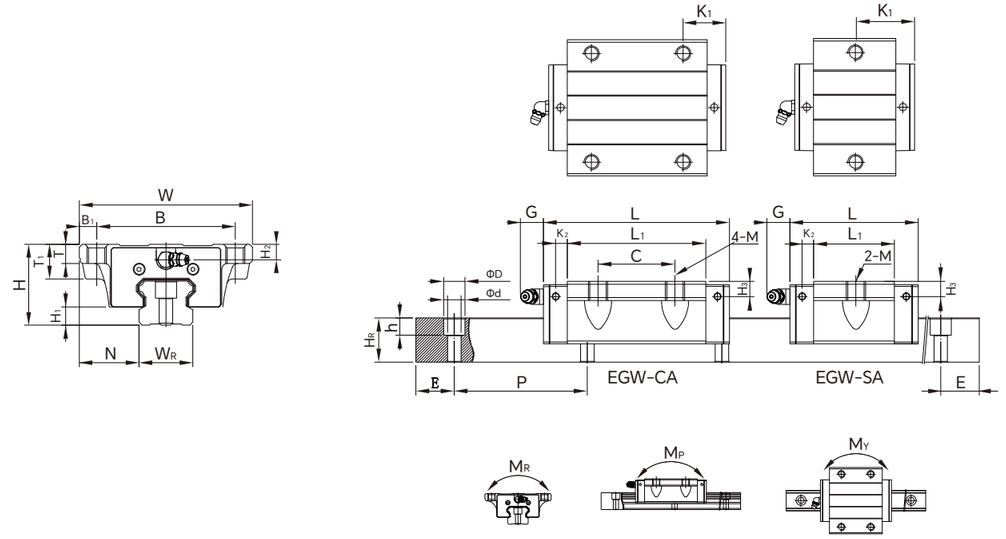






## 低组装 EGW-CA / SA 系列 Low Assembly EGH-CA /SA Series

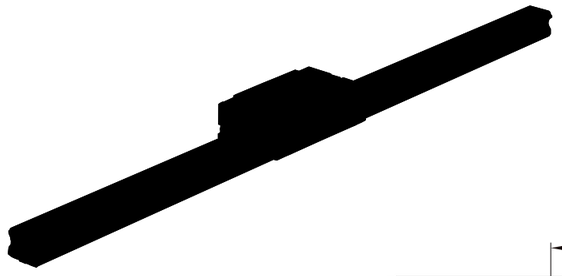


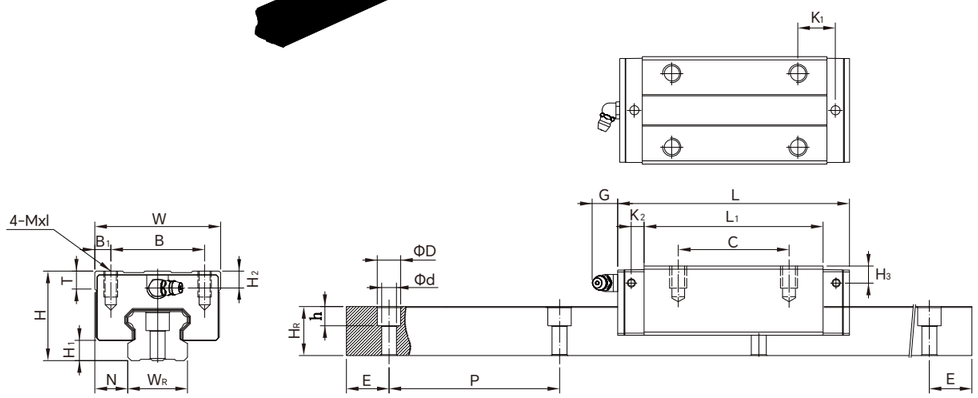




| 型号 Model No. | 组件尺寸 Dimensions of Assembly (mm) | | | 滑块尺寸 Dimensions of Block (mm) | | | | | | | | | | | | | | 滑轨尺寸 Dimensions of Rail (mm) | | | | | | | | 滑轨固定螺栓尺寸 Mounting Bolt for Rail | 基本动额定负荷 Basic Dynamic Load Rating | 基本静额定负荷 Basic Static Load Rating | 容许静力矩 Static Rated Moment(kgf.m) | | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | $H_1$ | N | W | B | $B_1$ | C | $L_1$ | L | $K_1$ | $K_2$ | G | M | T | $T_1$ | $H_2$ | $H_3$ | $W_R$ | $H_R$ | D | h | d | P | E | (mm) | C(kN) | $C_0$(kN) | $M_R$ kN-m | $M_P$ kN-m | $M_Y$ kN-m | 滑块 block kg | 滑轨 Rail kg/m |
| EGW15SA | 24 | 4.5 | 18.5 | 52 | 41 | 5.5 | – | 23.1 | 41.1 | 14.8 | 3.5 | 5.7 | M5 | 5 | 7 | 5.5 | 6 | 15 | 12.5 | 7.5 | 5.3 | 4.5 | 60 | 20 | M4x16 | 5.35 | 9.40 | 0.08 | 0.04 | 0.04 | 0.12 | 1.25 |
| EGW15CA | | | | | | | 26 | 39.8 | 57.8 | 10.15 | | | | | | | | | | | | | | | | 7.83 | 16.19 | 0.13 | 0.10 | 0.10 | 0.21 | |
| EGW20SA | 28 | 6 | 19.5 | 59 | 49 | 5 | – | 29 | 51.2 | 18.75 | 4.15 | 12 | M6 | 7 | 9 | 6 | 6 | 20 | 15.5 | 9.5 | 8.5 | 6 | 60 | 20 | M5x16 | 7.23 | 12.74 | 0.13 | 0.06 | 0.06 | 0.19 | 2.08 |
| EGW20CA | | | | | | | 32 | 48.1 | 70.3 | 12.3 | | | | | | | | | | | | | | | | 10.31 | 21.13 | 0.22 | 0.16 | 0.16 | 0.32 | |
| EGW25SA | 33 | 7 | 25 | 73 | 60 | 6.5 | – | 35.5 | 59.7 | 21.9 | 4.55 | 12 | M8 | 7.5 | 10 | 8 | 8 | 23 | 18 | 11 | 9 | 7 | 60 | 20 | M6x20 | 11.40 | 19.50 | 0.23 | 0.12 | 0.12 | 0.35 | 2.67 |
| EGW25CA | | | | | | | 35 | 59 | 83.2 | 16.15 | | | | | | | | | | | | | | | | 16.27 | 32.40 | 0.38 | 0.32 | 0.32 | 0.59 | |
| EGW30SA | 42 | 10 | 31 | 90 | 72 | 9 | – | 41.5 | 71.9 | 26.75 | 6 | 12 | M10 | 7 | 10 | 8 | 9 | 28 | 23 | 14 | 12 | 9 | 80 | 20 | M8x25 | 16.42 | 28.10 | 0.40 | 0.21 | 0.21 | 0.62 | 4.35 |
| EGW30CA | | | | | | | 40 | 70 | 100.4 | 21.05 | | | | | | | | | | | | | | | | 23.70 | 47.46 | 0.68 | 0.55 | 0.55 | 1.04 | |
| EGW35SA | 48 | 11 | 33 | 100 | 82 | 9 | – | 45 | 75 | 28.5 | 7 | 12 | M10 | 10 | 13 | 8.5 | 8.5 | 34 | 27.5 | 14 | 12 | 9 | 80 | 20 | M8x25 | 22.66 | 37.38 | 0.56 | 0.31 | 0.31 | 0.84 | 6.14 |
| EGW35CA | | | | | | | 50 | 78 | 108 | 20 | | | | | | | | | | | | | | | | 33.35 | 64.84 | 0.98 | 0.69 | 0.69 | 1.45 | |

注 : 1kgf=9.81N

## 高组装（低）HGL-CA/HA 系列 High Assembly (Low) HGL-CA/HA Series





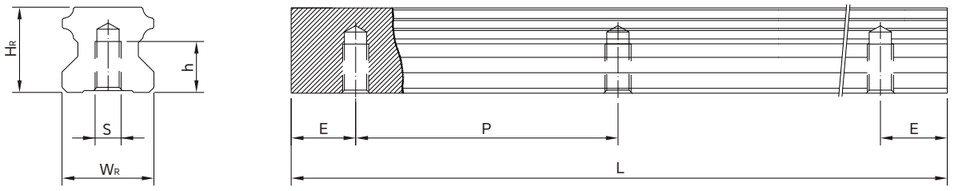

| 型号 Model No. | 组件尺寸 Dimensions of Assembly (mm) | | | 滑块尺寸 Dimensions of Block (mm) | | | | | | | | | | | | 滑轨尺寸 Dimensions of Rail (mm) | | | | | | | 滑轨固定螺栓尺寸 Mounting Bolt for Rail | 基本动额定负荷 Basic Dynamic Load Rating | 基本静额定负荷 Basic Static Load Rating | 容许静力矩 Static Rated Moment (kgf.m) | | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | $H_1$ | N | W | B | $B_1$ | C | $L_1$ | L | $K_1$ | $K_2$ | G | MxI | T | $H_2$ | $H_3$ | $W_R$ | $H_R$ | D | h | d | P | E | (mm) | C[kN] | $C_0$(kN) | $M_R$ kN-m | $M_P$ kN-m | $M_Y$ kN-m | 滑块 block kg | 滑轨 Rail kg/m |
| HGL15CA | 24 | 4.3 | 9.5 | 34 | 26 | 4 | 26 | 39.5 | 61.4 | 10 | 4.85 | 5.3 | M4x4 | 6 | 3.95 | 3.7 | 15 | 15 | 7.5 | 5.3 | 4.5 | 60 | 20 | M4x16 | 11.38 | 16.97 | 0.12 | 0.10 | 0.10 | 0.14 | 1.45 |
| HGL25CA | 36 | 5.5 | 12.5 | 48 | 35 | 6.5 | 35 | 58 | 84 | 15.7 | 6 | 12 | M6x6 | 8 | 6 | 5 | 23 | 22 | 11 | 9 | 7 | 60 | 20 | M6x20 | 26.48 | 36.49 | 0.42 | 0.33 | 0.33 | 0.42 | 3.21 |
| HGL25HA | | | | | | | 50 | 78.6 | 104.6 | 18.5 | | | | | | | | | | | | | | | 32.75 | 49.44 | 0.56 | 0.57 | 0.57 | 0.57 | |
| HGL30CA | 42 | 6 | 16 | 60 | 40 | 10 | 40 | 70 | 98.4 | 20.25 | 6 | 12 | M8x10 | 8.5 | 6.5 | 10.8 | 28 | 26 | 14 | 12 | 9 | 80 | 20 | M8x25 | 38.74 | 52.19 | 0.66 | 0.53 | 0.53 | 0.78 | 4.47 |
| HGL30HA | | | | | | | 60 | 93 | 121.4 | 21.75 | | | | | | | | | | | | | | | 47.27 | 69.16 | 0.88 | 0.92 | 0.92 | 1.03 | |
| HGL35CA | 48 | 7.5 | 18 | 70 | 50 | 10 | 50 | 80 | 112.4 | 20.6 | 7 | 12 | M8x12 | 10.2 | 9 | 12.6 | 34 | 29 | 14 | 12 | 9 | 80 | 20 | M8x25 | 49.52 | 69.16 | 1.16 | 0.81 | 0.81 | 1.14 | 6.30 |
| HGL35HA | | | | | | | 72 | 105.8 | 138.2 | 22.5 | | | | | | | | | | | | | | | 60.21 | 91.63 | 1.54 | 1.40 | 1.40 | 1.52 | |
| HGL45CA | 60 | 9.5 | 20.5 | 86 | 60 | 13 | 60 | 97 | 137.4 | 23 | 10 | 12.9 | M10x17 | 16 | 8.5 | 20.5 | 45 | 38 | 20 | 17 | 14 | 105 | 22.5 | M12x35 | 77.57 | 102.71 | 1.98 | 1.55 | 1.55 | 2.08 | 10.41 |
| HGL45HA | | | | | | | 80 | 128.8 | 169.2 | 28.9 | | | | | | | | | | | | | | | 94.54 | 136.46 | 2.63 | 2.68 | 2.68 | 2.75 | |
| HGL55CA | 70 | 13 | 23.5 | 100 | 75 | 12.5 | 75 | 117.7 | 166.7 | 27.35 | 11 | 12.9 | M12x18 | 17.5 | 12 | 19 | 53 | 44 | 23 | 20 | 16 | 120 | 30 | M14x45 | 114.44 | 148.33 | 3.69 | 2.64 | 2.64 | 3.25 | 15.08 |
| HGL55HA | | | | | | | 95 | 155.8 | 204.8 | 36.4 | | | | | | | | | | | | | | | 139.35 | 196.2 | 4.88 | 4.57 | 4.57 | 4.27 | |

注 : 1kgf=9.81N



## 高组装下锁式 HGR-T 系列 High Assembly Bottom Lock HGR-T Series

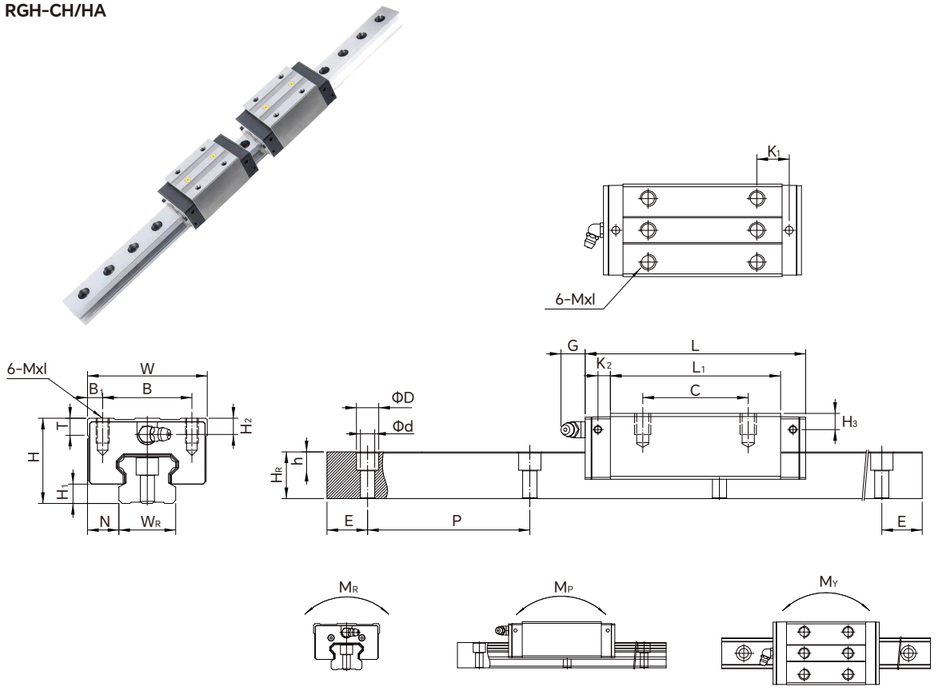





| 型号 Model No. | 滑轨尺寸 Dimensions of Rail (mm) | | | | | | 重量 Weight |
|---|---|---|---|---|---|---|---|
| | $W_R$ | $H_R$ | S | h | P | E | (kg/m) |
| HGR15T | 15 | 15 | M5x 0.8P | 8 | 60 | 20 | 1.48 |
| HGR20T | 20 | 17.5 | M6x1P | 10 | 60 | 20 | 2.29 |
| HGR25T | 23 | 22 | M6x1P | 12 | 60 | 20 | 3.35 |
| HGR30T | 28 | 26 | M8x1.25P | 15 | 80 | 20 | 4.67 |
| HGR35T | 34 | 29 | M8x1.25P | 17 | 80 | 20 | 6.51 |
| HGR45T | 45 | 38 | M12x1.75P | 24 | 105 | 22.5 | 10.87 |
| HGR55T | 53 | 44 | M14x2P | 24 | 120 | 30 | 15.67 |
| HGR65T | 63 | 53 | M20x2.5P | 30 | 150 | 35 | 21.73 |

## 滚柱型 RGH-CA/HA 系列 Roller Type RGH-CA/HA Series

RGH-CH/HA



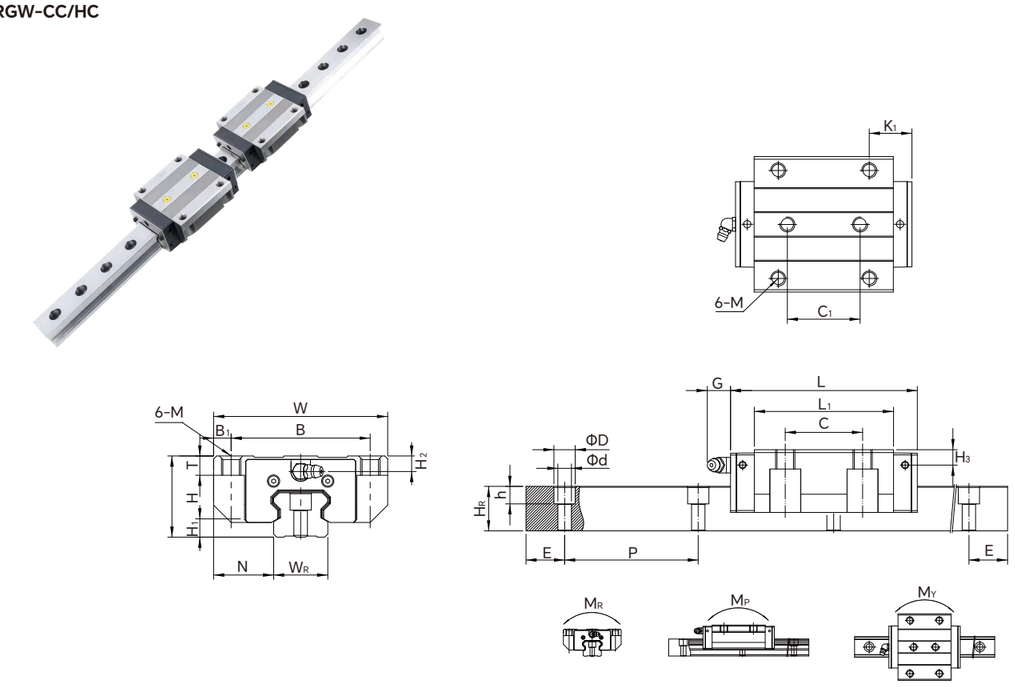

| 型号 Model No. | 组件尺寸 Dimensions of Assembly (mm) | | | 滑块尺寸 Dimensions of Block (mm) | | | | | | | | | | | | 滑轨尺寸 Dimensions of Rail (mm) | | | | | | | 滑轨固定螺栓尺寸 Mounting Bolt for Rail | 基本动额定负荷 Basic Dynamic Load Rating | 基本静额定负荷 Basic Static Load Rating | 容许静力矩 Static Rated Moment(kgf.m) | | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | $H_1$ | N | W | B | $B_1$ | C | $L_1$ | L | $K_1$ | $K_2$ | G | Mxl | T | $H_2$ | $H_3$ | $W_R$ | $H_R$ | D | h | d | P | E | (mm) | C(KN) | $C_0$(KN) | $M_R$ KN-m | $M_P$ KN-m | $M_Y$ KN-m | 滑块 block kg | 滑轨 Rail kg/m |
| RGH15CA | 28 | 4 | 9.5 | 34 | 26 | 4 | 26 | 45 | 68 | 13.4 | 4.7 | 5.3 | M4x8 | 6 | 7.6 | 10.1 | 15 | 16.5 | 7.5 | 5.7 | 4.5 | 30 | 20 | M4x16 | 11.3 | 24 | 0.311 | 0.173 | 0.173 | 0.20 | 1.8 |
| RGH20CA | 34 | 5 | 12 | 44 | 32 | 6 | 36 | 57.5 | 86 | 15.8 | 6 | 5.3 | M5x8 | 8 | 8.3 | 8.3 | 20 | 21 | 9.5 | 8.5 | 6 | 30 | 20 | M5x20 | 21.3 | 46.7 | 0.647 | 0.46 | 0.46 | 0.40 | 2.76 |
| RGH20HA | | | | | | | 50 | 77.5 | 106 | 18.8 | | | | | | | | | | | | | | | 26.9 | 63 | 0.872 | 0.837 | 0.837 | 0.53 | |
| RGH25CA | 40 | 5.5 | 12.5 | 48 | 35 | 6.5 | 35 | 64.5 | 97.9 | 20.75 | 7.25 | 12 | M6x8 | 9.5 | 10.2 | 10 | 23 | 23.6 | 11 | 9 | 7 | 30 | 20 | M6x20 | 27.7 | 57.1 | 0.758 | 0.605 | 0.605 | 0.61 | 3.08 |
| RGH25HA | | | | | | | 50 | 81 | 114.4 | 21.5 | | | | | | | | | | | | | | | 33.9 | 73.4 | 0.975 | 0.991 | 0.991 | 0.75 | |
| RGH30CA | 45 | 6 | 16 | 60 | 40 | 10 | 40 | 71 | 109.8 | 23.5 | 8 | 12 | M8x10 | 9.5 | 9.5 | 10.3 | 28 | 28 | 14 | 12 | 9 | 40 | 20 | M8x25 | 39.1 | 82.1 | 1.445 | 1.06 | 1.06 | 0.90 | 4.41 |
| RGH30HA | | | | | | | 60 | 93 | 131.8 | 24.5 | | | | | | | | | | | | | | | 48.1 | 105 | 1.846 | 1.712 | 1.712 | 1.16 | |
| RGH35CA | 55 | 6.5 | 18 | 70 | 50 | 10 | 50 | 79 | 124 | 22.5 | 10 | 12 | M8x12 | 12 | 16 | 19.6 | 34 | 30.2 | 14 | 12 | 9 | 40 | 20 | M8x25 | 57.9 | 105.2 | 2.17 | 1.44 | 1.44 | 1.57 | 6.06 |
| RGH35HA | | | | | | | 72 | 106.5 | 151.5 | 25.25 | | | | | | | | | | | | | | | 73.1 | 142 | 2.93 | 2.6 | 2.6 | 2.06 | |
| RGH45CA | 70 | 8 | 20.5 | 86 | 60 | 13 | 60 | 106 | 153.2 | 31 | 10 | 12.9 | M10x17 | 16 | 20 | 24 | 45 | 38 | 20 | 17 | 14 | 52.5 | 22.5 | M12x35 | 92.6 | 178.8 | 4.52 | 3.05 | 3.05 | 3.18 | 9.97 |
| RGH45HA | | | | | | | 80 | 139.8 | 187 | 37.9 | | | | | | | | | | | | | | | 116 | 230.9 | 6.33 | 5.47 | 5.47 | 4.13 | |
| RGH55CA | 80 | 10 | 23.5 | 100 | 75 | 12.5 | 75 | 125.5 | 183.7 | 37.75 | 12.5 | 12.9 | M12x18 | 17.5 | 22 | 27.5 | 53 | 44 | 23 | 20 | 16 | 60 | 30 | M14x45 | 130.5 | 252 | 8.01 | 5.4 | 5.4 | 4.89 | 13.98 |
| RGH55HA | | | | | | | 95 | 173.8 | 232 | 51.9 | | | | | | | | | | | | | | | 167.8 | 348 | 11.15 | 10.25 | 10.25 | 6.68 | |
| RGH65CA | 90 | 12 | 31.5 | 126 | 76 | 25 | 70 | 160 | 232 | 60.8 | 15.8 | 12.9 | M16x20 | 25 | 15 | 15 | 63 | 53 | 26 | 22 | 18 | 75 | 35 | M16x50 | 213 | 411.6 | 16.20 | 11.59 | 11.59 | 8.89 | 20.22 |
| RGH65HA | | | | | | | 120 | 223 | 295 | 67.3 | | | | | | | | | | | | | | | 275.3 | 572.7 | 22.55 | 22.17 | 22.17 | 12.13 | |

注 : 1kgf=9.81N



## 滚柱型 RGW-CC/HC 系列 Roller Type RGW-CC/HC Series

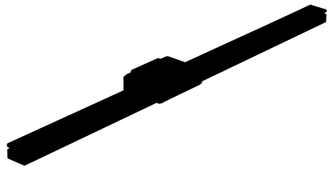
RGW-CC/HC



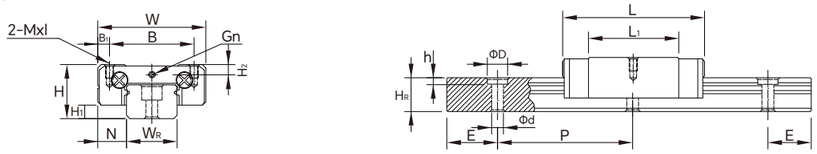

| 型号 Model No. | 组件尺寸 Dimensions of Assembly (mm) | | | 滑块尺寸 Dimensions of Block (mm) | | | | | | | | | | | | | | | 滑轨尺寸 Dimensions of Rail (mm) | | | | | | | 滑轨固定螺栓尺寸 Mounting Bolt for Rail | 基本动额定负荷 Basic Dynamic Load Rating | 基本静额定负荷 Basic Static Load Rating | 容许静力矩 Static Rated Moment(kgf.m) | | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | $H_1$ | N | W | B | $B_1$ | C | $C_1$ | $L_1$ | L | $K_1$ | $K_2$ | G | M | T | $T_1$ | $H_2$ | $H_3$ | $W_R$ | $H_R$ | D | h | d | P | E | (mm) | C(KN) | $C_0$(KN) | $M_R$ KN-m | $M_P$ KN-m | $M_Y$ KN-m | 滑块 block kg | 滑轨 Rail kg/m |
| RGW15CC | 24 | 4 | 16 | 47 | 38 | 4.5 | 30 | 26 | 45 | 68 | 11.4 | 4.7 | 5.3 | M5 | 6 | 6.95 | 3.6 | 6.1 | 15 | 16.5 | 7.5 | 5.7 | 4.5 | 30 | 20 | M4x16 | 11.3 | 24 | 0.311 | 0.173 | 0.173 | 0.22 | 1.8 |
| RGW20CC | 30 | 5 | 21.5 | 63 | 53 | 5 | 40 | 35 | 57.5 | 86 | 13.8 | 6 | 5.3 | M6 | 8 | 10 | 4.3 | 4.3 | 20 | 21 | 9.5 | 8.5 | 6 | 30 | 20 | M5x20 | 21.3 | 46.7 | 0.647 | 0.46 | 0.46 | 0.47 | 2.76 |
| RGW20HC | | | | | | | | | 77.5 | 106 | 23.8 | | | | | | | | | | | | | | | | 26.9 | 63 | 0.872 | 0.837 | 0.837 | 0.63 | |
| RGW25CC | 36 | 5.5 | 23.5 | 70 | 57 | 6.5 | 45 | 40 | 64.5 | 97.9 | 15.75 | 7.25 | 12 | M8 | 9.5 | 10 | 6.2 | 6 | 23 | 23.6 | 11 | 9 | 7 | 30 | 20 | M6x20 | 27.7 | 57.1 | 0.758 | 0.605 | 0.605 | 0.72 | 3.08 |
| RGW25HC | | | | | | | | | 81 | 114.4 | 24 | | | | | | | | | | | | | | | | 33.9 | 73.4 | 0.975 | 0.991 | 0.991 | 0.91 | |
| RGW30CC | 42 | 6 | 31 | 90 | 72 | 9 | 52 | 44 | 71 | 109.8 | 17.5 | 8 | 12 | M10 | 9.5 | 10 | 6.5 | 7.3 | 28 | 28 | 14 | 12 | 9 | 40 | 20 | M8x25 | 39.1 | 82.1 | 1.445 | 1.06 | 1.06 | 1.16 | 4.41 |
| RGW30HC | | | | | | | | | 93 | 131.8 | 28.5 | | | | | | | | | | | | | | | | 48.1 | 105 | 1.846 | 1.712 | 1.712 | 1.52 | |
| RGW35CC | 48 | 6.5 | 33 | 100 | 82 | 9 | 62 | 52 | 79 | 124 | 16.5 | 10 | 12 | M10 | 12 | 13 | 9 | 12.6 | 34 | 30.2 | 14 | 12 | 9 | 40 | 20 | M8x25 | 57.9 | 105.2 | 2.17 | 1.44 | 1.44 | 1.75 | 6.06 |
| RGW35HC | | | | | | | | | 106.5 | 151.5 | 30.25 | | | | | | | | | | | | | | | | 73.1 | 142 | 2.93 | 2.6 | 2.6 | 2.40 | |
| RGW45CC | 60 | 8 | 37.5 | 120 | 100 | 10 | 80 | 60 | 106 | 153.2 | 21 | 10 | 12.9 | M12 | 14 | 15 | 10 | 14 | 45 | 38 | 20 | 17 | 14 | 52.5 | 22.5 | M12x35 | 92.6 | 178.8 | 4.52 | 3.05 | 3.05 | 3.43 | 9.97 |
| RGW45HC | | | | | | | | | 139.8 | 187 | 37.9 | | | | | | | | | | | | | | | | 116 | 230.9 | 6.33 | 5.47 | 5.47 | 4.57 | |
| RGW55CC | 70 | 10 | 43.5 | 140 | 116 | 12 | 95 | 70 | 125.5 | 183.7 | 27.75 | 12.5 | 12.9 | M14 | 16 | 17 | 12 | 17.5 | 53 | 44 | 23 | 20 | 16 | 60 | 30 | M14x45 | 130.5 | 252 | 8.01 | 5.4 | 5.4 | 5.43 | 13.98 |
| RGW55HC | | | | | | | | | 173.8 | 232 | 51.9 | | | | | | | | | | | | | | | | 167.8 | 348 | 11.15 | 10.25 | 10.25 | 7.61 | |
| RGW65CC | 90 | 12 | 53.5 | 170 | 142 | 14 | 110 | 82 | 160 | 232 | 40.8 | 15.8 | 12.9 | M16 | 22 | 23 | 15 | 15 | 63 | 53 | 26 | 22 | 18 | 75 | 35 | M16x50 | 213 | 411.6 | 16.20 | 11.59 | 11.59 | 11.63 | 20.22 |
| RGW65HC | | | | | | | | | 223 | 295 | 72.3 | | | | | | | | | | | | | | | | 275.3 | 572.7 | 22.55 | 22.17 | 22.17 | 16.58 | |

注 : 1kgf=9.81N

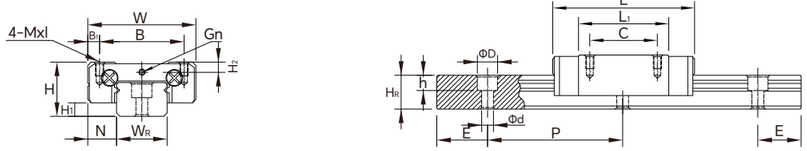
## 微型线性滑轨 MGN-C/H 系列 MGN Mini Linear Guide Series



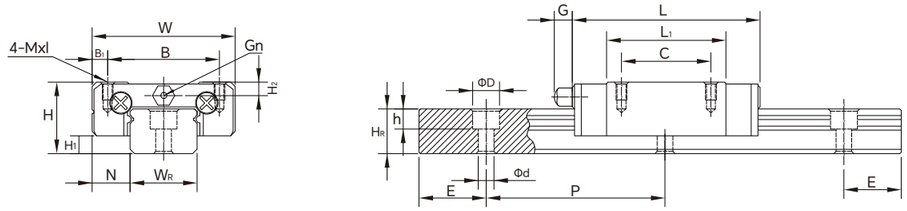
**MGN5**

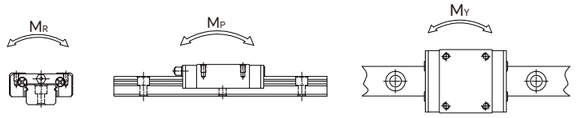



**MGN7, MGN9, MGN12**




**MGN15**




| 型号 Model No. | 组件尺寸 Dimensions of Assembly (mm) | | | 滑块尺寸 Dimensions of Block (mm) | | | | | | | | | 滑轨尺寸 Dimensions of Rail (mm) | | | | | | | 滑轨固定螺栓尺寸 Mounting Bolt for Rail | 基本动额定负荷 Basic Dynamic Load Rating | 基本静额定负荷 Basic Static Load Rating | 容许静力矩 Static Rated Moment(kgf.m) | | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | $H_1$ | N | W | B | $B_1$ | C | $L_1$ | L | G | $G_n$ | MxI | $H_2$ | $W_R$ | $H_R$ | D | h | d | P | E | (mm) | C(KN) | $C_0$(KN) | $M_R$ N-m | $M_P$ N-m | $M_Y$ N-m | 滑块 block kg | 滑轨 Rail kg/m |
| MGN5C | 6 | 1.5 | 3.5 | 12 | 8 | 2 | - | 9.6 | 16 | - | Φ0.8 | M2x1.5 | 1 | 5 | 3.6 | 3.6 | 0.8 | 2.4 | 15 | 5 | M2x6 | 0.54 | 0.84 | 2 | 1.3 | 1.3 | 0.008 | 0.15 |
| MGN7C | 8 | 1.5 | 5 | 17 | 12 | 2.5 | 8 | 13.5 | 22.5 | - | Φ1.2 | M2x2.5 | 1.5 | 7 | 4.8 | 4.2 | 2.3 | 2.4 | 15 | 5 | M2x6 | 0.98 | 1.24 | 4.70 | 2.84 | 2.84 | 0.010 | 0.22 |
| MGN7H | | | | | | | 13 | 21.8 | 30.8 | | | | | | | | | | | | | 1.37 | 1.96 | 7.64 | 4.80 | 4.80 | 0.015 | |
| MGN9C | 10 | 2 | 5.5 | 20 | 15 | 2.5 | 10 | 18.9 | 28.9 | - | Φ1.4 | M3x3 | 1.8 | 9 | 6.5 | 6 | 3.5 | 3.5 | 20 | 7.5 | M3x8 | 1.86 | 2.55 | 11.76 | 7.35 | 7.35 | 0.016 | 0.38 |
| MGN9H | | | | | | | 16 | 29.9 | 39.9 | | | | | | | | | | | | | 2.55 | 4.02 | 19.60 | 18.62 | 18.62 | 0.026 | |
| MGN12C | 13 | 3 | 7.5 | 27 | 20 | 3.5 | 15 | 21.7 | 34.7 | - | Φ2 | M3x3.5 | 2.5 | 12 | 8 | 6 | 4.5 | 3.5 | 25 | 10 | M3x8 | 2.84 | 3.92 | 25.48 | 13.72 | 13.72 | 0.034 | 0.65 |
| MGN12H | | | | | | | 20 | 32.4 | 45.4 | | | | | | | | | | | | | 3.72 | 5.88 | 38.22 | 36.26 | 36.26 | 0.054 | |
| MGN15C | 16 | 4 | 8.5 | 32 | 25 | 3.5 | 20 | 26.7 | 42.1 | 4.5 | M3 | M3x4 | 3 | 15 | 10 | 6 | 4.5 | 3.5 | 40 | 15 | M3x10 | 4.61 | 5.59 | 45.08 | 21.56 | 21.56 | 0.059 | 1.06 |
| MGN15H | | | | | | | 25 | 43.4 | 58.8 | | | | | | | | | | | | | 6.37 | 9.11 | 73.50 | 57.82 | 57.82 | 0.092 | |

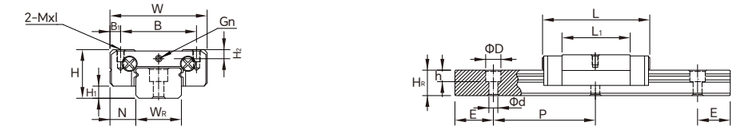
注 : 1kgf=9.81N



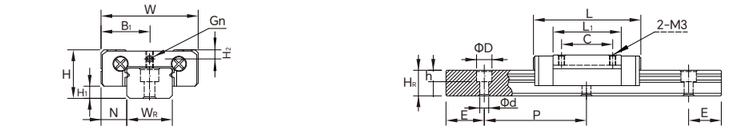
## 微型线性滑轨 MGW-C/H 系列 MGW Mini Linear Guide Series



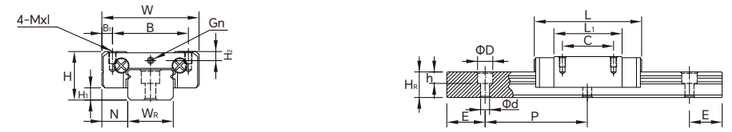
**MGW5C**




**MGW5CL**

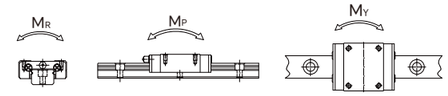



**MGW7, MGW9, MGW12**




**MGW15**




| 型号 Model No. | 组件尺寸 Dimensions of Assembly (mm) | | | 滑块尺寸 Dimensions of Block (mm) | | | | | | | | | 滑轨尺寸 Dimensions of Rail (mm) | | | | | | | | 滑轨固定螺栓尺寸 Mounting Bolt for Rail | 基本动额定负荷 Basic Dynamic Load Rating | 基本静额定负荷 Basic Static Load Rating | 容许静力矩 Static Rated Moment(kgf.m) | | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | $H_1$ | N | W | B | $B_1$ | C | $L_1$ | L | G | $G_n$ | MxI | $H_2$ | $W_R$ | $W_B$ | $H_R$ | D | h | d | P | E | (mm) | C(KN) | $C_0$(KN) | $M_R$ N-m | $M_P$ N-m | $M_Y$ N-m | 滑块 block kg | 滑轨 Rail kg/m |
| MGW 5C | 6.5 | 1.5 | 3.5 | 17 | 13 | 2 | - | 14.1 | 20.5 | - | Φ0.8 | M2.5x1.5 | 1 | 10 | - | 4 | 5.5 | 1.6 | 3 | 20 | 5 | M2.5x7 | 0.68 | 1.18 | 5.5 | 2.7 | 2.7 | 0.016 | 0.34 |
| MGW 5CL | | | | | - | 8.5 | 6.5 | | | | | M3-THRU | | | | | | | | | | | | | | | | | |
| MGW 7C | 9 | 1.9 | 5.5 | 25 | 19 | 3 | 10 | 21 | 31.2 | - | Φ1.2 | M3x3 | 1.85 | 14 | - | 5.2 | 6 | 3.2 | 3.5 | 30 | 10 | M3x6 | 1.37 | 2.06 | 15.70 | 7.14 | 7.14 | 0.020 | 0.51 |
| MGW 7H | | | | | | | 19 | 30.8 | 41 | | | | | | | | | | | | | | 1.77 | 3.14 | 23.45 | 15.53 | 15.53 | 0.029 | |
| MGW 9C | 12 | 2.9 | 6 | 30 | 21 | 4.5 | 12 | 27.5 | 39.3 | - | Φ1.2 | M3x3 | 2.4 | 18 | - | 7 | 6 | 4.5 | 3.5 | 30 | 10 | M3x8 | 2.75 | 4.12 | 40.12 | 18.96 | 18.96 | 0.040 | 0.91 |
| MGW 9H | | | | | 23 | 3.5 | 24 | 38.5 | 50.7 | | | | | | | | | | | | | | 3.43 | 5.89 | 54.54 | 34.00 | 34.00 | 0.057 | |
| MGW 12C | 14 | 3.4 | 8 | 40 | 28 | 6 | 15 | 31.3 | 46.1 | - | Φ1.2 | M3x3.6 | 2.8 | 24 | - | 8.5 | 8 | 4.5 | 4.5 | 40 | 15 | M4x8 | 3.92 | 5.59 | 70.34 | 27.80 | 27.80 | 0.071 | 1.49 |
| MGW 12H | | | | | | | 28 | 45.6 | 60.4 | | | | | | | | | | | | | | 5.10 | 8.24 | 102.70 | 57.37 | 57.37 | 0.103 | |
| MGW 15C | 16 | 3.4 | 9 | 60 | 45 | 7.5 | 20 | 38 | 54.8 | 5.2 | M3 | M4x4.2 | 3.2 | 42 | 23 | 9.5 | 8 | 4.5 | 4.5 | 40 | 15 | M4x10 | 6.77 | 9.22 | 199.34 | 56.66 | 56.66 | 0.143 | 2.86 |
| MGW 15H | | | | | | | 35 | 57 | 73.8 | | | | | | | | | | | | | | 8.93 | 13.38 | 299.01 | 122.60 | 122.60 | 0.215 | |

注 : 1kgf=9.81N



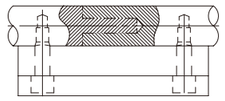
# 直线光轴
# LINEAR SHAFT



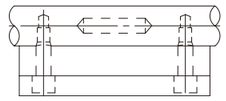
## 轴的特殊加工 Special Machining for Shaft

- 我公司可为您提供直径 ϕ5mm-ϕ150mm，最大长度可达6000mm 的各种直线轴。
- 当您在长度上有特殊要求时，我公司满足不同长度的加工要求，当您要求长度大于 6000mm 时，我们还可以为您对接。（见图 a）

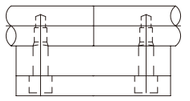
- We can offer linear shaft with diameter ϕ5mm-ϕ150mm.maxium length up to 6000mm.
- When you have special requirements on length,we can meet your machining requirements with different length; when you request above 6000mm,we can anti-connect for you.(Shown in Fig a)



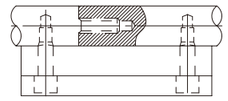
暗接
Dowet Joint



暗接
Dowet Joint



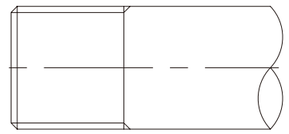
平接
Butted Joint



螺纹连接后磨口连接
Threaded and Ground Joint

- 当您对轴有特殊的加工要求时，如车螺纹、车端头打孔、铣键槽、径向打孔、车阶梯轴等。我们都可以为您提供加工，并且这些特殊加工是在热处理镀硬铬后完成的，因此保证了产品的精度。请把草图或对产品的询价及特殊加工要求告诉我们，我们的服务会令您满意的。

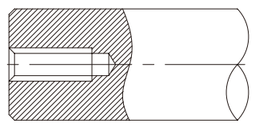
- When you have special requirements on machining.such as threading,coaxial holes drilled and tapped,radial holes drilled and tapped,reduced shaft diameter etc,we can machine for you,and these special machines are finished after heat treatment and hard chrome so that ensure the precision of product.Send us your detailed sketch or blue print for prompt quotation, you should be satisfied with our service.



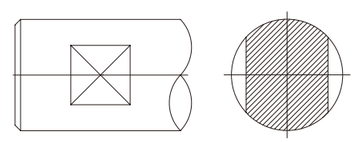
车螺纹
Threading



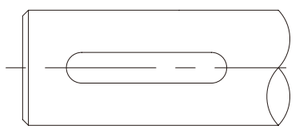
车阶梯轴
Reduced Shaft Diameter



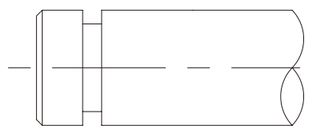
轴端打孔
Coaxial Holes Drilled and Tapped



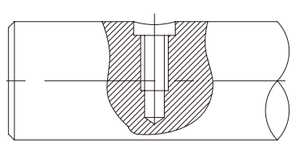
铣槽 - 单槽或多槽
Flats-Single or Multiple



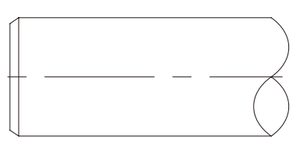
铣键槽
Key Way



车卡环槽
Snap Ring Grooves

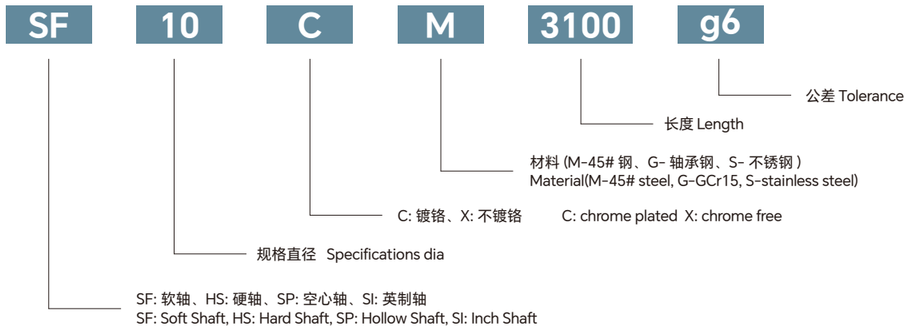


径向打孔
Radial Holes Drilled and Tapped



车棱角
Chamfering

# 光轴型号选型 Linear Shaft Selection




## 空心轴 SP 系列 Hollow Shaft SP Series

- 空心轴 : 可根据客户要求定制内径和壁厚
- 材质 : 45 优质碳素钢 (S45C), 硬度 HRC58-60
  GCr15 轴承钢 (SUJ2)，硬度 HRC60-62

- Hollow shaft: the internal diameter and wall thickness can be customized according to customer requirements.
- Material: 45 high quality carbon steel (S45C), hardness HRC58-60
  GCr15(SUJ2), Rigidity: HRC60-62

| 型号 Model No. | 内径 Inner Diameter (mm) | 外径 Outer Diameter (mm) | 精度 Diameter Tolerance | | 淬硬度深度 Depth of Effevtive Hardness Layer |
|---|---|---|---|---|---|
| | | | g6 | h6 | |
| SP12 | 6 | 12 | -0.006 -0.017 | 0 -0.011 | 0.6~1.5 |
| SP13 | 6 | 13 | -0.006 -0.017 | 0 -0.011 | 0.6~1.5 |
| SP16 | 10 | 16 | -0.006 -0.017 | 0 -0.011 | 0.8~2.0 |
| SP20 | 13 | 20 | -0.007 -0.020 | 0 -0.013 | 0.8~2.0 |
| SP25 | 17 | 25 | -0.007 -0.020 | 0 -0.013 | 0.8~2.0 |
| SP30 | 20 | 30 | -0.007 -0.020 | 0 -0.013 | 0.8~3.0 |
| SP35 | 24 | 35 | -0.009 -0.025 | 0 -0.016 | 0.8~3.0 |
| SP40 | 30 | 40 | -0.009 -0.025 | 0 -0.016 | 0.8~3.0 |
| SP50 | 38 | 50 | -0.009 -0.025 | 0 -0.019 | 0.8~3.0 |
| SP60 | 48 | 60 | -0.010 -0.029 | 0 -0.019 | 1.5~3.0 |

## 英制轴 SI 系列 Inch Shaft SI Series

| 型号 Model No. | 外径 Outer Diameter (mm) | 精度 Diameter Tolerance | | 淬硬度深度 Depth of Effevtive Hardness Layer | 重量 Weight Kg/m |
|---|---|---|---|---|---|
| | | g6 | h6 | | |
| SI-04 | 6.35 | -0.004 -0.012 | 0 -0.008 | 0.4~1.0 | 0.25 |
| SI-06 | 9.525 | -0.005 -0.014 | 0 -0.009 | 0.6~1.5 | 0.56 |
| SI-08 | 12.7 | -0.006 -0.017 | 0 -0.011 | 0.6~1.5 | 1 |
| SI-10 | 15.875 | -0.006 -0.017 | 0 -0.011 | 0.8~2.0 | 1.55 |
| SI-12 | 19.05 | -0.007 -0.020 | 0 -0.013 | 0.8~2.0 | 2.24 |
| SI-16 | 25.4 | -0.007 -0.020 | 0 -0.013 | 0.8~2.0 | 4 |
| SI-20 | 31.75 | -0.007 -0.020 | 0 -0.013 | 0.8~3.0 | 6.21 |
| SI-24 | 38.1 | -0.007 -0.020 | 0 -0.013 | 0.8~3.0 | 8.95 |
| SI-32 | 50.8 | -0.009 -0.025 | 0 -0.016 | 0.8~3.0 | 15.9 |





# 公制实心轴 HS/SF 系列 Metric Solid Shaft HS/SF Series

- 材质：45 优质碳素钢 (S45C), 硬度 HRC58-60
- GCr15 轴承钢 (SUJ2), 硬度 HRC60-62
- 9Cr18 不锈钢 (SUS440), 硬度 HRC55 以上
- 表面可镀硬铬

- Material: 45 high quality carbon steel (S45C), hardness HRC58-60
- GCr15 bearing steel (SUJ2), hardness above HRC60-62
- 9 Cr18 stainless steel (SUS440), hardness above HRC55
- The surface can be hard chrome plated

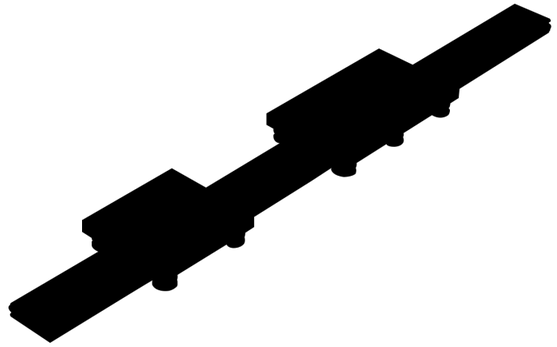
| 型号 Model No. | 外径 Outer Diameter (mm) | 精度 Diameter Tolerance | | 淬硬度深度 Depth of Effevtive Hardness Layer | 重量 Weight Kg/m |
|---|---|---|---|---|---|
| | | g6 | h6 | | |
| HS/SF3 | 3 | -0.002 -0.008 | 0 -0.006 | 0.4~0.7 | 0.05 |
| HS/SF4 | 4 | -0.004 -0.012 | 0 -0.006 | 0.4~0.7 | 0.09 |
| HS/SF5 | 5 | -0.004 -0.012 | 0 -0.006 | 0.4~0.7 | 0.15 |
| HS/SF6 | 6 | -0.004 -0.012 | 0 -0.008 | 0.4~1.0 | 0.22 |
| HS/SF8 | 8 | -0.005 -0.014 | 0 -0.009 | 0.4~1.0 | 0.4 |
| HS/SF10 | 10 | -0.005 -0.014 | 0 -0.009 | 0.6~1.5 | 0.62 |
| HS/SF11 | 11 | -0.006 -0.017 | 0 -0.011 | 0.6~1.5 | 0.74 |
| HS/SF12 | 12 | -0.006 -0.017 | 0 -0.011 | 0.6~1.5 | 0.89 |
| HS/SF13 | 13 | -0.006 -0.017 | 0 -0.011 | 0.6~1.5 | 1.04 |
| HS/SF14 | 14 | -0.006 -0.017 | 0 -0.011 | 0.6~1.5 | 1.20 |
| HS/SF15 | 15 | -0.006 -0.017 | 0 -0.011 | 0.6~1.5 | 1.38 |
| HS/SF16 | 16 | -0.006 -0.017 | 0 -0.011 | 0.8~2.0 | 1.58 |
| HS/SF17 | 17 | -0.006 -0.017 | 0 -0.011 | 0.8~2.0 | 1.78 |
| HS/SF18 | 18 | -0.007 -0.020 | 0 -0.013 | 0.8~2.0 | 1.99 |
| HS/SF19 | 19 | -0.007 -0.020 | 0 -0.013 | 0.8~2.0 | 2.22 |
| HS/SF20 | 20 | -0.007 -0.020 | 0 -0.013 | 0.8~2.0 | 2.47 |
| HS/SF22 | 22 | -0.007 -0.020 | 0 -0.013 | 0.8~2.0 | 2.98 |
| HS/SF25 | 25 | -0.007 -0.020 | 0 -0.013 | 0.8~2.0 | 3.85 |
| HS/SF28 | 28 | -0.007 -0.020 | 0 -0.013 | 0.8~2.0 | 4.83 |
| HS/SF30 | 30 | -0.007 -0.020 | 0 -0.013 | 0.8~3.0 | 5.55 |
| HS/SF32 | 32 | -0.009 -0.025 | 0 -0.016 | 0.8~3.0 | 6.31 |
| HS/SF35 | 35 | -0.009 -0.025 | 0 -0.016 | 0.8~3.0 | 7.55 |
| HS/SF38 | 38 | -0.009 -0.025 | 0 -0.016 | 0.8~3.0 | 8.90 |
| HS/SF40 | 40 | -0.009 -0.025 | 0 -0.016 | 0.8~3.0 | 9.87 |
| HS/SF45 | 45 | -0.009 -0.025 | 0 -0.016 | 0.8~3.0 | 12.49 |
| HS/SF50 | 50 | -0.009 -0.025 | 0 -0.019 | 0.8~3.0 | 15.4 |
| HS/SF55 | 55 | -0.009 -0.025 | 0 -0.019 | 1.5~3.0 | 18.66 |
| HS/SF60 | 60 | -0.010 -0.029 | 0 -0.019 | 1.5~3.0 | 22.21 |
| HS/SF70 | 70 | -0.010 -0.029 | 0 -0.019 | 1.5~3.0 | 30.23 |
| HS/SF80 | 80 | -0.012 -0.034 | 0 -0.022 | 1.5~3.0 | 39.48 |
| HS/SF90 | 90 | -0.012 -0.034 | 0 -0.022 | 1.5~3.0 | 49.97 |
| HS/SF100 | 100 | -0.012 -0.034 | 0 -0.022 | 2.0~3.0 | 61.70 |
| HS/SF110 | 110 | -0.012 -0.034 | 0 -0.022 | 2.0~3.0 | 76.02 |
| HS/SF120 | 120 | -0.014 -0.039 | 0 -0.022 | 2.0~3.0 | 88.84 |
| HS/SF150 | 150 | -0.014 -0.039 | 0 -0.025 | 2.0~3.0 | 138.82 |

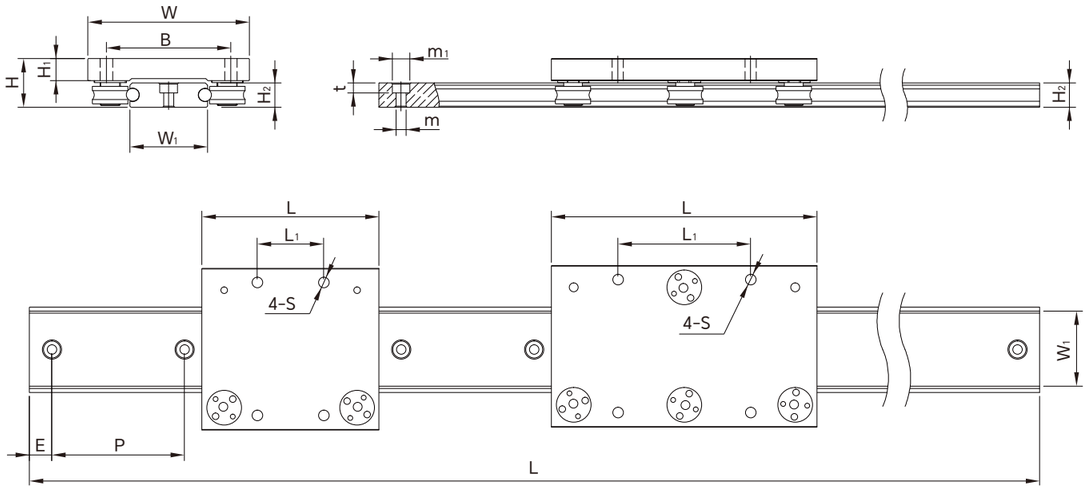



# 滚轮导轨 / 圆柱导轨副
# ROLLER /CYLINDRICAL GUIDE SET



## 抽屉导轨 OLG 系列 Drawer Slide Rail OLG Series

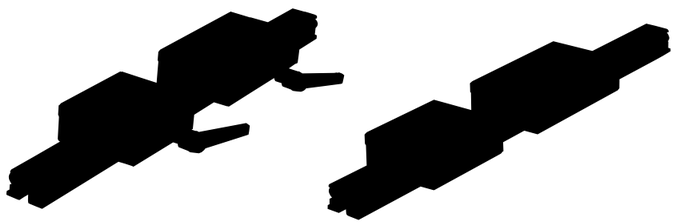


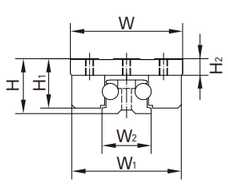


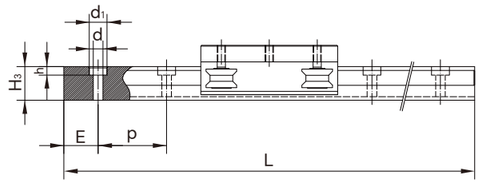

| 型号 Model No. | | 全套 Dimensions of Assembly(mm) | | 导轨 OLG Dimensions of Rail(mm) | | | | | | 滑块尺寸 OLGB Dimensions of Block(mm) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 导轨 Rail | 滑块 Block | H | W | $W_1$ | $H_2$ | P | m | $m_1$ | t | W | H1 | L | $L_1$ | B | S | 滑轮数量 |
| OLG/OLGB25-4 | | 15 | 60 | 25 | 9.5 | 60 | 4.5 | 8 | 4.5 | 60 | 6 | 60 | 25 | 50 | M5 | 4 |
| OLG/OLGB25-6 | | 15 | 60 | 25 | 9.5 | 60 | 4.5 | 8 | 4.5 | 60 | 6 | 100 | 50 | 50 | M5 | 6 |
| OLG/OLGB30-4 | | 18 | 65 | 30 | 11 | 60 | 4.5 | 8 | 4.5 | 65 | 7.5 | 70 | 31 | 52 | M6 | 4 |
| OLG/OLGB30-6 | | 18 | 65 | 30 | 11 | 60 | 4.5 | 8 | 4.5 | 65 | 7.5 | 100 | 60 | 52 | M6 | 6 |
| OLG/OLGB35-4 | | 22 | 73 | 35 | 11 | 60 | 4.5 | 8 | 4.5 | 73 | 10 | 80 | 30 | 60 | M6 | 4 |
| OLG/OLGB35-6 | | 22 | 73 | 35 | 11 | 60 | 4.5 | 8 | 4.5 | 73 | 10 | 120 | 60 | 60 | M6 | 6 |
| OLG/OLGB50-4 | | 18 | 85 | 50 | 11 | 60 | 5.5 | 9.5 | 5.5 | 85 | 7.5 | 80 | 41 | 72 | M6 | 4 |
| OLG/OLGB50-6 | | 18 | 85 | 50 | 11 | 60 | 5.5 | 9.5 | 5.5 | 85 | 7.5 | 120 | 80 | 72 | M6 | 6 |

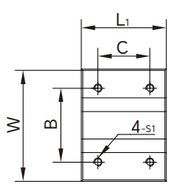
- 注：最大长度 6 米，超过最大长度可对接，请以图纸形式咨询。
- Mark : Max Length 6m, exceeds the maximum length need docking refer to drawing.

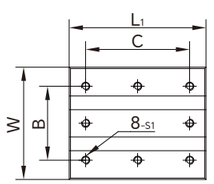
# 滚轮导轨 LGD 系列 Roller Guide External Type LGD Series

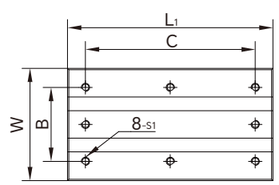


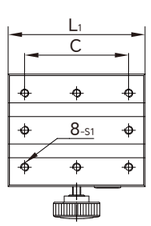


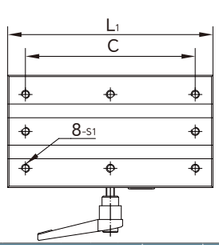




| 型号 Model No. | | 轴径 Shaft Diameter | 组合尺寸 Dimensions of Assembly(mm) | | 滑块尺寸 Dimensions of Block(mm) | | | | | | | 滑块安装孔数量 Mounting holes No. | 滑轮数量 Wheels No. | 导轨尺寸 Dimensions of Rail(mm) | | | | | | | 基本动力安全负荷 N | 基本静力安全负荷 N | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 导轨 Rail | 滑块 Block | | H | W | $H_1$ | $H_2$ | $W_1$ | $L_1$ | B | C | $S_1$ | | | $W_2$ | $H_3$ | h | $d_1$ | d | p | $p_1$ | | | 滑块 重量 kg/pc | 导轨 重量 kg/m |
| LGD6 | LGB6 | ϕ6 | 29 | 60 | 26 | 12 | 58 | 60 | 38 | 40 | M5X8 | 4 | 4 | 26 | 17.8 | 6.5 | 9 | 5.5 | 60 | | 80 | 120 | 0.16 | 1.3 |
| | | | | | | | | 100 | | 75 | | 4 | 4/6 | | | | | | | | 80 | 120 | 0.18 | |
| LGD8 | LGB8 | ϕ8 | 30 | 60 | 26 | 14 | 58 | 70 | 40 | 50 | M5X8 | 4 | 4 | 28 | 20 | 7 | 8.6 | 5.5 | 50 | | 80 | 130 | 0.2 | 2.3 |
| | | | | | | | | 100 | | 80 | | 4 | 4/6 | | | | | | | | 90 | 140 | 0.25 | |
| LGD8E | LGB8E | ϕ8 | 33 | 67 | 27.5 | 14 | 65 | 70 | 45 | 45 | M6X9 | 4 | 4 | 30 | 21 | 8 | 9.5 | 5.5 | 80 | | 80 | 130 | 0.2 | 2.3 |
| | | | | | | | | 100 | | 75 | | 4 | 4/6 | | | | | | | | 90 | 140 | 0.25 | |
| LGD12 | LGB12 | ϕ12 | 39 | 82 | 35 | 12 | 80 | 60 | 54 | 36 | M6X12 | 4 | 2 | 36 | 25.5 | 8 | 10.5 | 6.5 | 100 | 50 | 100 | 150 | 0.32 | 3.1 |
| | | | | | | | | 100 | | 76 | | 8/6 | 4/6 | | | | | | | | 200 | 380 | 0.57 | |
| | | | | | | | | 140 | | 116 | | 8/6 | 4/6 | | | | | | | | 270 | 435 | 0.73 | |
| | | | | | | | | 160 | | 136 | | 8 | 8 | | | | | | | | 290 | 460 | 0.85 | |
| LGD16 | LGB16 | ϕ16 | 50 | 120 | 45 | 14 | 118 | 150 | 90 | 120 | M8×14 | 8 | 4 | 50 | 33 | 10 | 14 | 8.5 | 80 | | 400 | 750 | 1.4 | 5.8 |
| | | | | | | | | 190 | | 150 | | 8/6 | 4/6 | | | | | | | | 430 | 790 | 1.6 | |

注 : 最大长度 6 米，超过最大长度可对接，请以图纸形式咨询。

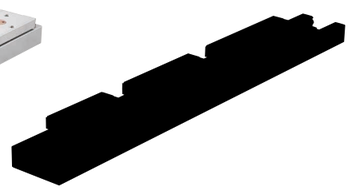
Mark : Max Length 6m, exceeds the maximum length need docking refer to drawing.

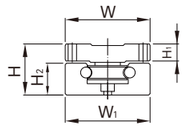


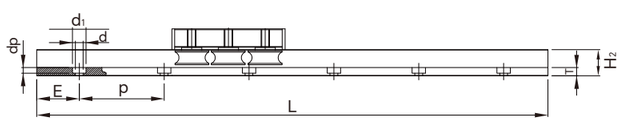


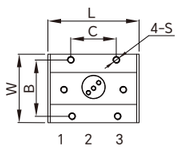
# 滚轮导轨 SGR 系列 Roller Guide Built-in Type SGR Series

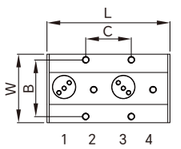


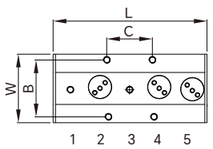


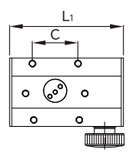


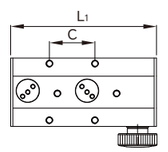



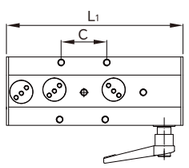



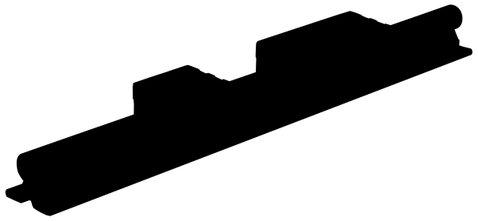



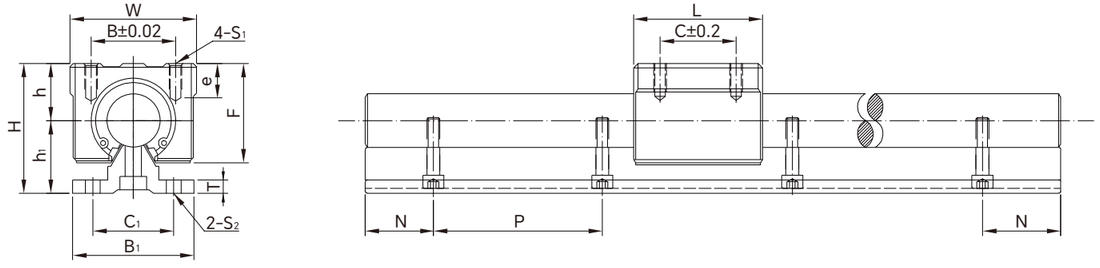

| 型号 Model No. | | 全套 Dimensions of Assembly(mm) | | 导轨 SGR Dimensions of Rail(mm) | | | | | | | | 滑座 SGB Dimensions of Block(mm) | | | | | | | | | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 导轨 Rail | 滑块 Block | H | W | $W_1$ | $H_2$ | dp | P | 轴径 Shaft Diameter | T | $d_1$ | d | W | $H_1$ | L | $L_1$ (带锁紧) Locking | B | C | S | 滑轮数量 Wheels No. | 偏心轮位置 Adjust Wheel | 基本动力安全负荷 (N | | 滑块重量 kg/pc | 导轨重量 kg/m |
| SGR | SGB | | | | | | | | | | | | | | | | | | | | Yo | Zo | | |
| 10 | -3 | 23 | 28 | 28 | 14 | 3.3 | 60 | ϕ5 | 4.5 | 6 | 3.4 | 28 | 8.5 | 47 | 63 | 18.5 | 18.5 | M4 | 3 | 2 | 343 | 322 | 0.045 | 0.9 |
| | -4 | | | | | | | | | | | | | 63 | 80 | | 30 | | 4 | 1/3 | 450 | 420 | 0.061 | |
| | -5 | | | | | | | | | | | | | 80 | 95 | | 40 | | 5 | 2/4/5 | 570 | 525 | 0.077 | |
| 10E | -3 | 30 | 28 | 32 | 17.5 | 3.3 | 60 | ϕ6 | 4.5 | 8 | 4.5 | 28 | 11 | 60 | 80 | 20 | 30 | M4 | 3 | 2 | 343 | 322 | 0.088 | 1.2 |
| | -4 | | | | | | | | | | | | | 88 | 108 | | | | 4 | 1/3 | 450 | 420 | 0.127 | |
| | -5 | | | | | | | | | | | | | 100 | 120 | 20 | 30x30 | M5 | 5 | 2/4/5 | 570 | 525 | 0.156 | |
| 15N | -3 | 32 | 38 | 38 | 18.5 | 5.5 | 120 | ϕ6 | 7 | 8 | 4.5 | 38 | 12 | 60 | 80 | 26 | 26 | M5 | 3 | 2 | 490 | 460 | 0.117 | 1.6 |
| | -4 | | | | | | | | | | | | | 80 | 100 | | | | 4 | 1/3 | 700 | 660 | 0.157 | |
| | -5 | | | | | | | | | | | | | 100 | 124 | | | | 5 | 2/4/5 | 875 | 825 | 0.192 | |
| 15 | -3 | 32 | 46 | 46 | 18.5 | 5.5 | 120 | ϕ6 | 7 | 8 | 4.5 | 46 | 12 | 52 | 72 | 32 | 36 | M5 | 3 | 2 | 490 | 460 | 0.125 | 2.1 |
| | -4 | | | | | | | | | | | | | 72 | 86 | | | | 4 | 1/3 | 700 | 660 | 0.166 | |
| | -5 | | | | | | | | | | | | | 86 | 104 | | | | 5 | 2/4/5 | 875 | 825 | 0.197 | |
| 20N | -3 | 36 | 47 | 47 | 22.5 | 5.5 | 120 | ϕ8 | 8 | 9.5 | 5.5 | 47 | 12 | 80 | 104 | 38 | 30 | M6 | 3 | 2 | 700 | 980 | 0.23 | 2.4 |
| | -4 | | | | | | | | | | | | | 104 | 130 | | | | 4 | 1/3 | 1000 | 1400 | 0.304 | |
| | -5 | | | | | | | | | | | | | 130 | 150 | | | | 5 | 2/4/5 | 1250 | 1750 | 0.374 | |
| 20 | -3 | 36 | 60 | 60 | 22.5 | 5.5 | 120 | ϕ8 | 8 | 9.5 | 5.5 | 60 | 12 | 80 | 104 | 50 | 40 | M6 | 3 | 2 | 700 | 980 | 0.264 | 3.4 |
| | -4 | | | | | | | | | | | | | 104 | 130 | | | | 4 | 1/3 | 1000 | 1400 | 0.35 | |
| | -5 | | | | | | | | | | | | | 130 | 150 | | | | 5 | 2/4/5 | 1250 | 1750 | 0.429 | |
| 25 | -3 | 44 | 70 | 70 | 26 | 6.5 | 120 | ϕ10 | 9 | 11 | 6.5 | 70 | 15 | 100 | 130 | 57 | 45 | M8 | 3 | 2 | 1260 | 1470 | 0.485 | 4.3 |
| | -4 | | | | | | | | | | | | | 130 | 160 | | | | 4 | 1/3 | 1800 | 2100 | 0.644 | |
| | -5 | | | | | | | | | | | | | 160 | 180 | | | | 5 | 2/4/5 | 2520 | 2940 | 0.788 | |
| 35 | -3 | 55 | 100 | 90 | 35 | 8 | 160 | ϕ12 | 11 | 14 | 8.5 | 100 | 18 | 135 | 180 | 82 | 62 | M12 | 3 | 2 | 2800 | 2800 | 1.149 | 6.9 |
| | -4 | | | | | | | | | | | | | 180 | 225 | | | | 4 | 1/3 | 4000 | 4000 | 1.55 | |
| | -5 | | | | | | | | | | | | | 225 | 265 | | | | 5 | 2/4/5 | 5600 | 5714 | 1.908 | |

注 : 最大长度 6 米，超过最大长度可对接，请以图纸形式咨询。

Mark : Max Length 6m, exceeds the maximum length need docking refer to drawing.

# 圆柱导轨副 SBR 系列 Cylindrical Guide SBR Set Series





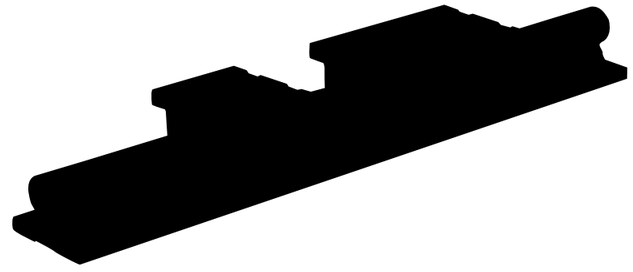

| 型号 Model No. | | 轴径 Shaft Diameter | 组合尺寸 Dimensions of Assembly (mm) | | 滑块尺寸 Dimensions of Block(mm) | | | | | | | | 导轨尺寸 Dimensions of Rail(mm) | | | | | | 额定负载 Basic Load Rating | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 导轨 Rail | 滑块 Block | | H | W | e | h | F | W | L | B | C | $S_1$ | $h_1$ | $B_1$ | $C_1$ | P | T | $S_2$ | 动 dyn.c | 静 stat.co | 滑块 kg/pc | 导轨 kg/m |
| SBRC10 | SBR10UU | ϕ10 | 33 | 36 | 10 | 15 | 24 | 36 | 32 | 25 | 20 | M5 | 18 | 32 | 22 | 100 | 4 | ϕ4.5 | 372 | 549 | 0.065 | 1.2 |
| | SBR10LUU | | | | | | | | 68 | | 46 | | | | | | | | 774 | 1020 | 0.13 | |
| SBRC12G | SBR12UU | ϕ12 | 39.5 | 40 | 10 | 17 | 27.6 | 40 | 39 | 28 | 26 | M5 | 22.5 | 30 | 22 | 100 | 4 | ϕ4.5 | 500 | 770 | 0.1 | 1.6 |
| | SBR12LUU | | | | | | | | 75 | | 50 | | | | | | | | 1020 | 1548 | 0.2 | |
| SBRC12 | SBR12UU | ϕ12 | 36 | 40 | 10 | 17 | 27.6 | 40 | 39 | 28 | 26 | M5 | 19 | 32 | 22 | 100 | 4 | ϕ4.5 | 500 | 770 | 0.1 | 1.6 |
| | SBR12LUU | | | | | | | | 75 | | 50 | | | | | | | | 1020 | 1548 | 0.2 | |
| SBRC13 | SBR13UU | ϕ13 | 36.5 | 40 | 10 | 17 | 27.6 | 40 | 39 | 28 | 26 | M5 | 19.5 | 32 | 22 | 100 | 4 | ϕ4.5 | 510 | 784 | 0.1 | 1.8 |
| SBRC16 | SBR16UU | ϕ16 | 45 | 45 | 12 | 20 | 33 | 45 | 45 | 32 | 30 | M5 | 25 | 40 | 30 | 150 | 5 | ϕ5.5 | 774 | 1180 | 0.15 | 2.6 |
| | SBR16LUU | | | | | | | | 85 | | 60 | | | | | | | | 1548 | 2360 | 0.3 | |
| SBRC20 | SBR20UU | ϕ20 | 50 | 48 | 12 | 23 | 39 | 48 | 50 | 35 | 35 | M6 | 27 | 45 | 30 | 150 | 5 | ϕ5.5 | 882 | 1370 | 0.2 | 3.6 |
| | SBR20LUU | | | | | | | | 96 | | 70 | | | | | | | | 1764 | 2740 | 0.4 | |
| SBRC25 | SBR25UU | ϕ25 | 60 | 60 | 12 | 27 | 47 | 60 | 65 | 40 | 40 | M6 | 33 | 55 | 35 | 200 | 6 | ϕ6.6 | 980 | 1570 | 0.45 | 5.4 |
| | SBR25LUU | | | | | | | | 130 | | 100 | | | | | | | | 1960 | 3140 | 0.9 | |
| SBRC30 | SBR30UU | ϕ30 | 70 | 70 | 18 | 33 | 56 | 70 | 70 | 50 | 50 | M8 | 37 | 60 | 40 | 200 | 7 | ϕ6.6 | 1570 | 2740 | 0.63 | 7.5 |
| | SBR30LUU | | | | | | | | 140 | | 110 | | | | | | | | 3140 | 5480 | 1.26 | |
| SBRC35 | SBR35UU | ϕ35 | 80 | 80 | 18 | 37 | 63 | 80 | 80 | 55 | 55 | M8 | 43 | 65 | 45 | 200 | 8 | ϕ9 | 1670 | 3140 | 0.92 | 10 |
| | SBR35LUU | | | | | | | | 160 | | 120 | | | | | | | | 3440 | 6280 | 1.8 | |
| SBRC40 | SBR40UU | ϕ40 | 90 | 90 | 20 | 42 | 72 | 90 | 90 | 65 | 65 | M10 | 48 | 75 | 55 | 200 | 9 | ϕ9 | 2160 | 4020 | 1.33 | 13.2 |
| | SBR40LUU | | | | | | | | 175 | | 140 | | | | | | | | 4320 | 8040 | 2.66 | |
| SBRC50 | SBR50UU | ϕ50 | 115 | 120 | 20 | 53 | 92 | 120 | 110 | 94 | 80 | M10 | 62 | 95 | 70 | 200 | 11 | ϕ11 | 3820 | 7940 | 3 | 20.7 |
| | SBR50LUU | | | | | | | | 215 | | 160 | M12 | | | | | | | 7640 | 15880 | 6 | |

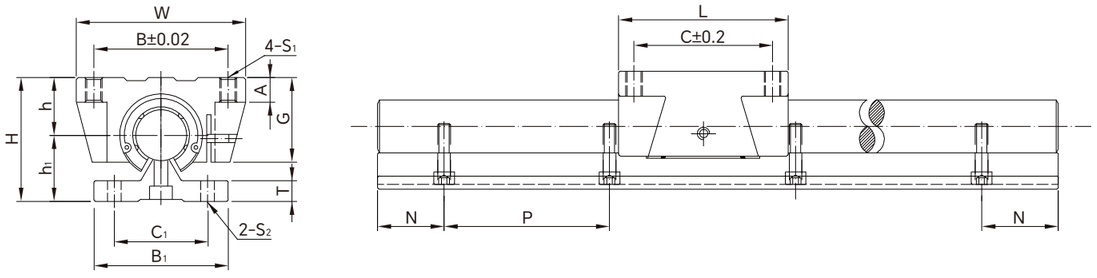
注 : 最大长度 6 米，超过最大长度可对接，请以图纸形式咨询。 Mark : Max Length 6m, exceeds the maximum length need docking refer to drawing.





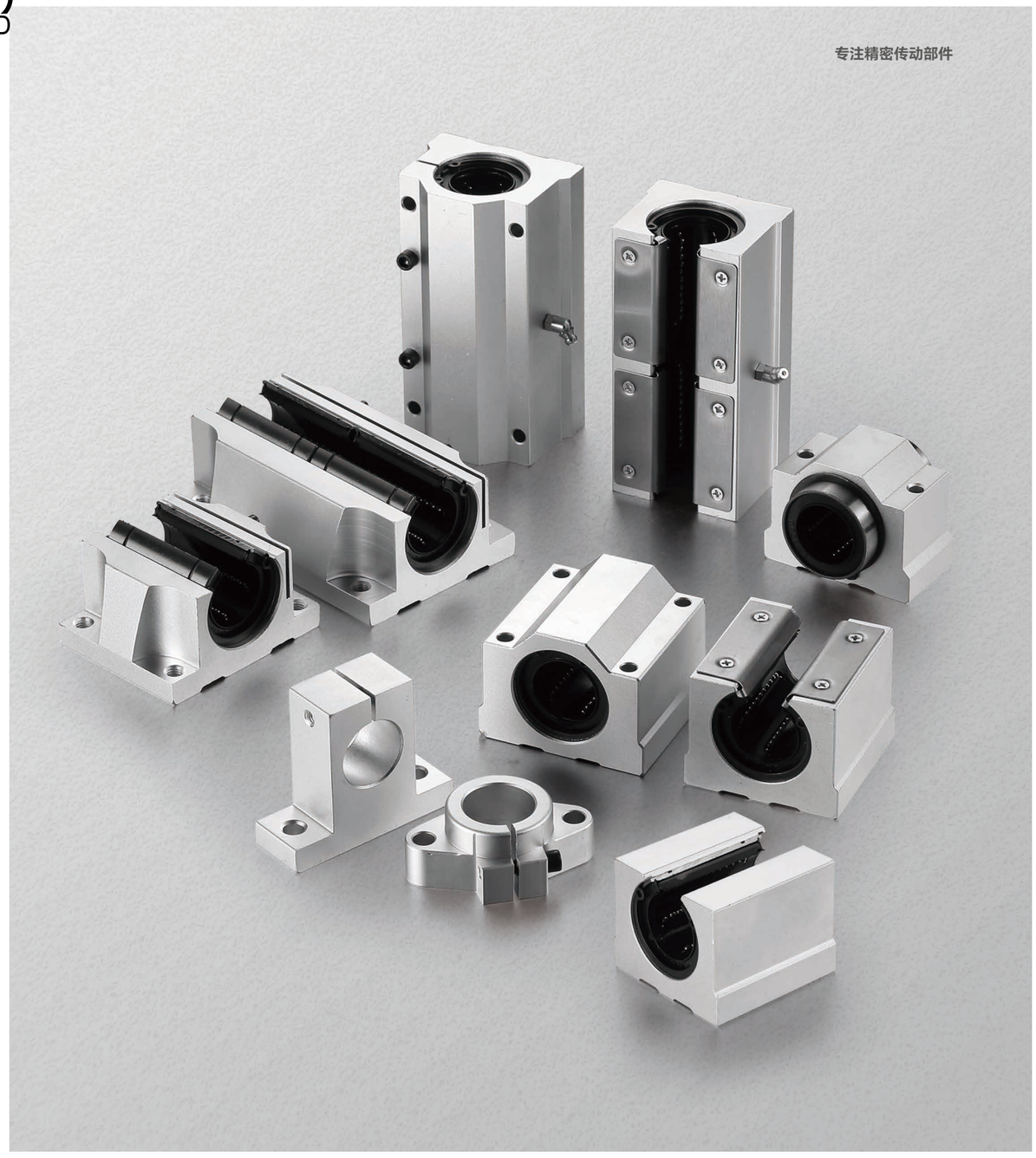
# 圆柱导轨副 TBR 系列 Cylindrical Guide TBR Set Series






| 型号 Model No. | | 轴径 Shaft Diameter | 组合尺寸 Dimensions of Assembly (mm) | | 滑块尺寸 Dimensions of Block(mm) | | | | | | | | 导轨尺寸 Dimensions of Rail(mm) | | | | | | 额定负载 Basic Load Rating | | 重量 Weight | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 导轨 Rail | 滑块 Block | | H | W | A | h | G | W | L | B | C | $S_1$ | $h_1$ | $B_1$ | $C_1$ | P | T | $S_2$ | 动 dyn.c | 静 stat.co | 滑块 kg/pc | 导轨 kg/m |
| TBR16 | TBR16UU | ϕ16 | 40.14 | 62 | 8 | 18 | 26 | 62 | 42 | 50 | 30 | M5 | 22.14 | 50 | 37 | 150 | 6 | ϕ5.5 | 392 | 490 | 0.18 | 2.7 |
| | TBR16LUU | | | | | | | | 85 | | 60 | | | | | | | | 784 | 980 | 0.3 | |
| TBR20 | TBR20UU | ϕ20 | 50.01 | 68 | 10 | 21 | 31 | 68 | 51 | 54 | 37 | M6 | 29.01 | 55 | 40 | 150 | 8 | ϕ5.5 | 784 | 1176 | 0.3 | 4.3 |
| | TBR20LUU | | | | | | | | 96 | | 70 | | | | | | | | 1568 | 2352 | 0.42 | |
| TBR25 | TBR25UU | ϕ25 | 59.97 | 82 | 12 | 28 | 41 | 82 | 65 | 65 | 50 | M8 | 31.97 | 65 | 45 | 200 | 10 | ϕ6.6 | 1568 | 2352 | 0.6 | 5.9 |
| | TBR25LUU | | | | | | | | 130 | | 100 | | | | | | | | 3136 | 4704 | 0.94 | |
| TBR30 | TBR30UU | ϕ30 | 70.02 | 91 | 12 | 33.5 | 48 | 91 | 75 | 75 | 60 | M8 | 36.52 | 75 | 55 | 200 | 10 | ϕ6.6 | 1764 | 2940 | 0.9 | 8.4 |
| | TBR30LUU | | | | | | | | 140 | | 110 | | | | | | | | 3528 | 5880 | 1.22 | |

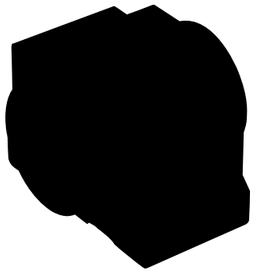
注 : 最大长度 6 米，超过最大长度可对接，请以图纸形式咨询。 Mark : Max Length 6m, exceeds the maximum length need docking refer to drawing.



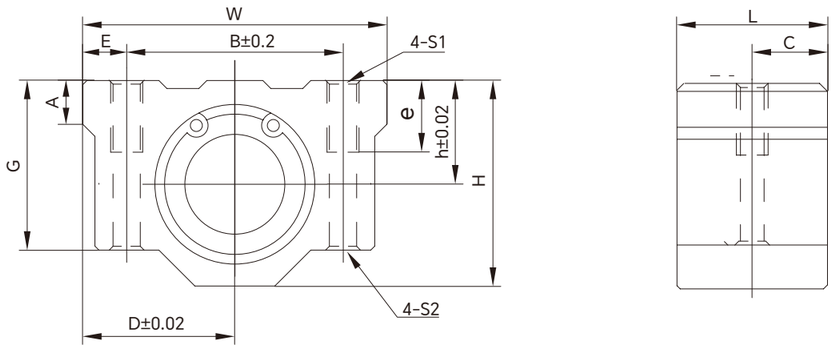

# 箱式滑动单元
# LINEAR MOTION SLIDE UNITS



## 箱式滑动单元 SCV-UU 系列 Slide Unit SCV-UU Series



SC □ V-UU

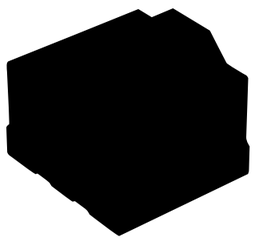



### 型号说明 Model Specification

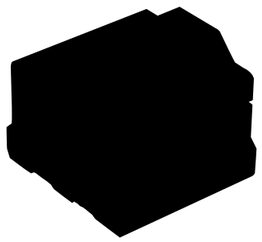
| SC | V | S | L | UU |
|---|---|---|---|---|
| 铝滑块 Item | 短型 Short | 标准 Standard | 加长 Long | 密封 Seals |

| 型号 Model No. | 主要尺寸和安装尺寸 Main dimensions and Mounting dimensions (mm) | | | | | | | | | | | | 额定载荷 Basic Load Rating | | 重量 Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h | D | L | W | H | G | A | E | B | C | S1×e | S2 | 动 dyn.c | 静 stat.c0 | |
| SC8V-UU | 11 | 17 | 15.4 | 34 | 22 | 18 | 6 | 5 | 24 | 7.7 | M4×8 | 3.4 | 274 | 392 | 0.027 |
| SC10V-UU | 13 | 20 | 19.9 | 40 | 26 | 21 | 8 | 6 | 28 | 9.95 | M5×12 | 4.3 | 372 | 549 | 0.053 |
| SC12V-UU | 15 | 21 | 20.9 | 42 | 28 | 24 | 8 | 5.75 | 30.5 | 10.45 | M5×12 | 4.3 | 510 | 784 | 0.06 |
| SC13V-UU | 15 | 22 | 20.9 | 44 | 30 | 24.5 | 8 | 5.5 | 33 | 10.45 | M5×12 | 4.3 | 510 | 784 | 0.064 |
| SC16V-UU | 19 | 25 | 24 | 50 | 38.5 | 32.5 | 9 | 7 | 36 | 12 | M5×12 | 4.3 | 774 | 1180 | 0.11 |
| SC20V-UU | 21 | 27 | 28 | 54 | 41 | 35 | 11 | 7 | 40 | 14 | M6×12 | 5.2 | 882 | 1370 | 0.144 |
| SC25V-UU | 26 | 38 | 37.8 | 76 | 51.5 | 42 | 12 | 11 | 54 | 18.9 | M8×18 | 7 | 980 | 1570 | 0.34 |
| SC30V-UU | 30 | 39 | 41.3 | 78 | 59.5 | 49 | 15 | 10 | 58 | 20.65 | M8×18 | 7 | 1574 | 2740 | 0.424 |
| SC35V-UU | 34 | 45 | 45.3 | 90 | 68 | 54 | 18 | 10 | 70 | 22.65 | M8×18 | 7 | 1670 | 3140 | 0.626 |
| SC40V-UU | 40 | 51 | 56.3 | 102 | 78 | 62 | 20 | 11 | 80 | 28.15 | M10×25 | 8.7 | 2160 | 4020 | 1.0 |
| SC50V-UU | 52 | 61 | 68.8 | 122 | 102 | 80 | 25 | 11 | 100 | 34.4 | M10×25 | 8.7 | 3820 | 7940 | 2.1 |
| SC60V-UU | 58 | 66 | 79.4 | 132 | 114 | 94 | 30 | 12 | 108 | 39.7 | M12×25 | 10.7 | 5700 | 12000 | 3.8 |

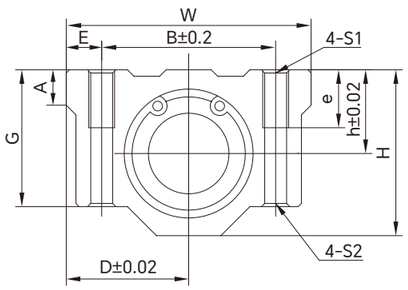
# 箱式滑动单元 SCS/AJ-UU 系列 Slide Unit SCS/AJ-UU Series

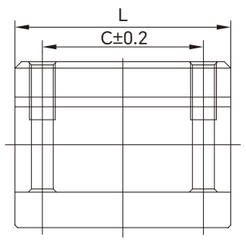


SC □ S-UU



SC □ S-AJ-UU




## 型号说明 Model Specification

| SC | V | S | L | AJ | UU |
|---|---|---|---|---|---|
| 铝滑块 Item | 短型 Short | 标准 Standard | 加长 Long | 调隙 Adjustment | 密封 Seals |

| 型号 Model No. | | 主要尺寸和安装尺寸 Main dimensions and Mounting dimensions (mm) | | | | | | | | | | | | 额定载荷 Basic Load Rating | | 重量 Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | h | D | L | W | H | G | A | E | B | C | S1×e | S2 | 动 dyn.c | 静 stat.c0 | |
| SC6S-UU | SC6S-AJ-UU | 9 | 15 | 25 | 30 | 18 | 15 | 6 | 5 | 20 | 15 | M4×8 | 3.4 | 206 | 265 | 0.034 |
| SC8S-UU | SC8S-AJ-UU | 11 | 17 | 30 | 34 | 22 | 18 | 6 | 5 | 24 | 18 | M4×8 | 3.4 | 274 | 392 | 0.052 |
| SC10S-UU | SC10S-AJ-UU | 13 | 20 | 35 | 40 | 26 | 21 | 8 | 6 | 28 | 21 | M5×12 | 4.3 | 372 | 549 | 0.092 |
| SC12S-UU | SC12S-AJ-UU | 15 | 21 | 36 | 42 | 28 | 24 | 8 | 5.75 | 30.5 | 26 | M5×12 | 4.3 | 510 | 784 | 0.102 |
| SC13S-UU | SC13S-AJ-UU | 15 | 22 | 39 | 44 | 30 | 24.5 | 8 | 5.5 | 33 | 26 | M5×12 | 4.3 | 510 | 784 | 0.12 |
| SC16S-UU | SC16S-AJ-UU | 19 | 25 | 44 | 50 | 38.5 | 32.5 | 9 | 7 | 36 | 34 | M5×12 | 4.3 | 774 | 1180 | 0.2 |
| SC20S-UU | SC20S-AJ-UU | 21 | 27 | 50 | 54 | 41 | 35 | 11 | 7 | 40 | 40 | M6×12 | 5.2 | 882 | 1370 | 0.255 |
| SC25S-UU | SC25S-AJ-UU | 26 | 38 | 67 | 76 | 51.5 | 42 | 12 | 11 | 54 | 50 | M8×18 | 7 | 980 | 1570 | 0.6 |
| SC30S-UU | SC30S-AJ-UU | 30 | 39 | 72 | 78 | 59.5 | 49 | 15 | 10 | 58 | 58 | M8×18 | 7 | 1574 | 2740 | 0.735 |
| SC35S-UU | SC35S-AJ-UU | 34 | 45 | 80 | 90 | 68 | 54 | 18 | 10 | 70 | 60 | M8×18 | 7 | 1670 | 3140 | 1.1 |
| SC40S-UU | SC40S-AJ-UU | 40 | 51 | 90 | 102 | 78 | 62 | 20 | 11 | 80 | 60 | M10×25 | 8.7 | 2160 | 4020 | 1.59 |
| SC50S-UU | SC50S-AJ-UU | 52 | 61 | 110 | 122 | 102 | 80 | 25 | 11 | 100 | 80 | M10×25 | 8.7 | 3820 | 7940 | 3.34 |
| SC60S-UU | SC60S-AJ-UU | 58 | 66 | 122 | 132 | 114 | 94 | 30 | 12 | 108 | 90 | M12×25 | 10.7 | 6500 | 13000 | 4.27 |

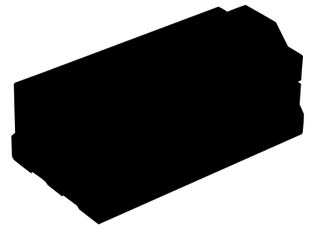




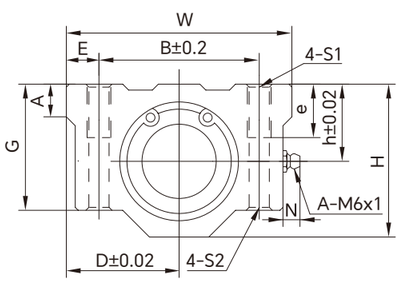
# 箱式滑动单元 SCL/AJL-UU 系列 Slide Unit SCL/AJL-UU Series

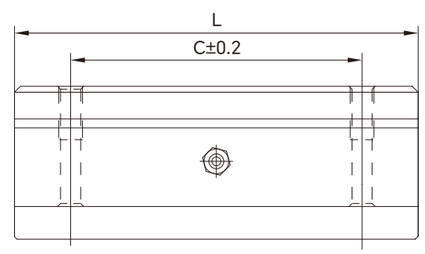


SC □ L-UU



SC □ L-AJ-UU



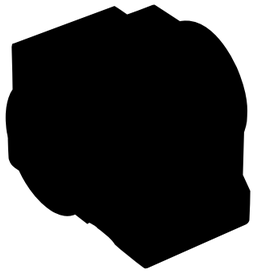




## 型号说明 Model Specification

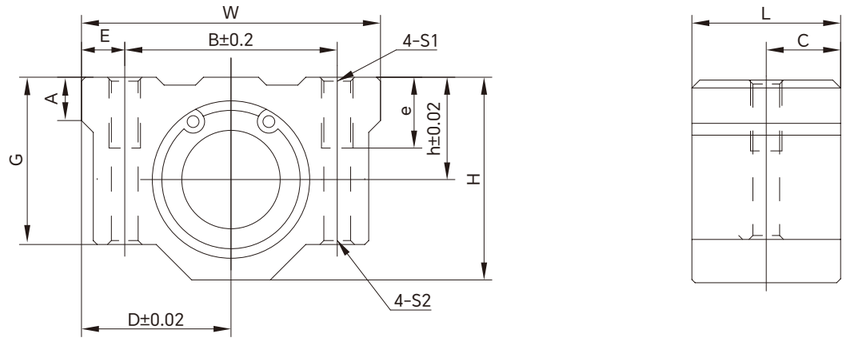
| SC | V | S | L | AJ | UU |
|---|---|---|---|---|---|
| 铝滑块 Item | 短型 Short | 标准 Standard | 加长 Long | 调隙 Adjustment | 密封 Seals |

| 型号 Model No. | | 主要尺寸和安装尺寸 Main dimensions and Mounting dimensions (mm) | | | | | | | | | | | | | 额定载荷 Basic Load Rating | | 重量 Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | h | D | L | W | H | G | N | A | E | B | C | S1×e | S2 | 动 dyn.c | 静 stat.c0 | |
| SC8L-UU | SC8L-AJ-UU | 11 | 17 | 58 | 34 | 22 | 18 | 7 | 6 | 5 | 24 | 42 | M4×8 | 3.4 | 431 | 784 | 0.102 |
| SC10L-UU | SC10L-AJ-UU | 13 | 20 | 68 | 40 | 26 | 21 | 7 | 8 | 6 | 28 | 46 | M5×12 | 4.3 | 588 | 1100 | 0.18 |
| SC12L-UU | SC12L-AJ-UU | 15 | 21 | 70 | 42 | 28 | 24 | 6.5 | 8 | 5.75 | 30.5 | 50 | M5×12 | 4.3 | 813 | 1570 | 0.25 |
| SC13L-UU | SC13L-AJ-UU | 15 | 22 | 75 | 44 | 30 | 24.5 | 6.5 | 8 | 5.5 | 33 | 50 | M5×12 | 4.3 | 813 | 1570 | 0.24 |
| SC16L-UU | SC16L-AJ-UU | 19 | 25 | 85 | 50 | 38.5 | 32.5 | 6 | 9 | 7 | 36 | 60 | M5×12 | 4.3 | 1230 | 2350 | 0.4 |
| SC20L-UU | SC20L-AJ-UU | 21 | 27 | 96 | 54 | 41 | 35 | 7 | 11 | 7 | 40 | 70 | M6×12 | 5.2 | 1410 | 2740 | 0.570 |
| SC25L-UU | SC25L-AJ-UU | 26 | 38 | 130 | 76 | 51.5 | 42 | 4 | 12 | 11 | 54 | 100 | M8×18 | 7 | 1610 | 3140 | 1.2 |
| SC30L-UU | SC30L-AJ-UU | 30 | 39 | 140 | 78 | 59.5 | 49 | 5 | 15 | 10 | 58 | 110 | M8×18 | 7 | 2450 | 5490 | 1.48 |
| SC35L-UU | SC35L-AJ-UU | 34 | 45 | 155 | 90 | 68 | 54 | 5.5 | 18 | 10 | 70 | 120 | M8×18 | 7 | 2650 | 6270 | 2.2 |
| SC40L-UU | SC40L-AJ-UU | 40 | 51 | 175 | 102 | 78 | 62 | 5 | 20 | 11 | 80 | 140 | M10×25 | 8.7 | 3430 | 8040 | 3.2 |
| SC50L-UU | SC50L-AJ-UU | 52 | 61 | 215 | 122 | 102 | 80 | 5 | 25 | 11 | 100 | 160 | M12×25 | 8.7 | 6080 | 15900 | 6.7 |
| SC60L-UU | SC60L-AJ-UU | 58 | 66 | 240 | 132 | 114 | 94 | 5 | 30 | 12 | 108 | 180 | M12×25 | 10.7 | 7000 | 18000 | 9.29 |

# 箱式滑动单元 SCEV-UU 系列 Slide Unit SCEV-UU Series



SCE □ V-UU




## 型号说明 Model Specification

| SC | E | V | S | L | UU |
|---|---|---|---|---|---|
| 铝滑块 Item | 欧标 Europ | 短型 Short | 标准 Standard | 加长 Long | 密封 Seals |

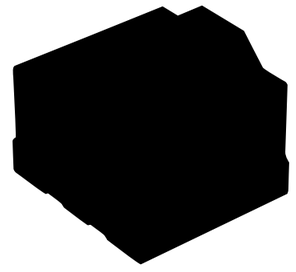
| 型号 Model No. | 主要尺寸和安装尺寸 Main dimensions and Mounting dimensions (mm) | | | | | | | | | | | | 额定载荷 Basic Load Rating | | 重量 Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | h | D | L | W | H | G | A | E | B | C | S1×e | S2 | 动 dyn.c | 静 stat.c0 | |
| SCE8V-UU | 11 | 17 | 14.4 | 34 | 22 | 18 | 6 | 5 | 24 | 7.2 | M4×8 | 3.4 | 274 | 392 | 0.025 |
| SCE12V-UU | 15 | 22 | 20.8 | 44 | 30 | 24.5 | 8 | 5.5 | 33 | 10.4 | M5×12 | 4.3 | 510 | 784 | 0.065 |
| SCE16V-UU | 19 | 25 | 22.4 | 50 | 38.5 | 32.5 | 9 | 7 | 36 | 11.2 | M6×12 | 4.3 | 774 | 1180 | 0.1 |
| SCE20V-UU | 21 | 27 | 29 | 54 | 41 | 35 | 11 | 7 | 40 | 14.5 | M6×12 | 5.2 | 882 | 1370 | 0.148 |
| SCE25V-UU | 26 | 38 | 40.9 | 76 | 51.5 | 42 | 12 | 11 | 54 | 20.45 | M8×18 | 7 | 980 | 1570 | 0.368 |
| SCE30V-UU | 30 | 39 | 48.9 | 78 | 59.5 | 49 | 15 | 10 | 58 | 24.45 | M8×18 | 7 | 1574 | 2740 | 0.5 |
| SCE40V-UU | 40 | 51 | 56.4 | 102 | 78 | 62 | 20 | 11 | 80 | 28.2 | M10×25 | 8.7 | 2160 | 4020 | 1.0 |
| SCE50V-UU | 52 | 61 | 72.4 | 122 | 102 | 80 | 25 | 11 | 100 | 36.2 | M10×25 | 8.7 | 3820 | 7940 | 2.205 |



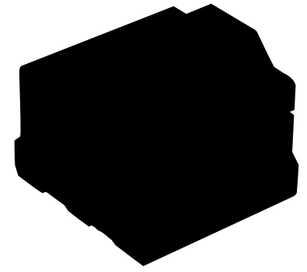




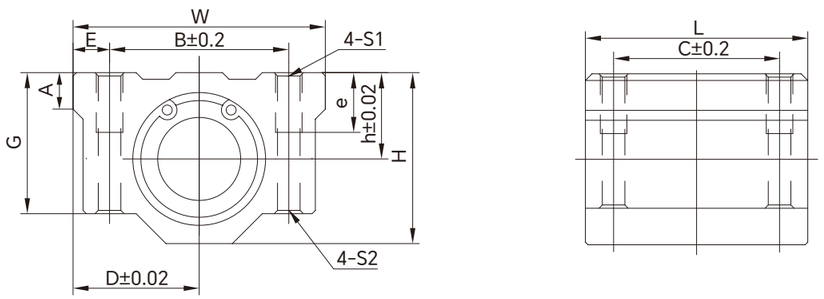
# 箱式滑动单元 SCE/EAJ-UU 系列 Slide Unit SCE/EAJ-UU Series



SCE □ S-UU



SCE □ S-AJ-UU




## 型号说明 Model Specification

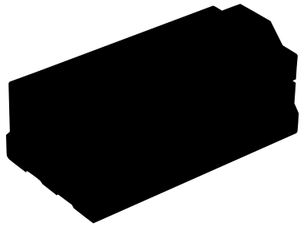
| SC | E | V | S | AJ | UU |
|---|---|---|---|---|---|
| 铝滑块 Item | 欧标 Europ | 短型 Short | 标准 Standard | 调隙 Adjustment | 密封 Seals |

| 型号 Model No. | | 主要尺寸和安装尺寸 Main dimensions and Mounting dimensions (mm) | | | | | | | | | | | 重量 Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 密封型 Seal Type | | h | D | L | W | H | G | A | E | B | C | S1×e | S2 | |
| SCE8S-UU | SCE8S-AJ-UU | 11 | 17 | 30 | 34 | 22 | 18 | 6 | 5 | 24 | 18 | M4×8 | 3.4 | 0.098 |
| SCE10S-UU | SCE10S-AJ-UU | 13 | 20 | 35 | 40 | 26 | 21 | 8 | 6 | 28 | 21 | M5×12 | 4.3 | 0.102 |
| SCE12S-UU | SCE12S-AJ-UU | 15 | 22 | 39 | 44 | 30 | 24.5 | 8 | 5.5 | 33 | 26 | M5×12 | 4.3 | 0.12 |
| SCE16S-UU | SCE16S-AJ-UU | 19 | 25 | 44 | 50 | 38.5 | 32.5 | 9 | 7 | 36 | 34 | M5×12 | 4.3 | 0.2 |
| SCE20S-UU | SCE20S-AJ-UU | 21 | 27 | 53 | 54 | 41 | 35 | 11 | 7 | 40 | 40 | M6×12 | 5.2 | 0.27 |
| SCE25S-UU | SCE25S-AJ-UU | 26 | 38 | 67 | 76 | 51.5 | 42 | 12 | 11 | 54 | 50 | M8×18 | 7 | 0.6 |
| SCE30S-UU | SCE30S-AJ-UU | 30 | 39 | 76 | 78 | 59.5 | 49 | 15 | 10 | 58 | 58 | M8×18 | 7 | 0.776 |
| SCE40S-UU | SCE40S-AJ-UU | 40 | 51 | 90 | 102 | 78 | 62 | 20 | 11 | 80 | 60 | M10×25 | 8.7 | 1.59 |
| SCE50S-UU | SCE50S-AJ-UU | 52 | 61 | 110 | 122 | 102 | 80 | 25 | 11 | 100 | 80 | M10×25 | 8.7 | 3.34 |
| SCE60S-UU | SCE60S-AJ-UU | 58 | 66 | 137 | 132 | 114 | 94 | 30 | 12 | 108 | 90 | M12×25 | 10.7 | 4.8 |

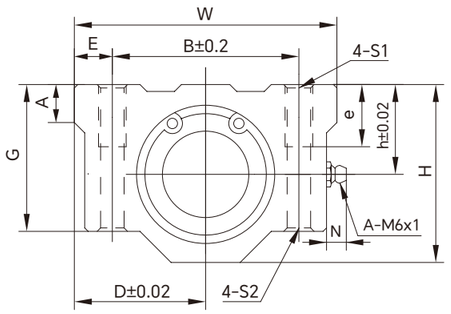
## 箱式滑动单元 SCEL/EAJL-UU 系列 Slide Unit SCEL/EAJL-UU Series

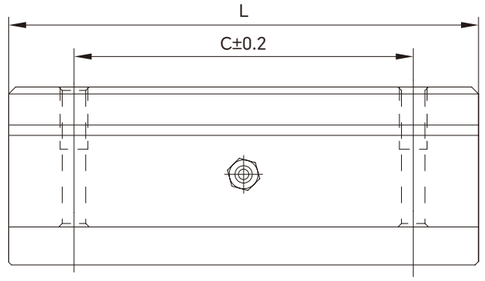


SCE □ L-UU



SCE □ L-AJ-UU




### 型号说明 Model Specification

| SC | E | V | S | L | AJ | UU |
|---|---|---|---|---|---|---|
| 铝滑块 Item | 欧标 Europ | 短型 Short | 标准 Standard | 加长 Long | 调隙 Adjustment | 密封 Seals |

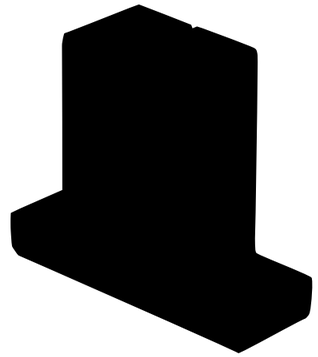
| 型号 Model No. | | 主要尺寸和安装尺寸 Main dimensions and Mounting dimensions (mm) | | | | | | | | | | | | 重量 Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 密封型 Seal Type | | h | D | L | W | H | G | A | E | B | C | S1×e | S2 | |
| SCE8L-UU | SCE8L-AJ-UU | 11 | 17 | 58 | 34 | 22 | 18 | 6 | 5 | 24 | 12 | M4×8 | 3.4 | 0.16 |
| SCE10L-UU | SCE10L-AJ-UU | 13 | 20 | 68 | 40 | 26 | 21 | 8 | 6 | 28 | 46 | M5×12 | 4.3 | 0.18 |
| SCE12L-UU | SCE12L-AJ-UU | 15 | 22 | 77 | 44 | 30 | 24.5 | 8 | 5.5 | 33 | 64 | M5×12 | 4.3 | 0.237 |
| SCE16L-UU | SCE16L-AJ-UU | 19 | 25 | 89 | 50 | 38.5 | 32.5 | 9 | 7 | 36 | 79 | M5×12 | 4.3 | 0.405 |
| SCE20L-UU | SCE20L-AJ-UU | 21 | 27 | 100 | 54 | 41 | 35 | 11 | 7 | 40 | 90 | M6×12 | 5.2 | 0.51 |
| SCE25L-UU | SCE25L-AJ-UU | 26 | 38 | 136 | 76 | 51.5 | 42 | 12 | 11 | 54 | 119 | M8×18 | 7 | 1.22 |
| SCE30L-UU | SCE30L-AJ-UU | 30 | 39 | 154 | 78 | 59.5 | 49 | 15 | 10 | 58 | 132 | M8×18 | 7 | 1.58 |
| SCE40L-UU | SCE40L-AJ-UU | 40 | 51 | 180 | 102 | 78 | 62 | 20 | 11 | 80 | 150 | M10×25 | 8.7 | 3.18 |
| SCE50L-UU | SCE50L-AJ-UU | 52 | 64 | 230 | 122 | 102 | 80 | 25 | 11 | 100 | 200 | M12×25 | 8.7 | 6.99 |



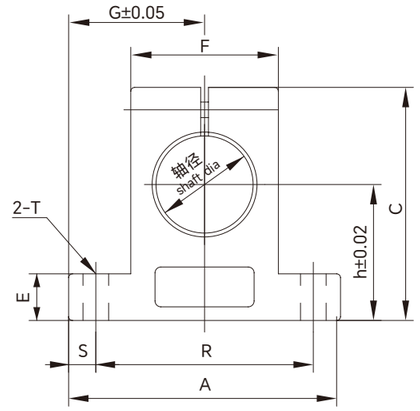


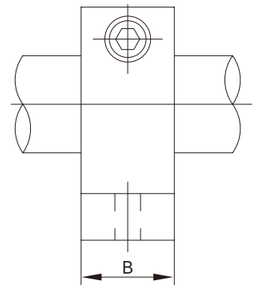


## 铝支撑 SK 系列 Support Unit SK Series



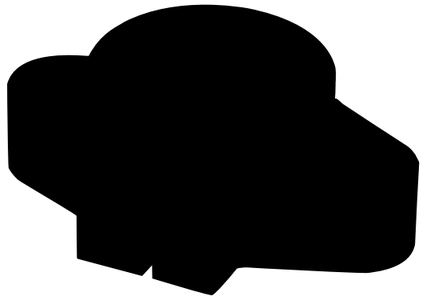
SK



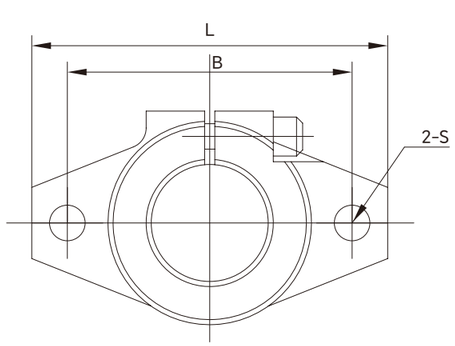



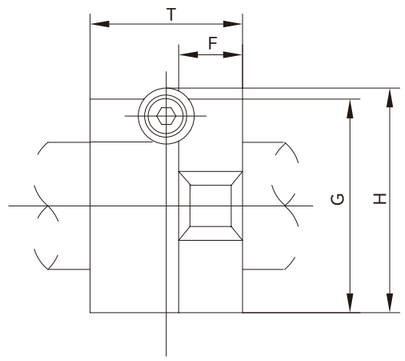

| 型号 Model No. | 轴径 Shaft Diameter | 主要尺寸和安装尺寸 Main dimensions and Mounting dimensions (mm) | | | | | | | | | | 锁紧螺栓 Clamping bolt designation | 安装螺栓 Mounting bolt designation | 重量 Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | h | G | A | B | C | E | F | S | R | T | | | |
| SK-8 | 8 | 20 | 21 | 42 | 14 | 32.8 | 6 | 18 | 5 | 32 | 5.5 | M4 | M5 | 0.024 |
| SK-10 | 10 | 20 | 21 | 42 | 14 | 32.8 | 6 | 18 | 5 | 32 | 5.5 | M4 | M5 | 0.024 |
| SK-12 | 12 | 23 | 21 | 42 | 14 | 37.5 | 6 | 20 | 5 | 32 | 5.5 | M4 | M5 | 0.03 |
| SK-13 | 13 | 23 | 21 | 42 | 14 | 37.5 | 6 | 20 | 5 | 32 | 5.5 | M4 | M5 | 0.03 |
| SK-16 | 16 | 27 | 24 | 48 | 16 | 44 | 8 | 25 | 5 | 38 | 5.5 | M4 | M5 | 0.04 |
| SK-20 | 20 | 31 | 30 | 60 | 20 | 51 | 10 | 30 | 7.5 | 45 | 6.6 | M5 | M6 | 0.07 |
| SK-25 | 25 | 35 | 35 | 70 | 24 | 60 | 12 | 38 | 7 | 56 | 6.6 | M6 | M6 | 0.13 |
| SK-30 | 30 | 42 | 42 | 84 | 28 | 70 | 12 | 44 | 10 | 64 | 9 | M6 | M8 | 0.18 |
| SK-35 | 35 | 50 | 49 | 98 | 32 | 82 | 15 | 50 | 12 | 74 | 11 | M8 | M10 | 0.27 |
| SK-40 | 40 | 60 | 57 | 114 | 36 | 96 | 15 | 60 | 12 | 90 | 11 | M8 | M10 | 0.42 |
| SK-50 | 50 | 70 | 63 | 126 | 40 | 120 | 18 | 74 | 13 | 100 | 14 | M12 | M12 | 0.75 |
| SK-60 | 60 | 80 | 74 | 148 | 45 | 136 | 18 | 90 | 14 | 120 | 14 | M12 | M12 | 1.1 |

## 铝支撑 SHF 系列 Support Unit SHF Series



SHF




| 型号 Model No. | | 主要尺寸和安装尺寸 Main dimensions and Mounting dimensions (mm) | | | | | | | 锁紧螺栓 Clamping bolt designation | 安装螺栓 Mounting bolt designation | 重量 Weight kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 密封型 Seal Type | 轴径 Shaft Diameter | L | T | F | H | G | B | 2S | | | |
| SHF-8 | 8 | 43 | 10 | - | 24 | - | 32 | 5.5 | M4 | M5 | 0.013 |
| SHF-10 | 10 | 43 | 10 | - | 24 | - | 32 | 5.5 | M4 | M5 | 0.013 |
| SHF-12 | 12 | 47 | 13 | 4 | 28 | 25 | 36 | 5.5 | M4 | M5 | 0.02 |
| SHF-13 | 13 | 47 | 13 | 4 | 28 | 25 | 36 | 5.5 | M4 | M5 | 0.02 |
| SHF-16 | 16 | 50 | 16 | 6 | 31 | 28 | 40 | 5.5 | M4 | M5 | 0.027 |
| SHF-20 | 20 | 60 | 20 | 8 | 37 | 34 | 48 | 7 | M5 | M6 | 0.04 |
| SHF-25 | 25 | 70 | 25 | 10 | 42 | 40 | 56 | 7 | M5 | M6 | 0.06 |
| SHF-30 | 30 | 80 | 30 | 12 | 50 | 46 | 64 | 9 | M6 | M8 | 0.11 |
| SHF-35 | 35 | 92 | 35 | 14 | 58 | 50 | 72 | 12 | M8 | M10 | 0.38 |
| SHF-40 | 40 | 105 | 40 | 16 | 67 | 56 | 80 | 12 | M10 | M10 | 0.51 |
| SHF-50 | 50 | 122 | 50 | 19 | 83 | 70 | 96 | 14 | M12 | M12 | 0.89 |
| SHF-60 | 60 | 140 | 60 | 23 | 95 | 82 | 112 | 14 | M12 | M12 | 1.5 |



## 主要设备清单 Main Equipment List

| 序号 | 设备名称 | 型号规格 | 生产厂家 | 使用功能 |
|---|---|---|---|---|
| 1 | 检测设备 | SJ-410+ 台架 | 三丰 Mitutoyo | 粗糙度仪 |
| 2 | 检测设备 | LSM-503+ 显示器 | 三丰 Mitutoyo | 激光测径仪 |
| 3 | 检测设备 | CV-4500S4 | 三丰 Mitutoyo | 轮廓仪 |
| 4 | 检测设备 | RA-2200DH | 三丰 Mitutoyo | 圆度仪 |
| 5 | 丝杆旋风铣 | LWN160.4000 | 莱斯特瑞兹 Leistritz | 螺纹 / 蜗杆 |
| 6 | 丝杆旋风铣 | LWN160.6000 | 莱斯特瑞兹 Leistritz | 螺纹 / 蜗杆 |
| 7 | 成型滚压 | PR-40CNC | 宝飞螺 Profiroll | 丝杠滚压 |
| 8 | 成型滚压 | ST-20.2 | 台湾镁佳 Taiwan MEGA | 丝杠滚压 |
| 9 | 成型滚压 | ST-347.7 | 台湾镁佳 Taiwan MEGA | 丝杠滚压 |
| 10 | 倒立车 | VSC7 | 德国埃马克 EMAG | 车削中心 |
| 11 | 车削中心 | S10 | 日本阿玛达 AMADA | 带 Y 轴车削中心 |
| 12 | 加工中心 | MYCENTER-4XT | 日本北村 Kitamura | 五轴 4+1 |
| 13 | 加工中心 | FZ15W | 德国巨浪 Chiron | 四轴 |
| 14 | 加工中心 | DMG-MAX3000 | 日本德马吉森精机 DMG-MORI | 四轴双交换工作台 |
| 15 | 加工中心 | HCZ-6500 | 广州德力 | 加工长度 6500mm |
| 16 | 加工中心 | JM-NV900 | 江南数控 | 四轴 |
| 17 | 钻铣中心 | JN-T500 | 江南数控 | |
| 18 | 复合车铣 | GS-280Y | 台湾程泰 Goodway | 车铣带 Y 轴 |
| 19 | 复合车铣 | QT-C300MYL | 日本 Mazak | 车铣带 Y 轴，加工长度 1 米 |
| 20 | 复合车铣 | QT-C300MYL | 日本 Mazak | 车铣带 Y 轴，带中心架，加工长度 1 米 |
| 21 | 复合车铣 | T65M/500 | 海德曼 | 车铣中心 |
| 22 | 数控车床 | T55/300 | 海德曼 | |
| 23 | 数控车床 | T358 | 海德曼 | |
| 24 | 数控车床 | CH-430/800 | 金和车床 | 精密车床 |
| 25 | 数控车床 | CH-430/1100 | 金和车床 | 精密车床 |
| 26 | 内螺纹磨床 | SK7615 | 宁波明润 | 内螺纹磨床 |
| 27 | 数控端面外圆磨 | GA-2020CNC | 台湾荣光 | 外圆磨，加工长度 200mm |

欧必帝（天津）传动科技有限公司

专注精密传动部件

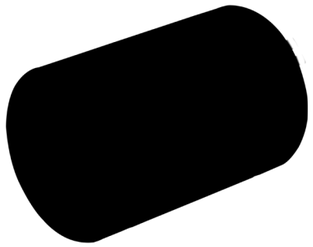


# 直线轴承
# Linear Bearing

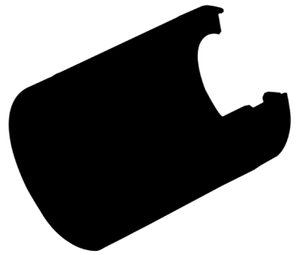
# SDM-UU/SDM-AJ-UU/SDM-OP-UU



SDM-UU
Standard type



SDM-AJ-UU
Adjustable type



SDM-OP-UU
Open type

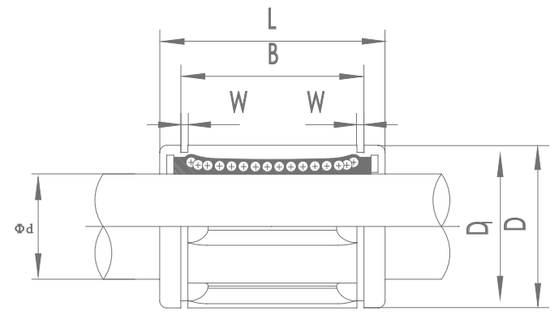
## 型号说明
Model Specification

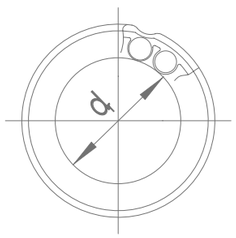
| SDM | AJ | OP | UU |
|---|---|---|---|
| 钢保直线 Item | 调隙 Adjustment | 大开口 Open | 密封 Seals |

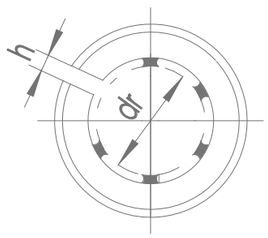
| Nominal shaft diameter (Inch/mm) | Part Number | | | | | | | | | dr | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | SDM | Ball circuit | weight(g) | SDM-AJ | ball circuit | weight(g) | SDM-OP | Ball circuit | weight(g) | mm | Tolerance(μm) |
| | | | | | | | | | | | Precision / High |
| 6 | SDM6-UU | 4 | 8.5 | - | - | - | - | - | - | 6 | 0 -6 / 0 -9 |
| 8 | SDM8S-UU | 4 | 11 | - | - | - | - | - | - | 8 | 0 -6 / 0 -9 |
| 8 | SDM8-UU | 4 | 17 | - | - | - | - | - | - | 8 | 0 -6 / 0 -9 |
| 10 | SDM10-UU | 4 | 36 | - | - | - | - | - | - | 10 | 0 -6 / 0 -9 |
| 12 | SDM12-UU | 4 | 42 | SDM12-AJ-UU | 4 | 41 | SDM12-OP-UU | 3 | 32 | 12 | 0 -6 / 0 -9 |
| 13 | SDM13-UU | 4 | 49 | SDM13-AJ-UU | 4 | 48 | SDM13-OP-UU | 3 | 37 | 13 | 0 -6 / 0 -9 |
| 16 | SDM16-UU | 4 | 76 | SDM16-AJ-UU | 4 | 75 | SDM16-OP-UU | 3 | 58 | 16 | 0 -6 / 0 -9 |
| 20 | SDM20-UU | 5 | 100 | SDM20-AJ-UU | 5 | 98 | SDM20-OP-UU | 4 | 79 | 20 | 0 -7 / 0 -10 |
| 25 | SDM25-UU | 6 | 240 | SDM25-AJ-UU | 6 | 237 | SDM25-OP-UU | 5 | 203 | 25 | 0 -7 / 0 -10 |
| 30 | SDM30-UU | 6 | 270 | SDM30-AJ-UU | 6 | 262 | SDM30-OP-UU | 5 | 228 | 30 | 0 -7 / 0 -10 |
| 35 | SDM35-UU | 6 | 425 | SDM35-AJ-UU | 6 | 420 | SDM35-OP-UU | 5 | 355 | 35 | 0 -8 / 0 -12 |
| 40 | SDM40-UU | 6 | 654 | SDM40-AJ-UU | 6 | 640 | SDM40-OP-UU | 5 | 546 | 40 | 0 -8 / 0 -12 |
| 50 | SDM50-UU | 6 | 1,700 | SDM50-AJ-UU | 6 | 1,680 | SDM50-OP-UU | 5 | 1,420 | 50 | 0 -8 / 0 -12 |
| 60 | SDM60-UU | 6 | 2,000 | SDM60-AJ-UU | 6 | 1,980 | SDM60-OP-UU | 5 | 1,650 | 60 | 0 -9 / 0 -15 |
| 80 | SDM80-UU | 6 | 4,520 | SDM80-AJ-UU | 6 | 4,400 | SDM80-OP-UU | 5 | 3,750 | 80 | 0 -9 / 0 -15 |
| 100 | SDM100-UU | 6 | 8,600 | SDM100-AJ-UU | 6 | 8,540 | SDM100-OP-UU | 5 | 7,200 | 100 | 0 -10 / 0 -20 |
| 120 | SDM120-UU | 8 | 15,000 | SDM120-AJ-UU | 8 | 14,900 | SDM120-OP-UU | 6 | 11,600 | 120 | 0 -10 / 0 -20 |
| 150 | SDM150-UU | 8 | 20,250 | SDM150-AJ-UU | 8 | 20,150 | SDM150-OP-UU | 6 | 15,700 | 150 | 0 -13 / 0 -25 |

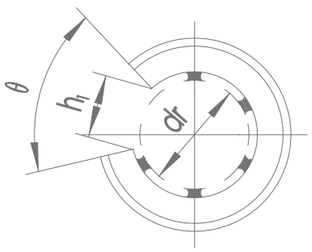


SDM-UU/SDM-AJ-UU/SDM-OP-UU



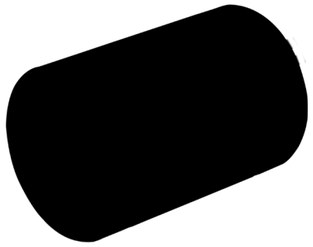




| Major dimensions and tolerance | | | | | | | | | | | | Eccentrcity | | Radial clearance(Max) μm | Basic load rating | | Nominal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | | L | | B | | W | D1 | h | h1 | θ | | | | | | | |
| mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | mm | mm | | Tolerance (μm) | High (μm) | | dynamic (CN) | static (Co N) | |
| 12 | 0 -11 | 19 | 0 -200 | 13.5 | 0 -200 | 1.1 | 11.5 | - | - | - | 8 | 12 | -3 | 206 | 265 | 6 |
| 15 | 0 -11 | 17 | 0 -200 | 11.5 | 0 -200 | 1.1 | 14.3 | - | - | - | 8 | 12 | -3 | 176 | 216 | 8 |
| 15 | 0 -11 | 24 | 0 -200 | 17.5 | 0 -200 | 1.1 | 14.3 | - | - | - | 8 | 12 | -3 | 274 | 392 | 8 |
| 19 | 0 -13 | 29 | 0 -200 | 22 | 0 -200 | 1.3 | 18 | - | - | - | 8 | 12 | -4 | 372 | 549 | 10 |
| 21 | 0 -13 | 30 | 0 -200 | 23 | 0 -200 | 1.3 | 20 | 1.5 | 8 | 80° | 8 | 12 | -4 | 510 | 784 | 12 |
| 23 | 0 -13 | 32 | 0 -200 | 23 | 0 -200 | 1.3 | 22 | 1.5 | 9 | 80° | 8 | 12 | -4 | 510 | 784 | 13 |
| 28 | 0 -13 | 37 | 0 -200 | 26.5 | 0 -200 | 1.6 | 27 | 1.5 | 11 | 80° | 8 | 12 | -6 | 774 | 1,180 | 16 |
| 32 | 0 -16 | 42 | 0 -200 | 30.5 | 0 -200 | 1.6 | 30.5 | 1.5 | 11 | 60° | 10 | 15 | -6 | 882 | 1,370 | 20 |
| 40 | 0 -16 | 59 | 0 -300 | 41 | 0 -300 | 1.85 | 38 | 2 | 12 | 50° | 10 | 15 | -6 | 980 | 1,570 | 25 |
| 45 | 0 -16 | 64 | 0 -300 | 44.5 | 0 -300 | 1.85 | 43 | 2.5 | 15 | 50° | 10 | 15 | -8 | 1,570 | 2,740 | 30 |
| 52 | 0 -19 | 70 | 0 -300 | 49.5 | 0 -300 | 2.1 | 49 | 2.5 | 17 | 50° | 12 | 20 | -8 | 1,670 | 3,140 | 35 |
| 60 | 0 -19 | 80 | 0 -300 | 60.5 | 0 -300 | 2.1 | 57 | 3 | 20 | 50° | 12 | 20 | -10 | 2,160 | 4,020 | 40 |
| 80 | 0 -19 | 100 | 0 -300 | 74 | 0 -300 | 2.6 | 76.5 | 3 | 25 | 50° | 12 | 20 | -13 | 3,820 | 7,940 | 50 |
| 90 | 0 -22 | 110 | 0 -300 | 85 | 0 -300 | 3.15 | 86.5 | 3 | 30 | 50° | 17 | 25 | -13 | 4,700 | 10,000 | 60 |
| 120 | 0 -22 | 140 | 0 -400 | 105.5 | 0 -400 | 4.15 | 116 | 3 | 40 | 50° | 17 | 25 | -20 | 7,350 | 16,000 | 80 |
| 150 | 0 -25 | 175 | 0 -400 | 125.5 | 0 -400 | 4.15 | 145 | 3 | 50 | 50° | 20 | 30 | -20 | 14,100 | 34,800 | 100 |
| 180 | 0 -25 | 200 | 0 -400 | 158.6 | 0 -400 | 4.15 | 175 | 3 | 85 | 80° | 20 | 30 | -25 | 16,400 | 40,000 | 120 |
| 210 | 0 -29 | 240 | 0 -400 | 170.6 | 0 -400 | 5.15 | 204 | 3 | 105 | 80° | 25 | 40 | -25 | 21,100 | 54,300 | 150 |

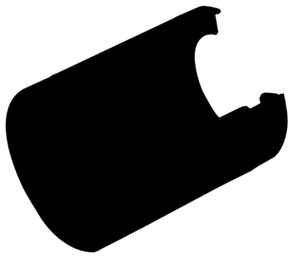
## SDE-UU/SDE-AJ-UU/SDE-OP-UU



SDE-UU
Standard type



SDE-AJ-UU
Adjustable type



SDE-OP-UU
Open type

### 型号说明
### Model Specification

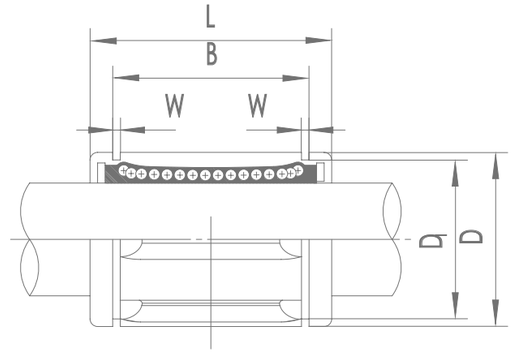
| SDE | AJ | OP | UU |
|---|---|---|---|
| 钢保直线 Item | 调隙 Adjustment | 大开口 Open | 密封 Seals |

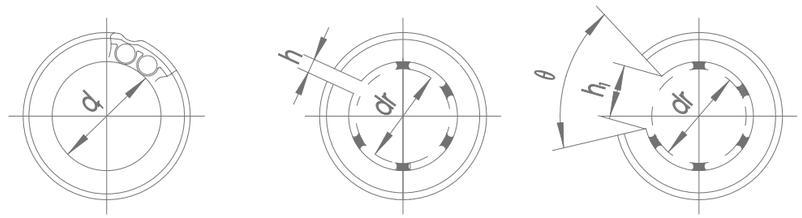
| Nominal shaft diameter (Inch/mm) | Part Number | | | | | | | | | dr | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | SDE | Ball circuit | weight(g) | SDE-AJ | ball circuit | weight(g) | SDE-OP | Ball circuit | weight(g) | mm | Tolerance(μm) |
| | | | | | | | | | | | Precision / High |
| 5 | SDE5-UU | 4 | 11 | - | - | - | - | - | - | 5 | - / +8 0 |
| 8 | SDE8-UU | 4 | 22 | - | - | - | - | - | - | 8 | - / +8 0 |
| 10 | SDE10-UU | 4 | 36 | - | - | - | - | - | - | 10 | - / +8 0 |
| 12 | SDE12-UU | 4 | 45 | SDE12-AJ-UU | 4 | 44 | SDE12-OP-UU | 3 | 35 | 12 | - / +8 0 |
| 16 | SDE16-UU | 4 | 60 | SDE16-AJ-UU | 4 | 59 | SDE16-OP-UU | 3 | 48 | 16 | - / +9 1 |
| 20 | SDE20-UU | 5 | 102 | SDE20-AJ-UU | 5 | 100 | SDE20-OP-UU | 4 | 84 | 20 | - / +9 1 |
| 25 | SDE25-UU | 6 | 235 | SDE25-AJ-UU | 6 | 230 | SDE25-OP-UU | 5 | 195 | 25 | - / +11 -1 |
| 30 | SDE30-UU | 6 | 360 | SDE30-AJ-UU | 6 | 355 | SDE30-OP-UU | 5 | 309 | 30 | - / +11 -1 |
| 40 | SDE40-UU | 6 | 770 | SDE40-AJ-UU | 6 | 758 | SDE40-OP-UU | 5 | 665 | 40 | - / +13 -2 |
| 50 | SDE50-UU | 6 | 1,250 | SDE50-AJ-UU | 6 | 1,230 | SDE50-OP-UU | 5 | 1,080 | 50 | - / +13 -2 |
| 60 | SDE60-UU | 6 | 2,220 | SDE60-AJ-UU | 6 | 2,170 | SDE60-OP-UU | 5 | 1,900 | 60 | - / +13 -2 |
| 80 | SDE80-UU | 6 | 5,140 | SDE80-AJ-UU | 6 | 5,000 | SDE80-OP-UU | 5 | 4,380 | 80 | - / +16 -4 |



OBD

SDE-UU/SDE-AJ-UU/SDE-OP-UU




| Major dimensions and tolerance | | | | | | | | | | | Eccentricity (μm) | Radial clearance(Max) μm | Basic load rating | | Nominal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | | L | | B | | W | D1 | h | h1 | θ | | | dynamic (CN) | static (Co N) | |
| mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | mm | mm | | | | | | |
| 12 | 0 -8 | 22 | 0 -200 | 14.5 | 0 -200 | 1.1 | 11.5 | - | - | - | 12 | -3 | 206 | 265 | 5 |
| 16 | 0 -8 | 25 | 0 -200 | 16.5 | 0 -200 | 1.1 | 15.2 | - | - | - | 12 | -3 | 265 | 402 | 8 |
| 19 | 0 -9 | 29 | 0 -200 | 22 | 0 -200 | 1.3 | 18 | - | - | - | 12 | -4 | 372 | 549 | 10 |
| 22 | 0 -9 | 32 | 0 -200 | 22.9 | 0 -200 | 1.3 | 21 | 1.5 | 7.5 | 78° | 12 | -4 | 510 | 784 | 12 |
| 26 | 0 -9 | 36 | 0 -200 | 24.9 | 0 -200 | 1.3 | 24.9 | 1.5 | 10 | 78° | 12 | -4 | 578 | 892 | 16 |
| 32 | 0 -11 | 45 | 0 -200 | 31.5 | 0 -200 | 1.6 | 30.3 | 2 | 10 | 60° | 15 | -6 | 862 | 1,370 | 20 |
| 40 | 0 -11 | 58 | 0 -300 | 44.1 | 0 -300 | 1.85 | 37.5 | 2 | 12.5 | 60° | 15 | -6 | 980 | 1,570 | 25 |
| 47 | 0 -11 | 68 | 0 -300 | 52.1 | 0 -300 | 1.85 | 44.5 | 2 | 12.5 | 50° | 15 | -8 | 1,570 | 2,740 | 30 |
| 62 | 0 -13 | 80 | 0 -300 | 60.6 | 0 -300 | 2.15 | 59 | 3 | 16.8 | 50° | 17 | -8 | 2,160 | 4,020 | 40 |
| 75 | 0 -13 | 100 | 0 -300 | 77.6 | 0 -300 | 2.65 | 72 | 3 | 21 | 50° | 17 | -13 | 3,820 | 7,940 | 50 |
| 90 | 0 -15 | 125 | 0 -400 | 101.7 | 0 -400 | 3.15 | 86.5 | 3 | 27.2 | 54° | 20 | -13 | 4,700 | 9,800 | 60 |
| 120 | 0 -15 | 165 | 0 -400 | 133.7 | 0 -400 | 4.15 | 116 | 3 | 36.3 | 54° | 20 | -20 | 7,350 | 16,000 | 80 |

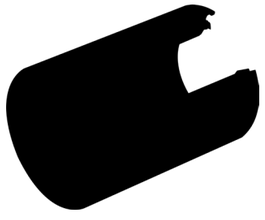
# LM-UU/LM-AJ-UU/LM-OP-UU



LM-UU
Standard type



LM-AJ-UU
Adjustable type



LM-OP-UU
Open type

## 型号说明
Model Specification

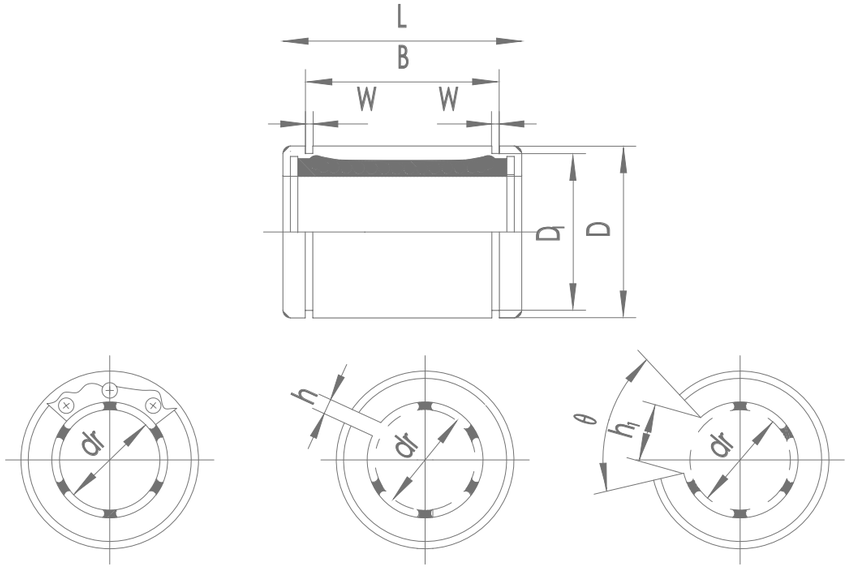
| LM | AJ | OP | UU |
|---|---|---|---|
| 直线轴承 Item | 调隙 Adjustment | 大开口 Open | 密封 Seals |

| Nominal shaft diameter (Inch/mm) | Part Number | | | | | | | | | dr | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LM | Ball circuit | weight(g) | LM-AJ | ball circuit | weight(g) | LM-OP | Ball circuit | weight(g) | mm | Tolerance(μm) |
| | | | | | | | | | | | Precision / High |
| 3 | LM3-UU | 4 | 1.35 | - | - | - | - | - | - | 3 | 0 -5 / 0 -8 |
| 4 | LM4-UU | 4 | 1.9 | - | - | - | - | - | - | 4 | 0 -5 / 0 -8 |
| 5 | LM5-UU | 4 | 4 | - | - | - | - | - | - | 5 | 0 -5 / 0 -8 |
| 6 | LM6-UU | 4 | 7.6 | - | - | - | - | - | - | 6 | 0 -6 / 0 -9 |
| 8 | LM8S-UU | 4 | 10.4 | - | - | - | - | - | - | 8 | 0 -6 / 0 -9 |
| 8 | LM8-UU | 4 | 15 | - | - | - | - | - | - | 8 | 0 -6 / 0 -9 |
| 10 | LM10-UU | 4 | 29.5 | LM10-AJ-UU | 4 | 29 | LM10-OP-UU | 3 | 23 | 10 | 0 -6 / 0 -9 |
| 12 | LM12-UU | 4 | 31.5 | LM12-AJ-UU | 4 | 31 | LM12-OP-UU | 3 | 25 | 12 | 0 -6 / 0 -9 |
| 13 | LM13-UU | 4 | 43 | LM13-AJ-UU | 4 | 42 | LM13-OP-UU | 3 | 34 | 13 | 0 -6 / 0 -9 |
| 16 | LM16-UU | 4 | 69 | LM16-AJ-UU | 4 | 68 | LM16-OP-UU | 3 | 52 | 16 | 0 -6 / 0 -9 |
| 20 | LM20-UU | 5 | 87 | LM20-AJ-UU | 5 | 85 | LM20-OP-UU | 4 | 69 | 20 | 0 -7 / 0 -10 |
| 25 | LM25-UU | 6 | 220 | LM25-AJ-UU | 6 | 216 | LM25-OP-UU | 5 | 188 | 25 | 0 -7 / 0 -10 |
| 30 | LM30-UU | 6 | 250 | LM30-AJ-UU | 6 | 245 | LM30-OP-UU | 5 | 210 | 30 | 0 -7 / 0 -10 |
| 35 | LM35-UU | 6 | 390 | LM35-AJ-UU | 6 | 384 | LM35-OP-UU | 5 | 335 | 35 | 0 -8 / 0 -12 |
| 40 | LM40-UU | 6 | 585 | LM40-AJ-UU | 6 | 579 | LM40-OP-UU | 5 | 500 | 40 | 0 -8 / 0 -12 |
| 50 | LM50-UU | 6 | 1,580 | LM50-AJ-UU | 6 | 1,560 | LM50-OP-UU | 5 | 1,340 | 50 | 0 -8 / 0 -12 |
| 60 | LM60-UU | 6 | 1,860 | LM60-AJ-UU | 6 | 1,820 | LM60-OP-UU | 5 | 1,610 | 60 | 0 -9 / 0 -15 |
| 80 | LM80-UU | 6 | 4,420 | LM80-AJ-UU | 6 | 4,300 | LM80-OP-UU | 5 | 3,650 | 80 | 0 -9 / 0 -15 |
| 100 | LM100-UU | 6 | 8,600 | LM100-AJ-UU | 6 | 8,540 | LM100-OP-UU | 5 | 7,200 | 100 | 0 -10 / 0 -20 |
| 120 | LM120-UU | 8 | 15,000 | LM120-AJ-UU | 8 | 14,900 | LM120-OP-UU | 6 | 11,600 | 120 | 0 -10 / 0 -20 |
| 150 | LM150-UU | 8 | 20,250 | LM150-AJ-UU | 8 | 20,150 | LM150-OP-UU | 6 | 15,700 | 150 | 0 -13 / 0 -25 |



OBD

# LM-UU/LM-AJ-UU/LM-OP-UU




| Nominal shaft diameter (mm) | Major dimensions and tolerance | | | | | | | | | | | | Eccentrcity | | Radial clearance(Max) μm | Basic load rating | | Nominal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | D | | L | | B | | W | D1 | h | h1 | θ | | Precision (μm) | High(μm) | | dynamic (CN) | static (Co N) | |
| | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | mm | mm | | | | | | | | |
| 7 | 0 -9 | | 10 | 0 -120 | - | - | - | - | - | - | - | | 4 | 8 | -3 | 69 | 105 | 3 |
| 8 | 0 -9 | | 12 | 0 -120 | - | - | - | - | - | - | - | | 4 | 8 | -3 | 88 | 127 | 4 |
| 10 | 0 -9 | | 15 | 0 -120 | 10.2 | 0 -200 | 1.1 | 9.6 | - | - | - | | 4 | 8 | -3 | 167 | 206 | 5 |
| 12 | 0 -11 | | 19 | 0 -200 | 13.5 | 0 -200 | 1.1 | 11.5 | - | - | - | | 8 | 12 | -3 | 206 | 265 | 6 |
| 15 | 0 -11 | | 17 | 0 -200 | 11.5 | 0 -200 | 1.1 | 14.3 | - | - | - | | 8 | 12 | -3 | 176 | 216 | 8 |
| 15 | 0 -11 | | 24 | 0 -200 | 17.5 | 0 -200 | 1.1 | 14.3 | - | - | - | | 8 | 12 | -3 | 274 | 392 | 8 |
| 19 | 0 -13 | | 29 | 0 -200 | 22 | 0 -200 | 1.3 | 18 | 1 | 6.8 | 80° | | 8 | 12 | -4 | 372 | 549 | 10 |
| 21 | 0 -13 | | 30 | 0 -200 | 23 | 0 -200 | 1.3 | 20 | 1.5 | 8 | 80° | | 8 | 12 | -4 | 510 | 784 | 12 |
| 23 | 0 -13 | | 32 | 0 -200 | 23 | 0 -200 | 1.3 | 22 | 1.5 | 9 | 80° | | 8 | 12 | -4 | 510 | 784 | 13 |
| 28 | 0 -13 | | 37 | 0 -200 | 26.5 | 0 -200 | 1.6 | 27 | 1.5 | 11 | 80° | | 8 | 12 | -6 | 774 | 1,180 | 16 |
| 32 | 0 -16 | | 42 | 0 -200 | 30.5 | 0 -200 | 1.6 | 30.5 | 1.5 | 11 | 60° | | 10 | 15 | -6 | 882 | 1,370 | 20 |
| 40 | 0 -16 | | 59 | 0 -300 | 41 | 0 -300 | 1.85 | 38 | 2 | 12 | 50° | | 10 | 15 | -6 | 980 | 1,570 | 25 |
| 45 | 0 -16 | | 64 | 0 -300 | 44.5 | 0 -300 | 1.85 | 43 | 2.5 | 15 | 50° | | 10 | 15 | -8 | 1,570 | 2,740 | 30 |
| 52 | 0 -19 | | 70 | 0 -300 | 49.5 | 0 -300 | 2.1 | 49 | 2.5 | 17 | 50° | | 12 | 20 | -8 | 1,670 | 3,140 | 35 |
| 60 | 0 -19 | | 80 | 0 -300 | 60.5 | 0 -300 | 2.1 | 57 | 3 | 20 | 50° | | 12 | 20 | -10 | 2,160 | 4,020 | 40 |
| 80 | 0 -19 | | 100 | 0 -300 | 74 | 0 -300 | 2.6 | 76.5 | 3 | 25 | 50° | | 12 | 20 | -13 | 3,820 | 7,940 | 50 |
| 90 | 0 -22 | | 110 | 0 -300 | 85 | 0 -300 | 3.15 | 86.5 | 3 | 30 | 50° | | 17 | 25 | -13 | 4,700 | 10,000 | 60 |
| 120 | 0 -22 | | 140 | 0 -400 | 105.5 | 0 -400 | 4.15 | 116 | 3 | 40 | 50° | | 17 | 25 | -20 | 7,350 | 16,000 | 80 |
| 150 | 0 -25 | | 175 | 0 -400 | 125.5 | 0 -400 | 4.15 | 145 | 3 | 50 | 50° | | 20 | 30 | -20 | 14,100 | 34,800 | 100 |
| 180 | 0 -25 | | 200 | 0 -400 | 158.5 | 0 -400 | 4.15 | 175 | 3 | 85 | 80° | | 20 | 30 | -25 | 16,400 | 40,000 | 120 |
| 210 | 0 -29 | | 240 | 0 -400 | 170.6 | 0 -400 | 5.15 | 204 | 3 | 105 | 80° | | 25 | 40 | -25 | 21,100 | 54,300 | 150 |

## LME-UU/LME-AJ-UU/LME-OP-UU



LME-UU
Standard type



LME-AJ-UU
Adjustable type



LME-OP-UU
Open type

### 型号说明
### Model Specification

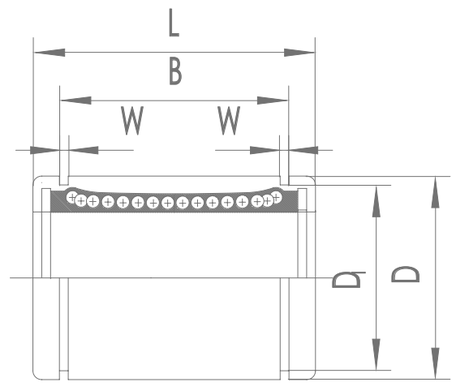
| LME | AJ | OP | UU |
|---|---|---|---|
| 欧标轴承 Item | 调隙 Adjustment | 大开口 Open | 密封 Seals |

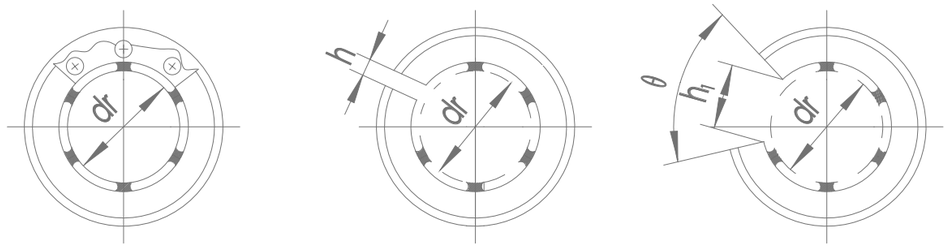
| Nominal shaft diameter (Inch/mm) | 型号 Part Number | | | | | | | | | dr | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LME | Ball circuit | weight(g) | LME-AJ | ball circuit | weight(g) | LME-OP | Ball circuit | weight(g) | mm | Tolerance($\mu$m) | |
| | | | | | | | | | | | Precision | High |
| 5 | LME5-UU | 4 | 11 | - | - | - | - | - | - | 5 | - | +8 0 |
| 8 | LME8-UU | 4 | 20 | - | - | - | - | - | - | 8 | - | +8 0 |
| 10 | LME10-UU | 4 | 29.5 | LME10-AJ-UU | 4 | 29 | LME10-OP-UU | 3 | 23 | 10 | - | +8 0 |
| 12 | LME12-UU | 4 | 41 | LME12-AJ-UU | 4 | 40 | LME12-OP-UU | 3 | 32 | 12 | - | +8 0 |
| 16 | LME16-UU | 4 | 57 | LME16-AJ-UU | 4 | 56 | LME16-OP-UU | 3 | 44 | 16 | - | +9 -1 |
| 20 | LME20-UU | 5 | 91 | LME20-AJ-UU | 5 | 90 | LME20-OP-UU | 4 | 75 | 20 | - | +9 -1 |
| 25 | LME25-UU | 6 | 215 | LME25-AJ-UU | 6 | 212 | LME25-OP-UU | 5 | 181 | 25 | - | +11 -1 |
| 30 | LME30-UU | 6 | 325 | LME30-AJ-UU | 6 | 320 | LME30-OP-UU | 5 | 272 | 30 | - | +11 -1 |
| 40 | LME40-UU | 6 | 705 | LME40-AJ-UU | 6 | 694 | LME40-OP-UU | 5 | 600 | 40 | - | +13 -2 |
| 50 | LME50-UU | 6 | 1,130 | LME50-AJ-UU | 6 | 1,110 | LME50-OP-UU | 5 | 970 | 50 | - | +13 -2 |
| 60 | LME60-UU | 6 | 2,050 | LME60-AJ-UU | 6 | 2,000 | LME60-OP-UU | 5 | 1,580 | 60 | - | +13 -2 |
| 80 | LME80-UU | 6 | 5,000 | LME80-AJ-UU | 6 | 4,860 | LME80-OP-UU | 5 | 4,240 | 80 | - | +16 -4 |



OBD

LME-UU/LME-AJ-UU/LME-OP-UU



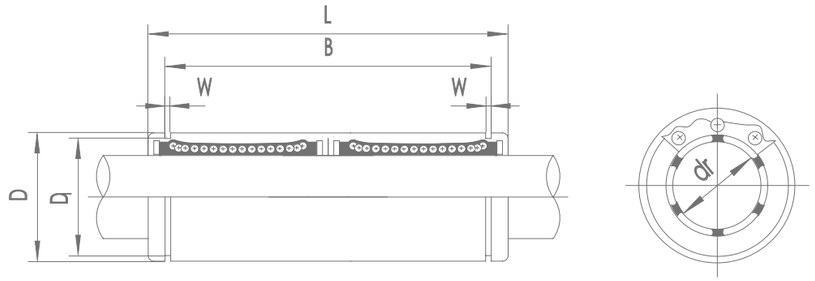




| Major dimensions and tolerance | | | | | | | | | | | | Eccentrcity ($\mu$m) | Radial clearan-ce(Max) $\mu$m | Basic load rating | | Nominal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | | L | | B | | W | D1 | h | h1 | θ | | | | dynamic (CN) | static (Co N) | |
| mm | Tolerance ($\mu$m) | mm | Tolerance ($\mu$m) | mm | Tolerance ($\mu$m) | mm | mm | mm | mm | | | | | | | |
| 12 | 0 -8 | 22 | 0 -200 | 14.5 | 0 -200 | 1.1 | 11.5 | - | - | - | | 12 | -3 | 206 | 265 | 5 |
| 16 | 0 -8 | 25 | 0 -200 | 16.5 | 0 -200 | 1.1 | 15.2 | - | - | - | | 12 | -3 | 265 | 402 | 8 |
| 19 | 0 -9 | 29 | 0 -200 | 22 | 0 -200 | 1.3 | 18 | 1 | 6.8 | 80° | | 12 | -4 | 372 | 549 | 10 |
| 22 | 0 -9 | 32 | 0 -200 | 22.9 | 0 -200 | 1.3 | 21 | 1.5 | 7.5 | 78° | | 12 | -4 | 510 | 784 | 12 |
| 26 | 0 -9 | 36 | 0 -200 | 24.9 | 0 -200 | 1.3 | 24.9 | 1.5 | 10 | 78° | | 12 | -4 | 578 | 892 | 16 |
| 32 | 0 -11 | 45 | 0 -200 | 31.5 | 0 -200 | 1.6 | 30.3 | 2 | 10 | 60° | | 15 | -6 | 862 | 1,370 | 20 |
| 40 | 0 -11 | 58 | 0 -300 | 44.1 | 0 -300 | 1.85 | 37.5 | 2 | 12.5 | 60° | | 15 | -6 | 980 | 1,570 | 25 |
| 47 | 0 -11 | 68 | 0 -300 | 52.1 | 0 -300 | 1.85 | 44.5 | 2 | 12.5 | 50° | | 15 | -8 | 1,570 | 2,740 | 30 |
| 62 | 0 -13 | 80 | 0 -300 | 60.6 | 0 -300 | 2.15 | 59 | 3 | 16.8 | 50° | | 17 | -8 | 2,160 | 4,020 | 40 |
| 75 | 0 -13 | 100 | 0 -300 | 77.6 | 0 -300 | 2.65 | 72 | 3 | 21 | 50° | | 17 | -13 | 3,820 | 7,940 | 50 |
| 90 | 0 -15 | 125 | 0 -400 | 101.7 | 0 -400 | 3.15 | 86.5 | 3 | 27.2 | 54° | | 20 | -13 | 4,700 | 9,800 | 60 |
| 120 | 0 -15 | 165 | 0 -400 | 133.7 | 0 -400 | 4.15 | 116 | 3 | 36.3 | 54° | | 20 | -20 | 7,350 | 16,000 | 80 |

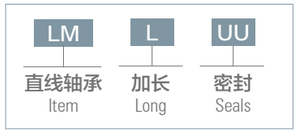
## LM □ L-UU



LM-LUU




### 型号说明
### Model Specification



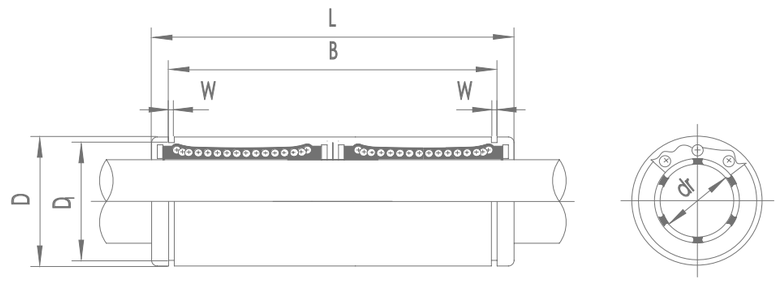

| Steel Type | Ball circuit | Major dimensions and tolerance | | | | | | | | | | Eccentrcity (μm) | Basic load rating | | Weight (g) | Nominal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | dr | | D | | L | | B | | W | D1 | | dynamic (CN) | static (Co N) | | |
| | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | | | | | |
| LM6L-UU | 4 | 6 | 0 -10 | 12 | 0 -13 | 35 | 0 -300 | 27 | 0 -300 | 1.1 | 11.5 | 15 | 323 | 530 | 16 | 6 |
| LM8L-UU | 4 | 8 | 0 -10 | 15 | 0 -13 | 45 | 0 -300 | 35 | 0 -300 | 1.1 | 14.3 | 15 | 431 | 784 | 31 | 8 |
| LM10L-UU | 4 | 10 | 0 -10 | 19 | 0 -16 | 55 | 0 -300 | 44 | 0 -300 | 1.3 | 18 | 15 | 588 | 1,100 | 62 | 10 |
| LM12L-UU | 4 | 12 | 0 -10 | 21 | 0 -16 | 57 | 0 -300 | 46 | 0 -300 | 1.3 | 20 | 15 | 813 | 1,570 | 80 | 12 |
| LM13L-UU | 4 | 13 | 0 -10 | 23 | 0 -16 | 61 | 0 -300 | 46 | 0 -300 | 1.3 | 22 | 15 | 813 | 1,570 | 90 | 13 |
| LM16L-UU | 4 | 16 | 0 -10 | 28 | 0 -16 | 70 | 0 -300 | 53 | 0 -300 | 1.6 | 27 | 15 | 1,230 | 2,350 | 145 | 16 |
| LM20L-UU | 5 | 20 | 0 -12 | 32 | 0 -19 | 80 | 0 -300 | 61 | 0 -300 | 1.6 | 30.5 | 20 | 1,400 | 2,740 | 180 | 20 |
| LM25L-UU | 6 | 25 | 0 -12 | 40 | 0 -19 | 112 | 0 -400 | 82 | 0 -400 | 1.85 | 38 | 20 | 1,560 | 3,140 | 440 | 25 |
| LM30L-UU | 6 | 30 | 0 -12 | 45 | 0 -19 | 123 | 0 -400 | 89 | 0 -400 | 1.85 | 43 | 20 | 2,490 | 5,490 | 480 | 30 |
| LM35L-UU | 6 | 35 | 0 -15 | 52 | 0 -22 | 135 | 0 -400 | 99 | 0 -400 | 2.1 | 49 | 25 | 2,650 | 6,270 | 795 | 35 |
| LM40L-UU | 6 | 40 | 0 -15 | 60 | 0 -22 | 151 | 0 -400 | 121 | 0 -400 | 2.1 | 57 | 25 | 3,430 | 8,040 | 1,170 | 40 |
| LM50L-UU | 6 | 50 | 0 -15 | 80 | 0 -22 | 192 | 0 -400 | 148 | 0 -400 | 2.6 | 76.5 | 25 | 6,080 | 15,900 | 3,100 | 50 |
| LM60L-UU | 6 | 60 | 0 -20 | 90 | 0 -25 | 209 | 0 -400 | 170 | 0 -400 | 3.15 | 86.5 | 30 | 7,550 | 20,000 | 3,500 | 60 |



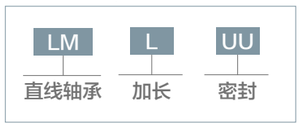
## LME □ L-UU



LME-LUU

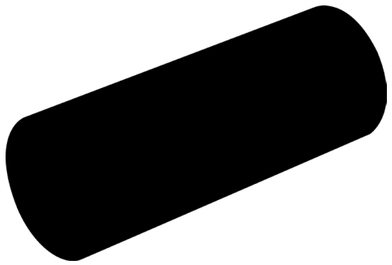



### 型号说明
### Model Specification

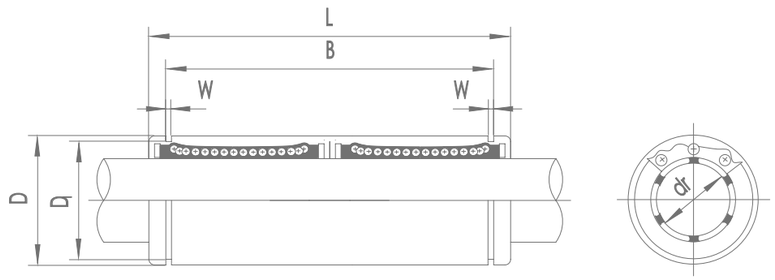



| Steel Type | Ball circuit | Major dimensions and tolerance | | | | | | | | | | Eccentrcity (μm) | Basic load rating | | Weight (g) | Nominal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | dr | | D | | L | | B | | W | D1 | | dynamic (CN) | static (Co N) | | |
| | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | | | | | |
| LME8L-UU | 4 | 8 | +9 -1 | 16 | 0 -9 | 46 | 0 -300 | 33 | 0 -300 | 1.1 | 15.2 | 15 | 421 | 804 | 40 | 8 |
| LME12L-UU | 4 | 12 | +9 -1 | 22 | 0 -11 | 61 | 0 -300 | 45.8 | 0 -300 | 1.3 | 21 | 15 | 813 | 1,570 | 80 | 12 |
| LME16L-UU | 4 | 16 | +11 -1 | 26 | 0 -11 | 68 | 0 -300 | 49.8 | 0 -300 | 1.3 | 24.9 | 15 | 921 | 1,780 | 115 | 16 |
| LME20L-UU | 5 | 20 | +11 -1 | 32 | 0 -13 | 80 | 0 -300 | 61 | 0 -300 | 1.6 | 30.5 | 17 | 1,370 | 2,740 | 180 | 20 |
| LME25L-UU | 6 | 25 | +13 -2 | 40 | 0 -13 | 112 | 0 -400 | 82 | 0 -400 | 1.85 | 38 | 17 | 1,570 | 3,140 | 430 | 25 |
| LME30L-UU | 6 | 30 | +13 -2 | 47 | 0 -13 | 123 | 0 -400 | 104.2 | 0 -400 | 1.85 | 44.5 | 17 | 2,500 | 5,490 | 615 | 30 |
| LME40L-UU | 6 | 40 | +16 -4 | 62 | 0 -15 | 151 | 0 -400 | 121.2 | 0 -400 | 2.15 | 59 | 20 | 3,430 | 8,040 | 1,400 | 40 |
| LME50L-UU | 6 | 50 | +16 -4 | 75 | 0 -15 | 192 | 0 -400 | 155.2 | 0 -400 | 2.65 | 72 | 20 | 6,080 | 15,900 | 2,320 | 50 |
| LME60L-UU | 6 | 60 | +16 -4 | 90 | 0 -20 | 209 | 0 -400 | 170 | 0 -400 | 3.15 | 86.5 | 25 | 7,550 | 20,000 | 3,920 | 60 |

## LMB □ L-UU



LMB-LUU




### 型号说明
Model Specification

LMB | L | UU

英制轴承 Item | 加长 Long | 密封 Seals

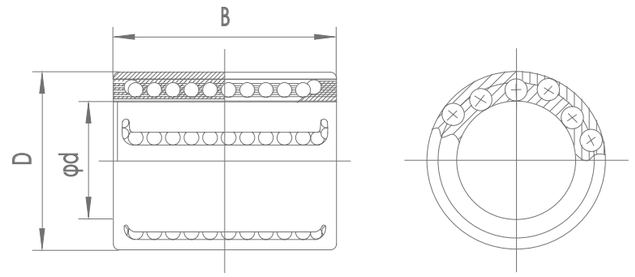
| Steel Type | Ball circuit | dr | | D | | L | | B | | W | D1 | Radial clearance(Max) Inch/μm | Basic load rating | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | inch mm | Tolerance (μm) | inch mm | Tolerance (μm) | inch mm | Tolerance (μm) | inch mm | Tolerance (μm) | Inch mm | Inch mm | | dynamic (CN) | static (Co N) |
| LMB4L-UU | 3* | .2500 6.350 | 0-.00040 0 10 | .5000 12.700 | 0-.00050 0 13 | 1.3750 34.925 | 0 -.012 0 -300 | 1.0220 25.959 | 0 -.012 0 -300 | .0390 0.992 | .4687 11.906 | - | 323 | 530 |
| LMB6L-UU | 4 | .3750 9.525 | 0-.00040 0 10 | .6250 15.785 | 0-.00065 0 -16 | 1.5938 40.481 | 0 -.012 0 -300 | 1.2716 32.298 | 0 -.012 0 -300 | .0390 0.992 | .5880 14.935 | .0006 | 353 | 630 |
| LMB8L-UU | 4 | .5000 12.700 | 0-.00040 0 10 | .8750 22.225 | 0-.00065 0 -16 | 2.3750 60.325 | 0 -.012 0 -300 | 1.9250 48.895 | 0 -.012 0 -300 | .0459 1.168 | .8209 20.853 | 15 | 813 | 1,570 |
| LMB 10L-UU | 4 | .6250 15.875 | 0-.00040 0 10 | 1.1250 28.575 | 0-.00065 0 -16 | 2.8125 71.438 | 0 -.012 0 -300 | 2.2079 56.080 | 0 -.012 0 -300 | .0559 1.422 | 1.0590 26.899 | - | 1,230 | 2,350 |
| LMB 12L-UU | 5 | .7500 19.050 | 0-.00050 0 -12 | 1.2500 31.750 | 0-.00075 0 -19 | 3.0937 78.581 | 0 -.012 0 -300 | 2.3314 59.218 | 0 -.012 0 -300 | .0559 1.422 | 1.1760 29.870 | .0008 | 1,370 | 2,740 |
| LMB 16L-UU | 6 | 1.0000 25.400 | 0-.00050 0 -12 | 1.5625 39.688 | 0-.00075 0 -19 | 4.2813 108.744 | 0 -.016 0 -400 | 3.5094 89.139 | 0 -.016 0 -400 | .0679 1.727 | 1.4687 37.306 | 20 | 1,570 | 3,140 |
| LMB 20L-UU | 6 | 1.2500 31.750 | 0-.00060 0 -15 | 2.0000 50.800 | 0-.00090 0 -22 | 5.0000 127.000 | 0 -.016 0 -400 | 4.0094 101.839 | 0 -.016 0 -400 | .0679 1.727 | 1.8859 47.904 | .0010 | 2,500 | 5,490 |
| LMB 24L-UU | 6 | 1.5000 38.100 | 0-.00060 0 -15 | 2.3750 60.325 | 0-.00090 0 -22 | 5.6875 144.463 | 0 -.016 0 -400 | 4.8236 122.519 | 0 -.016 0 -400 | .0859 2.184 | 2.2389 56.870 | 25 | 3,430 | 8,040 |
| LMB 32L-UU | 6 | 2.0000 50.800 | 0-.00060 0 -15 | 3.0000 76.200 | 0 -.00100 0 -25 | 7.7500 196.850 | 0 -.016 0 -400 | 6.3834 162.138 | 0 -.016 0 -400 | .1029 2.616 | 2.8379 72.085 | .0012 30 | 6,080 | 15,900 |



## KH-PP



KH-PP




### 型号表示法
Type number format

KH 20 30 PP

KH 型直线轴承
KH-Mini(Pressing Bush)Linear Bearing

钢球总体内径
Shaft Diameter

长度尺寸
Length Dimension

P- 单密封 PP- 双密封
P=seal on one side,PP=seals one both sides

| Type | | Number of ball rows | Weight (g) | Main dimension (mm) | | | Basic load rating | |
|---|---|---|---|---|---|---|---|---|
| | | | | d | D | b | dynamic (C N) | static (Co N) |
| KH 0824 | KH 0824-PP | 4 | 11.3 | 8 | 15 | 24 | 435 | 280 |
| KH 1026 | KH 1026-PP | 4 | 14.4 | 10 | 17 | 26 | 500 | 370 |
| KH 1228 | KH 1228-PP | 5 | 18.1 | 12 | 19 | 28 | 620 | 510 |
| KH 1428 | KH 1428-PP | 5 | 20.6 | 14 | 21 | 28 | 620 | 520 |
| KH 1630 | KH 1630-PP | 5 | 27.2 | 16 | 24 | 30 | 800 | 620 |
| KH 2030 | KH 2030-PP | 6 | 32.7 | 20 | 28 | 30 | 950 | 790 |
| KH 2540 | KH 2540-PP | 6 | 66 | 25 | 35 | 40 | 1990 | 1670 |
| KH 3050 | KH 3050-PP | 7 | 95 | 30 | 40 | 50 | 2800 | 2700 |
| KH 4060 | KH 4060-PP | 8 | 180 | 40 | 52 | 60 | 4400 | 4450 |
| KH 5070 | KH 5070-PP | 9 | 250 | 50 | 62 | 70 | 5500 | 6300 |

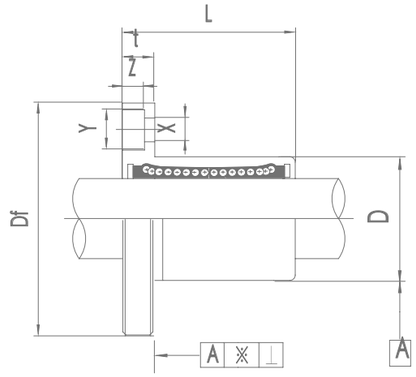
# SDMF-UU/SDMK-UU



SDMF-UU



SDMK-UU

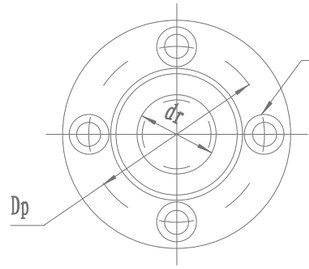



| Nomlnal shaft diameter (mm) | Part No. | Weight (g) | Major dimenslons and tolerance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Steel | | dr | | D | | Df | L | |
| | SDF(K) | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | Tolerance (μm) |
| 6 | SDMF 6-UU<br>SDMK 6-UU | 24<br>18 | 6 | 0 -9 | 12 | 0 -13 | 28 | 19 | ±300 |
| 8 | SDMF 8S-UU<br>SDMK 8S-UU | 32<br>24 | 8 | 0 -9 | 15 | 0 -13 | 32 | 17 | ±300 |
| 8 | SDMF 8-UU<br>SDMK 8-UU | 37<br>29 | 8 | 0 -9 | 15 | 0 -13 | 32 | 24 | ±300 |
| 10 | SDMF 10-UU<br>SDMK 10-UU | 72<br>52 | 10 | 0 -9 | 19 | 0 -16 | 40 | 29 | ±300 |
| 12 | SDMF 12-UU<br>SDMK 12-UU | 76<br>57 | 12 | 0 -9 | 21 | 0 -16 | 42 | 30 | ±300 |
| 13 | SDMF 13-UU<br>SDMK 13-UU | 88<br>72 | 13 | 0 -9 | 23 | 0 -16 | 43 | 32 | ±300 |
| 16 | SDMF 16-UU<br>SDMK 16-UU | 120<br>104 | 16 | 0 -9 | 28 | 0 -16 | 48 | 37 | ±300 |
| 20 | SDMF 20-UU<br>SDMK 20-UU | 180<br>145 | 20 | 0 -10 | 32 | 0 -19 | 54 | 42 | ±300 |
| 25 | SDMF 25-UU<br>SDMK 25-UU | 340<br>300 | 25 | 0 -10 | 40 | 0 -19 | 62 | 59 | ±300 |
| 30 | SDMF 30-UU<br>SDMK 30-UU | 470<br>375 | 30 | 0 -10 | 45 | 0 -19 | 74 | 64 | ±300 |
| 35 | SDMF 35-UU<br>SDMK 35-UU | 650<br>560 | 35 | 0 -12 | 52 | 0 -22 | 82 | 70 | ±300 |
| 40 | SDMF 40-UU<br>SDMK 40-UU | 1060<br>880 | 40 | 0 -12 | 60 | 0 -22 | 96 | 80 | ±300 |
| 50 | SDMF 50-UU<br>SDMK 50-UU | 2200<br>2000 | 50 | 0 -12 | 80 | 0 -22 | 116 | 100 | ±300 |
| 60 | SDMF 60-UU<br>SDMK 60-UU | 3000<br>2560 | 60 | 0 -15 | 90 | 0 -25 | 134 | 110 | ±300 |
| 80 | SDMF 80-UU<br>SDMK 80-UU | 5800<br>5300 | 80 | 0 -15 | 120 | 0 -25 | 164 | 140 | ±300 |
| 100 | SDMF 100-UU<br>SDMK 100-UU | 10600<br>9900 | 100 | 0 -20 | 150 | 0 -29 | 200 | 175 | ±300 |

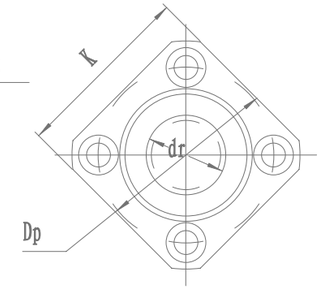


OBD

SDMF-UU/SDMK-UU




SDMF-UU



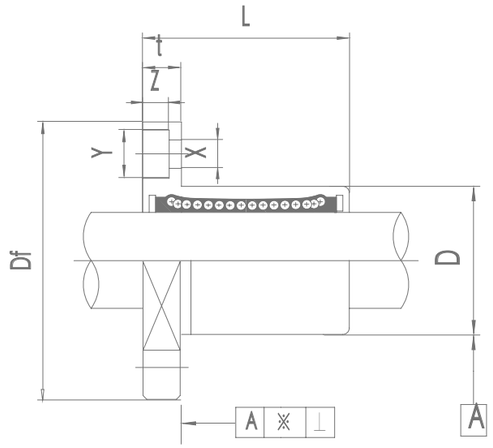

SDMK-UU

| Part No. | Major dimenslons and tolerance | | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | | dynamic (C N) | static (Co N) | |
| SDF(K) | K mm | t mm | Dp mm | X mm | Y mm | Z mm | | | | | |
| SDMF 6-UU<br>SDMK 6-UU | 22 | 5 | 20 | 3.5 | 6 | 3.1 | 12 | 12 | 206 | 265 | 6 |
| SDMF 8S-UU<br>SDMK 8S-UU | 25 | 5 | 24 | 3.5 | 6 | 3.1 | 12 | 12 | 176 | 216 | 8 |
| SDMF 8-UU<br>SDMK 8-UU | 25 | 5 | 24 | 3.5 | 6 | 3.1 | 12 | 12 | 274 | 392 | 8 |
| SDMF 10-UU<br>SDMK 10-UU | 30 | 6 | 29 | 4.5 | 7.5 | 4.1 | 12 | 12 | 372 | 549 | 10 |
| SDMF 12-UU<br>SDMK 12-UU | 32 | 6 | 32 | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | 12 |
| SDMF 13-UU<br>SDMK 13-UU | 34 | 6 | 33 | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | 13 |
| SDMF 16-UU<br>SDMK 16-UU | 37 | 6 | 38 | 4.5 | 7.5 | 4.1 | 12 | 12 | 774 | 1180 | 16 |
| SDMF 20-UU<br>SDMK 20-UU | 42 | 8 | 43 | 5.5 | 9 | 5.1 | 15 | 15 | 882 | 1370 | 20 |
| SDMF 25-UU<br>SDMK 25-UU | 50 | 8 | 51 | 5.5 | 9 | 5.1 | 15 | 15 | 980 | 1570 | 25 |
| SDMF 30-UU<br>SDMK 30-UU | 58 | 10 | 60 | 6.6 | 11 | 6.1 | 15 | 15 | 1570 | 2740 | 30 |
| SDMF 35-UU<br>SDMK 35-UU | 64 | 10 | 67 | 6.6 | 11 | 6.1 | 20 | 20 | 1670 | 3140 | 35 |
| SDMF 40-UU<br>SDMK 40-UU | 75 | 13 | 78 | 9 | 14 | 8.1 | 20 | 20 | 2160 | 4020 | 40 |
| SDMF 50-UU<br>SDMK 50-UU | 92 | 13 | 98 | 9 | 14 | 8.1 | 20 | 20 | 3820 | 7940 | 50 |
| SDMF 60-UU<br>SDMK 60-UU | 106 | 18 | 112 | 11 | 17 | 11.1 | 25 | 25 | 4700 | 10000 | 60 |
| SDMF 80-UU<br>SDMK 80-UU | 136 | 18 | 142 | 11 | 17 | 11.1 | 25 | 25 | 7350 | 16000 | 80 |
| SDMF 100-UU<br>SDMK 100-UU | 170 | 20 | 175 | 14 | 20 | 13.1 | 30 | 30 | 14100 | 34800 | 100 |

# SDMH-UU



This type is a metric dimension series widely used in Japan and other countries.



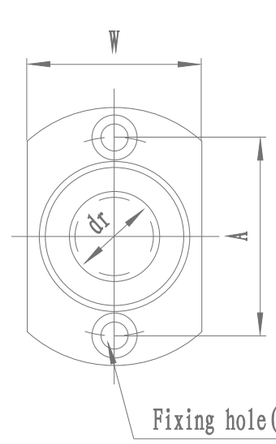

| Nomlnal shaft diameter (mm) | Part No. | Weight (g) | Major dimenslons and tolerance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Steel | | dr | | D | | Df | L | |
| | SDMH… | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | Tolerance (μm) |
| 6 | SDMH 6-UU | 21 | 6 | 0 -9 | 12 | 0 -13 | 28 | 19 | ±300 |
| 8 | SDMH 8-UU | 33 | 8 | 0 -9 | 15 | 0 -13 | 32 | 24 | ±300 |
| 10 | SDMH 10-UU | 64 | 10 | 0 -9 | 19 | 0 -16 | 40 | 29 | ±300 |
| 12 | SDMH 12-UU | 68 | 12 | 0 -9 | 21 | 0 -16 | 42 | 30 | ±300 |
| 13 | SDMH 13-UU | 81 | 13 | 0 -9 | 23 | 0 -16 | 43 | 32 | ±300 |
| 16 | SDMH 16-UU | 112 | 16 | 0 -9 | 28 | 0 -16 | 48 | 37 | ±300 |
| 20 | SDMH 20-UU | 167 | 20 | 0 -10 | 32 | 0 -19 | 54 | 42 | ±300 |
| 25 | SDMH 25-UU | 325 | 25 | 0 -10 | 40 | 0 -19 | 62 | 59 | ±300 |
| 30 | SDMH 30-UU | 388 | 30 | 0 -10 | 45 | 0 -19 | 74 | 64 | ±300 |

Note: All sizes of SDMH type are sealed on both sides.

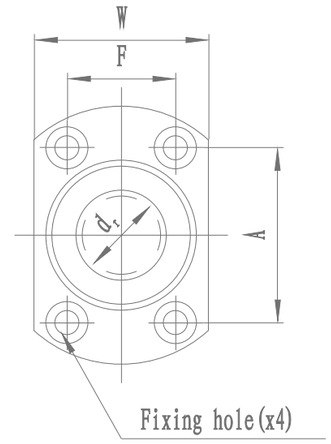


OBD

SDMH-UU




SDMH 13 or less




SDMH 16 or more

| Part No. | Major dimenslons and tolerance | | | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | | | dynamic (C N) | static (Co N) | |
| SDMH… | W mm | t mm | A mm | F mm | X mm | Y mm | Z mm | | | | | |
| SDMH 6-UU | 18 | 5 | 20 | - | 3.5 | 6 | 3.1 | 12 | 12 | 206 | 265 | 6 |
| SDMH 8-UU | 21 | 5 | 24 | - | 3.5 | 6 | 3.1 | 12 | 12 | 274 | 392 | 8 |
| SDMH 10-UU | 25 | 6 | 29 | - | 4.5 | 7.5 | 4.1 | 12 | 12 | 372 | 549 | 10 |
| SDMH 12-UU | 27 | 6 | 32 | - | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | 12 |
| SDMH 13-UU | 29 | 6 | 33 | - | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | 13 |
| SDMH 16-UU | 34 | 6 | 31 | 22 | 4.5 | 7.5 | 4.1 | 12 | 12 | 774 | 1180 | 16 |
| SDMH 20-UU | 38 | 8 | 36 | 24 | 5.5 | 9 | 5.1 | 15 | 15 | 882 | 1370 | 20 |
| SDMH 25-UU | 46 | 8 | 40 | 32 | 5.5 | 9 | 5.1 | 15 | 15 | 980 | 1570 | 25 |
| SDMH 30-UU | 51 | 10 | 49 | 35 | 6.6 | 11 | 6.1 | 15 | 15 | 1570 | 2740 | 30 |

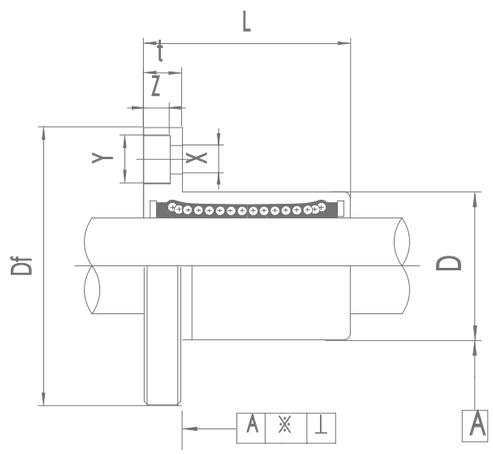
## SDEF-UU/SDEK-UU



SDEF



SDEK

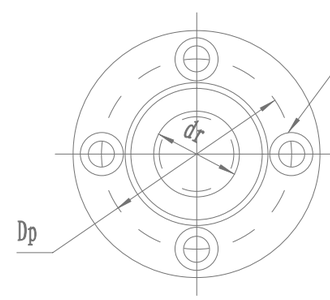



| Nomlnal shaft diameter (mm) | Part No. | Weight (g) | Major dimenslons and tolerance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Steel | | dr | | D | | Df | L | |
| | SDEF(K) | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | Tolerance (μm) |
| 8 | SDEF 8-UU<br>SDEK 8-UU | 41<br>33 | 8 | +8 0 | 16 | 0 -13 | 32 | 25 | ±300 |
| 12 | SDEF 12-UU<br>SDEK 12-UU | 80<br>64 | 12 | +8 0 | 22 | 0 -16 | 42 | 32 | ±300 |
| 16 | SDEF 16-UU<br>SDEK 16-UU | 103<br>90 | 16 | +9 -1 | 26 | 0 -16 | 46 | 36 | ±300 |
| 20 | SDEF 20-UU<br>SDEK 20-UU | 182<br>147 | 20 | +9 -1 | 32 | 0 -19 | 54 | 45 | ±300 |
| 25 | SDEF 25-UU<br>SDEK 25-UU | 335<br>295 | 25 | +11 -1 | 40 | 0 -19 | 62 | 58 | ±300 |
| 30 | SDEF 30-UU<br>SDEK 30-UU | 560<br>465 | 30 | +11 -1 | 47 | 0 -19 | 76 | 68 | ±300 |
| 40 | SDEF 40-UU<br>SDEK 40-UU | 1175<br>975 | 40 | +13 -2 | 62 | 0 -22 | 98 | 80 | ±300 |
| 50 | SDEF 50-UU<br>SDEK 50-UU | 1745<br>1545 | 50 | +13 -2 | 75 | 0 -22 | 112 | 100 | ±300 |
| 60 | SDEF 60-UU<br>SDEK 60-UU | 3220<br>2780 | 60 | +13 -2 | 90 | 0 -25 | 134 | 125 | ±300 |
| 80 | SDEF 80-UU<br>SDEK 80-UU | 6420<br>5920 | 80 | +16 -4 | 120 | 0 -25 | 164 | 165 | ±300 |

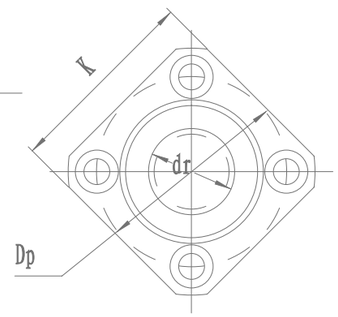




## SDEF-UU/SDEK-UU



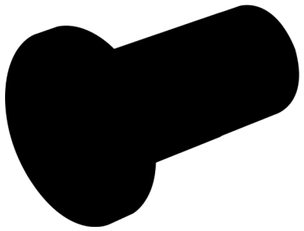

SDEF




SDEK

| Part No. | Major dimenslons and tolerance | | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | | dynamic (C N) | static (Co N) | |
| SDEF(K) | K mm | t mm | Dp mm | X mm | Y mm | Z mm | | | | | |
| SDEF 8-UU<br>SDEK 8-UU | 25 | 5 | 24 | 3.5 | 6 | 3.1 | 12 | 12 | 265 | 402 | 8 |
| SDEF 12-UU<br>SDEK 12-UU | 32 | 6 | 32 | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | 12 |
| SDEF 16-UU<br>SDEK 16-UU | 35 | 6 | 36 | 4.5 | 7.5 | 4.1 | 12 | 12 | 578 | 892 | 16 |
| SDEF 20-UU<br>SDEK 20-UU | 42 | 8 | 43 | 5.5 | 9 | 5.1 | 12 | 12 | 862 | 1370 | 20 |
| SDEF 25-UU<br>SDEK 25-UU | 50 | 8 | 51 | 5.5 | 9 | 5.1 | 15 | 15 | 980 | 1570 | 25 |
| SDEF 30-UU<br>SDEK 30-UU | 60 | 10 | 62 | 6.6 | 11 | 6.1 | 15 | 15 | 1570 | 2740 | 30 |
| SDEF 40-UU<br>SDEK 40-UU | 75 | 13 | 80 | 9 | 14 | 8.1 | 15 | 15 | 2160 | 4020 | 40 |
| SDEF 50-UU<br>SDEK 50-UU | 88 | 13 | 94 | 9 | 14 | 8.1 | 17 | 17 | 3820 | 7940 | 50 |
| SDEF 60-UU<br>SDEK 60-UU | 106 | 18 | 112 | 11 | 17 | 11.1 | 17 | 17 | 4700 | 9800 | 60 |
| SDEF 80-UU<br>SDEK 80-UU | 136 | 18 | 142 | 11 | 17 | 11.1 | 20 | 20 | 7350 | 16000 | 80 |

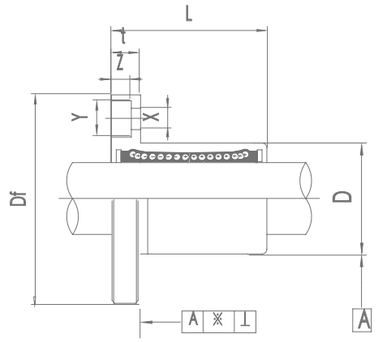
# LMF-UU/ LMK-UU



LMF



LMK

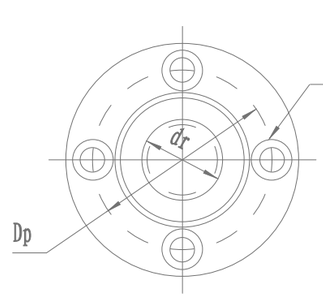



| Nomlnal shaft diameter (mm) | Part No. | Weight (g) | Major dimenslons and tolerance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Steel | | dr | | D | | Df | L | |
| | LMF(K)…UU | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | Tolerance (μm) |
| 6 | LMF 6-UU<br>LMK 6-UU | 24<br>18 | 6 | 0 -9 | 12 | 0 -13 | 28 | 19 | ±300 |
| 8 | LMF 8S-UU<br>LMK 8S-UU | 32<br>24 | 8 | 0 -9 | 15 | 0 -13 | 32 | 17 | ±300 |
| 8 | LMF 8-UU<br>LMK 8-UU | 37<br>29 | 8 | 0 -9 | 15 | 0 -13 | 32 | 24 | ±300 |
| 10 | LMF 10-UU<br>LMK 10-UU | 72<br>52 | 10 | 0 -9 | 19 | 0 -16 | 40 | 29 | ±300 |
| 12 | LMF 12-UU<br>LMK 12-UU | 76<br>57 | 12 | 0 -9 | 21 | 0 -16 | 42 | 30 | ±300 |
| 13 | LMF 13-UU<br>LMK 13-UU | 88<br>72 | 13 | 0 -9 | 23 | 0 -16 | 43 | 32 | ±300 |
| 16 | LMF 16-UU<br>LMK 16-UU | 120<br>104 | 16 | 0 -9 | 28 | 0 -16 | 48 | 37 | ±300 |
| 20 | LMF 20-UU<br>LMK 20-UU | 180<br>145 | 20 | 0 -10 | 32 | 0 -19 | 54 | 42 | ±300 |
| 25 | LMF 25-UU<br>LMK 26-UU | 340<br>300 | 25 | 0 -10 | 40 | 0 -19 | 62 | 59 | ±300 |
| 30 | LMF 30-UU<br>LMK 30-UU | 470<br>375 | 30 | 0 -10 | 45 | 0 -19 | 74 | 64 | ±300 |
| 35 | LMF 35-UU<br>LMK 35-UU | 650<br>560 | 35 | 0 -12 | 52 | 0 -22 | 82 | 70 | ±300 |
| 40 | LMF 40-UU<br>LMK 40-UU | 1060<br>880 | 40 | 0 -12 | 60 | 0 -22 | 96 | 80 | ±300 |
| 50 | LMF 50-UU<br>LMK 50-UU | 2200<br>2000 | 50 | 0 -12 | 80 | 0 -22 | 116 | 100 | ±300 |
| 60 | LMF 60-UU<br>LMK 60-UU | 3000<br>2560 | 60 | 0 -15 | 90 | 0 -25 | 134 | 110 | ±300 |
| 80 | LMF 80-UU<br>LMK 80-UU | 5800<br>5300 | 80 | 0 -15 | 120 | 0 -25 | 164 | 140 | ±300 |
| 100 | LMF 100-UU<br>LMK 100-UU | 10600<br>9900 | 100 | 0 -20 | 150 | 0 -29 | 200 | 175 | ±300 |

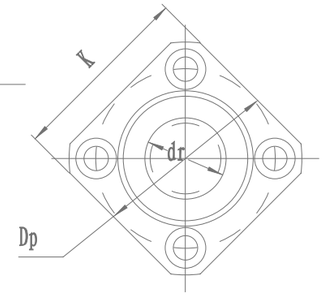


OBD

LMF-UU/ LMK-UU




LMF




LMK

| Part No. | Major dimenslons and tolerance | | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | | dynamic (C N) | static (Co N) | |
| LMF(K)…UU | K mm | t mm | Dp mm | X mm | Y mm | Z mm | | | | | |
| LMF 6-UU<br>LMK 6-UU | 22 | 5 | 20 | 3.5 | 6 | 3.1 | 12 | 12 | 206 | 265 | 6 |
| LMF 8S-UU<br>LMK 8S-UU | 25 | 5 | 24 | 3.5 | 6 | 3.1 | 12 | 12 | 176 | 216 | 8 |
| LMF 8-UU<br>LMK 8-UU | 25 | 5 | 24 | 3.5 | 6 | 3.1 | 12 | 12 | 274 | 392 | 8 |
| LMF 10-UU<br>LMK 10-UU | 30 | 6 | 29 | 4.5 | 7.5 | 4.1 | 12 | 12 | 372 | 549 | 10 |
| LMF 12-UU<br>LMK 12-UU | 32 | 6 | 32 | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | 12 |
| LMF 13-UU<br>LMK 13-UU | 34 | 6 | 33 | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | 13 |
| LMF 16-UU<br>LMK 16-UU | 37 | 6 | 38 | 4.5 | 7.5 | 4.1 | 12 | 12 | 774 | 1180 | 16 |
| LMF 20-UU<br>LMK 20-UU | 42 | 8 | 43 | 5.5 | 9 | 5.1 | 15 | 15 | 882 | 1370 | 20 |
| LMF 25-UU<br>LMK 26-UU | 50 | 8 | 51 | 5.5 | 9 | 5.1 | 15 | 15 | 980 | 1570 | 25 |
| LMF 30-UU<br>LMK 30-UU | 58 | 10 | 60 | 6.6 | 11 | 6.1 | 15 | 15 | 1570 | 2740 | 30 |
| LMF 35-UU<br>LMK 35-UU | 64 | 10 | 67 | 6.6 | 11 | 6.1 | 20 | 20 | 1670 | 3140 | 35 |
| LMF 40-UU<br>LMK 40-UU | 75 | 13 | 78 | 9 | 14 | 8.1 | 20 | 20 | 2160 | 4020 | 40 |
| LMF 50-UU<br>LMK 50-UU | 92 | 13 | 98 | 9 | 14 | 8.1 | 20 | 20 | 3820 | 7940 | 50 |
| LMF 60-UU<br>LMK 60-UU | 106 | 18 | 112 | 11 | 17 | 11.1 | 25 | 25 | 4700 | 10000 | 60 |
| LMF 80-UU<br>LMK 80-UU | 136 | 18 | 142 | 11 | 17 | 11.1 | 25 | 25 | 7350 | 16000 | 80 |
| LMF 100-UU<br>LMK 100-UU | 170 | 20 | 175 | 14 | 20 | 13.1 | 30 | 30 | 14100 | 34800 | 100 |

## LMH-UU



LMH

This type is a metric dimension series widely used in Japan and other countries.

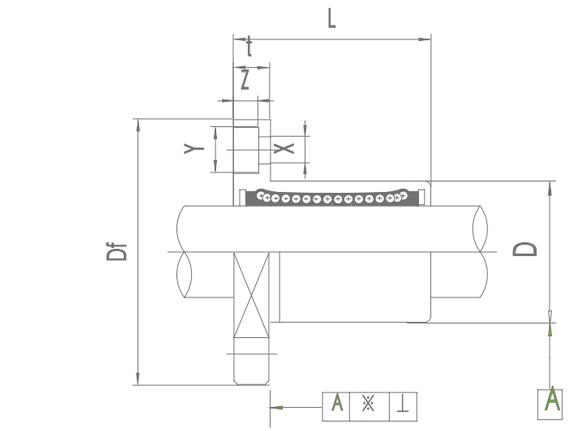
| Nomlnal shaft diameter (mm) | Part No. | Weight (g) | Major dimenslons and tolerance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Steel | | dr | | D | | Df | L | |
| | LMH…UU | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | Tolerance (μm) |
| 6 | LMH 6-UU | 21 | 6 | 0 -9 | 12 | 0 -13 | 28 | 19 | ±300 |
| 8 | LMH 8-UU | 33 | 8 | 0 -9 | 15 | 0 -13 | 32 | 24 | ±300 |
| 10 | LMH 10-UU | 64 | 10 | 0 -9 | 19 | 0 -16 | 40 | 29 | ±300 |
| 12 | LMH 12-UU | 68 | 12 | 0 -9 | 21 | 0 -16 | 42 | 30 | ±300 |
| 13 | LMH 13-UU | 81 | 13 | 0 -9 | 23 | 0 -16 | 43 | 32 | ±300 |
| 16 | LMH 16-UU | 112 | 16 | 0 -9 | 28 | 0 -16 | 48 | 37 | ±300 |
| 20 | LMH 20-UU | 167 | 20 | 0 -10 | 32 | 0 -19 | 54 | 42 | ±300 |
| 25 | LMH 25-UU | 325 | 25 | 0 -10 | 40 | 0 -19 | 62 | 59 | ±300 |
| 30 | LMH 30-UU | 388 | 30 | 0 -10 | 45 | 0 -19 | 74 | 64 | ±300 |

Note: All sizes of SDMH type are sealed on both sides.



OBD

## LMH-UU




LMH 13 or less

LMH 16 or more

| Part No. | Major dimenslons and tolerance | | | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | | | dynamic (C N) | static (Co N) | |
| LMH…UU | W mm | t mm | A mm | F mm | X mm | Y mm | Z mm | | | | | |
| LMH 6-UU | 18 | 5 | 20 | - | 3.5 | 6 | 3.1 | 12 | 12 | 206 | 265 | 6 |
| LMH 8-UU | 21 | 5 | 24 | - | 3.5 | 6 | 3.1 | 12 | 12 | 274 | 392 | 8 |
| LMH 10-UU | 25 | 6 | 29 | - | 4.5 | 7.5 | 4.1 | 12 | 12 | 372 | 549 | 10 |
| LMH 12-UU | 27 | 6 | 32 | - | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | 12 |
| LMH 13-UU | 29 | 6 | 33 | - | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | 13 |
| LMH 16-UU | 34 | 6 | 31 | 22 | 4.5 | 7.5 | 4.1 | 12 | 12 | 774 | 1180 | 16 |
| LMH 20-UU | 38 | 8 | 36 | 24 | 5.5 | 9 | 5.1 | 15 | 15 | 882 | 1370 | 20 |
| LMH 25-UU | 46 | 8 | 40 | 32 | 5.5 | 9 | 5.1 | 15 | 15 | 980 | 1570 | 25 |
| LMH 30-UU | 51 | 10 | 49 | 35 | 6.6 | 11 | 6.1 | 15 | 15 | 1570 | 2740 | 30 |

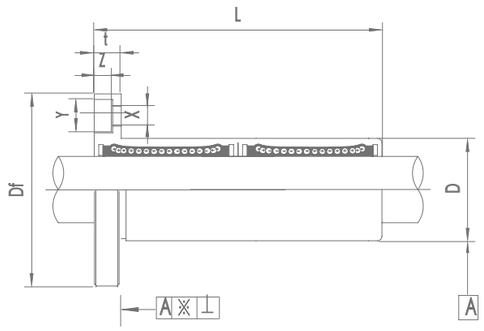
## LMF □ L-UU/LMK □ L-UU



LMF-L



LMK-L

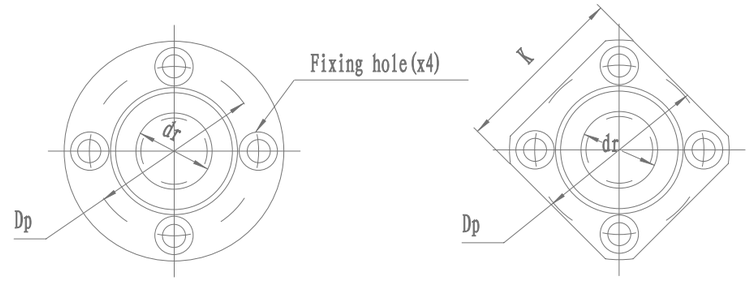



| Nomlnal shaft diameter (mm) | Part No. | Weight (g) | Major dimenslons and tolerance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Steel | | dr | | D | | Df | L | |
| | LMF(K)…LUU | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | Tolerance (μm) |
| 6 | LMF 6L-UU<br>LMK 6L-UU | 31<br>25 | 6 | 0 -10 | 12 | 0 -13 | 28 | 35 | ±300 |
| 8 | LMF 8L-UU<br>LMK 8L-UU | 51<br>43 | 8 | 0 -10 | 15 | 0 -13 | 32 | 45 | ±300 |
| 10 | LMF 10L-UU<br>LMK 10L-UU | 98<br>78 | 10 | 0 -10 | 19 | 0 -16 | 40 | 55 | ±300 |
| 12 | LMF 12L-UU<br>LMK 12L-UU | 110<br>90 | 12 | 0 -10 | 21 | 0 -16 | 42 | 57 | ±300 |
| 13 | LMF 13L-UU<br>LMK 13L-UU | 130<br>108 | 13 | 0 -10 | 23 | 0 -16 | 43 | 61 | ±300 |
| 16 | LMF 16L-UU<br>LMK 16L-UU | 190<br>165 | 16 | 0 -10 | 28 | 0 -16 | 48 | 70 | ±300 |
| 20 | LMF 20L-UU<br>LMK 20L-UU | 260<br>225 | 20 | 0 -12 | 32 | 0 -19 | 54 | 80 | ±300 |
| 25 | LMF 25LUU<br>LMK 26LUU | 540<br>500 | 25 | 0 -12 | 40 | 0 -19 | 62 | 112 | ±300 |
| 30 | LMF 30L-UU<br>LMK 30L-UU | 680<br>590 | 30q | 0 -12 | 45 | 0 -19 | 74 | 123 | ±300 |
| 35 | LMF 35L-UU<br>LMK 35L-UU | 1020<br>930 | 35 | 0 -15 | 52 | 0 -22 | 82 | 135 | ±300 |
| 40 | LMF 40LUU<br>LMK 40LUU | 1570<br>1380 | 40 | 0 -15 | 60 | 0 -22 | 96 | 151 | ±300 |
| 50 | LMF 50L-UU<br>LMK 50L-UU | 3600<br>3400 | 50 | 0 -15 | 80 | 0 -22 | 116 | 192 | ±300 |
| 60 | LMF 60L-UU<br>LMK 60L-UU | 4500<br>4060 | 60 | 0 -20 | 90 | 0 -25 | 134 | 209 | ±300 |



OBD

LMF □ L-UU/LMK □ L-UU




LMF-L

LMK-L

| Part No. | Major dimenslons and tolerance | | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | | dynamic (C N) | static (Co N) | |
| LMF(K)…LUU | K mm | t mm | Dp mm | X mm | Y mm | Z mm | | | | | |
| LMF 6L-UU<br>LMK 6L-UU | 22 | 5 | 20 | 3.5 | 6 | 3.1 | 15 | 15 | 323 | 529 | 6 |
| LMF 8L-UU<br>LMK 8L-UU | 25 | 5 | 24 | 3.5 | 6 | 3.1 | 15 | 15 | 431 | 784 | 8 |
| LMF 10L-UU<br>LMK 10L-UU | 30 | 6 | 29 | 4.5 | 7.5 | 4.1 | 15 | 15 | 588 | 1100 | 10 |
| LMF 12L-UU<br>LMK 12L-UU | 32 | 6 | 32 | 4.5 | 7.5 | 4.1 | 15 | 15 | 813 | 1570 | 12 |
| LMF 13L-UU<br>LMK 13L-UU | 34 | 6 | 33 | 4.5 | 7.5 | 4.1 | 15 | 15 | 813 | 1570 | 13 |
| LMF 16L-UU<br>LMK 16L-UU | 37 | 6 | 38 | 4.5 | 7.5 | 4.1 | 15 | 15 | 1230 | 2350 | 16 |
| LMF 20L-UU<br>LMK 20L-UU | 42 | 8 | 43 | 5.5 | 9 | 5.1 | 20 | 20 | 1400 | 2740 | 20 |
| LMF 25L-UU<br>LMK 26L-UU | 50 | 8 | 51 | 5.5 | 9 | 5.1 | 20 | 20 | 1560 | 3140 | 25 |
| LMF 30L-UU<br>LMK 30L-UU | 58 | 10 | 60 | 6.6 | 11 | 6.1 | 20 | 20 | 2490 | 5490 | 30 |
| LMF 35L-UU<br>LMK 35L-UU | 64 | 10 | 67 | 6.6 | 11 | 6.1 | 25 | 25 | 2650 | 6270 | 35 |
| LMF 40L-UU<br>LMK 40L-UU | 75 | 13 | 78 | 9 | 14 | 8.1 | 25 | 25 | 3430 | 8040 | 40 |
| LMF 50L-UU<br>LMK 50L-UU | 92 | 13 | 98 | 9 | 14 | 8.1 | 25 | 25 | 6080 | 15900 | 50 |
| LMF 60L-UU<br>LMK 60L-UU | 106 | 18 | 112 | 11 | 17 | 11.1 | 30 | 30 | 7550 | 20000 | 60 |

## LMH □ L-UU



LMH-L

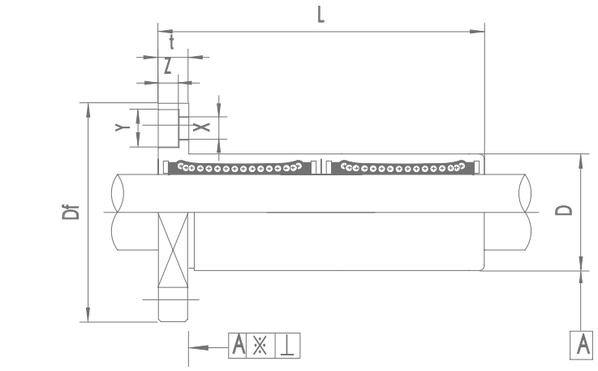
| Nomlnal shaft diameter (mm) | Part No. | Weight (g) | Major dimenslons and tolerance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Steel | | dr | | D | | Df | L | |
| | LMH…LUU | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | Tolerance (μm) |
| 6 | LMH 6L-UU | 28 | 6 | 0 -10 | 12 | 0 -13 | 28 | 35 | ±300 |
| 8 | LMH 8L-UU | 47 | 8 | 0 -10 | 15 | 0 -13 | 32 | 45 | ±300 |
| 10 | LMH 10L-UU | 90 | 10 | 0 -10 | 19 | 0 -16 | 40 | 55 | ±300 |
| 12 | LMH 12L-UU | 102 | 12 | 0 -10 | 21 | 0 -16 | 42 | 57 | ±300 |
| 13 | LMH 13L-UU | 123 | 13 | 0 -10 | 23 | 0 -16 | 43 | 61 | ±300 |
| 16 | LMH 16L-UU | 182 | 16 | 0 -10 | 28 | 0 -16 | 48 | 70 | ±300 |
| 20 | LMH 20L-UU | 247 | 20 | 0 -12 | 32 | 0 -19 | 54 | 80 | ±300 |
| 25 | LMH 25L-UU | 525 | 25 | 0 -12 | 40 | 0 -19 | 62 | 112 | ±300 |
| 30 | LMH 30L-UU | 645 | 30 | 0 -12 | 45 | 0 -19 | 74 | 125 | ±300 |

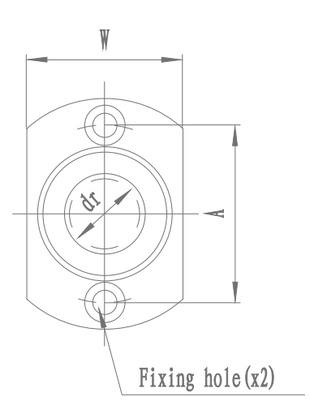
Note:All sizes of LMH type are sealed on both sides.



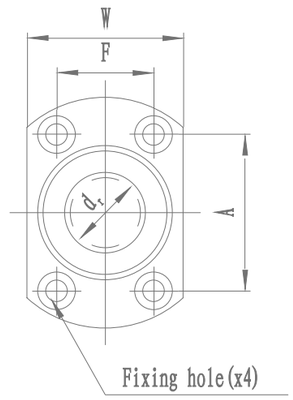


## LMH □ L-UU




LMH 13 or less



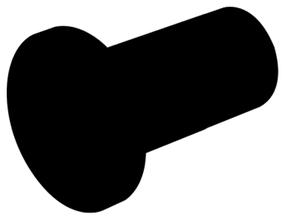

LMH 16 or more

| Part No. | Major dimenslons and tolerance | | | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | | | dynamic (C N) | static (Co N) | |
| LMH…LUU | W mm | t mm | A mm | F mm | X mm | Y mm | Z mm | | | | | |
| LMH 6L-UU | 18 | 5 | 20 | - | 3.5 | 6 | 3.1 | 15 | 15 | 323 | 529 | 6 |
| LMH 8L-UU | 21 | 5 | 24 | - | 3.5 | 6 | 3.1 | 15 | 15 | 431 | 784 | 8 |
| LMH 10L-UU | 25 | 6 | 29 | - | 4.5 | 7.5 | 4.1 | 15 | 15 | 588 | 1100 | 10 |
| LMH 12L-UU | 27 | 6 | 32 | - | 4.5 | 7.5 | 4.1 | 15 | 15 | 813 | 1570 | 12 |
| LMH 13L-UU | 29 | 6 | 33 | - | 4.5 | 7.5 | 4.1 | 15 | 15 | 813 | 1570 | 13 |
| LMH 16L-UU | 34 | 6 | 31 | 22 | 4.5 | 7.5 | 4.1 | 15 | 15 | 1230 | 2350 | 16 |
| LMH 20L-UU | 38 | 8 | 36 | 24 | 5.5 | 9 | 5.1 | 20 | 20 | 1400 | 2740 | 20 |
| LMH 25L-UU | 46 | 8 | 40 | 32 | 5.5 | 9 | 5.1 | 20 | 20 | 1560 | 3140 | 25 |
| LMH 30L-UU | 51 | 10 | 49 | 35 | 6.6 | 11 | 6.1 | 20 | 20 | 2490 | 5490 | 30 |

# LMEF-UU/LMEK-UU



LMEK



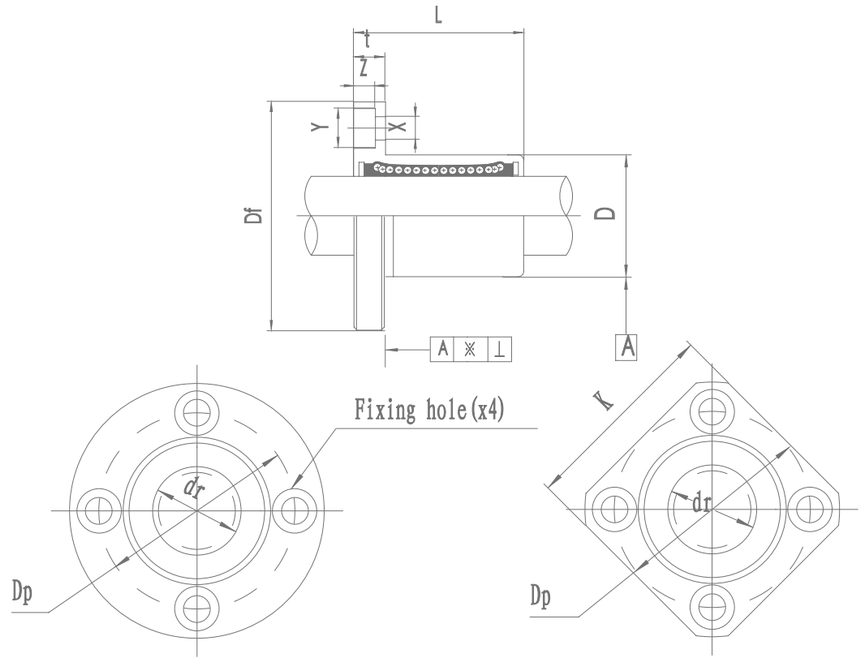
LMEF

| Nomlnal shaft diameter (mm) | Part No. | Weight (g) | Major dimenslons and tolerance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Steel | | dr | | D | | Df | L | |
| | LMEF(K)…UU | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | Tolerance (μm) |
| 8 | LMEF 8-UU<br>LMEK 8-UU | 41<br>33 | 8 | +8 0 | 16 | 0 -13 | 32 | 25 | ±300 |
| 12 | LMEF 12-UU<br>LMEK 12-UU | 80<br>64 | 12 | +8 0 | 22 | 0 -16 | 42 | 32 | ±300 |
| 16 | LMEF 16-UU<br>LMEK 16-UU | 103<br>90 | 16 | +9 -1 | 26 | 0 -16 | 46 | 36 | ±300 |
| 20 | LMEF 20-UU<br>LMEK 20-UU | 182<br>147 | 20 | +9 -1 | 32 | 0 -19 | 54 | 45 | ±300 |
| 25 | LMEF 25-UU<br>LMEK 25-UU | 335<br>295 | 25 | +11 -1 | 40 | 0 -19 | 62 | 58 | ±300 |
| 30 | LMEF 30-UU<br>LMEK 30-UU | 560<br>465 | 30 | +11 -1 | 47 | 0 -19 | 76 | 68 | ±300 |
| 40 | LMEF 40-UU<br>LMEK 40-UU | 1175<br>975 | 40 | +13 -2 | 62 | 0 -22 | 98 | 80 | ±300 |
| 50 | LMEF 50-UU<br>LMEK 50-UU | 1745<br>1545 | 50 | +13 -2 | 75 | 0 -22 | 112 | 100 | ±300 |
| 60 | LMEF 60-UU<br>LMEK 60-UU | 3220<br>2780 | 60 | +13 -2 | 90 | 0 -25 | 134 | 125 | ±300 |
| 80 | LMEF 80-UU<br>LMEK 80-UU | 6420<br>5920 | 80 | +16 -4 | 120 | 0 -25 | 164 | 165 | ±300 |



OBD

LMEF-UU/LMEK-UU




LMEF LMEK

| Part No. | Major dimenslons and tolerance | | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | | dynamic (C N) | static (Co N) | |
| LMEF(K)…UU | K mm | t mm | Dp mm | X mm | Y mm | Z mm | | | | | |
| LMEF 8-UU<br>LMEK 8-UU | 25 | 5 | 24 | 3.5 | 6 | 3.1 | 12 | 12 | 265 | 402 | 8 |
| LMEF 12-UU<br>LMEK 12-UU | 32 | 6 | 32 | 4.5 | 7.5 | 4.1 | 12 | 12 | 510 | 784 | 12 |
| LMEF 16-UU<br>LMEK 16-UU | 35 | 6 | 36 | 4.5 | 7.5 | 4.1 | 12 | 12 | 578 | 892 | 16 |
| LMEF 20-UU<br>LMEK 20-UU | 42 | 8 | 43 | 5.5 | 9 | 5.1 | 12 | 12 | 862 | 1370 | 20 |
| LMEF 25-UU<br>LMEK 25-UU | 50 | 8 | 51 | 5.5 | 9 | 5.1 | 15 | 15 | 980 | 1570 | 25 |
| LMEF 30-UU<br>LMEK 30-UU | 60 | 10 | 62 | 6.6 | 11 | 6.1 | 15 | 15 | 1570 | 2740 | 30 |
| LMEF 40-UU<br>LMEK 40-UU | 75 | 13 | 80 | 9 | 14 | 8.1 | 15 | 15 | 2160 | 4020 | 40 |
| LMEF 50-UU<br>LMEK 50-UU | 88 | 13 | 94 | 9 | 14 | 8.1 | 17 | 17 | 3820 | 7940 | 50 |
| LMEF 60-UU<br>LMEK 60-UU | 106 | 18 | 112 | 11 | 17 | 11.1 | 17 | 17 | 4700 | 9800 | 60 |
| LMEF 80-UU<br>LMEK 80-UU | 136 | 18 | 142 | 11 | 17 | 11.1 | 20 | 20 | 7350 | 16000 | 80 |

## LMEF □ L-UU/LMEK □ L-UU



LMEK-L



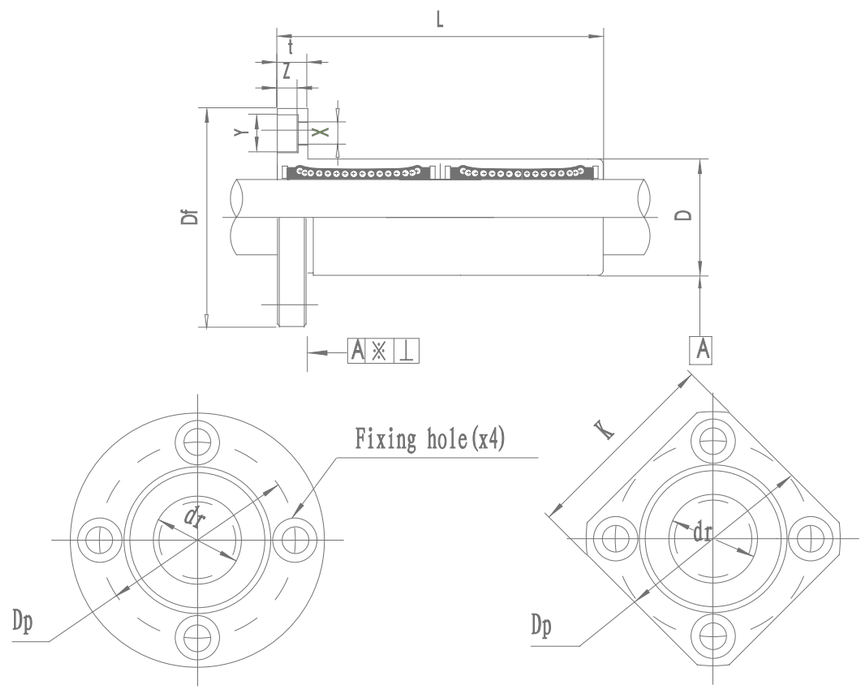
LMEF-L

| Nomlnal shaft diameter (mm) | Part No. | Weight (g) | Major dimenslons and tolerance | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Steel | | dr | | D | | Df | L | |
| | LMEF(K)…LUU | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | mm | Tolerance (μm) |
| 8 | LMEF 8L-UU<br>LMEK 8L-UU | 59<br>51 | 8 | +8 0 | 16 | 0 -13 | 32 | 46 | ±300 |
| 12 | LMEF 12L-UU<br>LMEK 12L-UU | 110<br>90 | 12 | +8 0 | 22 | 0 -16 | 42 | 61 | ±300 |
| 16 | LMEF 16L-UU<br>LMEK 16L-UU | 160<br>135 | 16 | +9 -1 | 26 | 0 -16 | 46 | 68 | ±300 |
| 20 | LMEF 20L-UU<br>LMEK 20L-UU | 260<br>225 | 20 | +9 -1 | 32 | 0 -19 | 54 | 80 | ±300 |
| 25 | LMEF 25L-UU<br>LMEK 25L-UU | 540<br>500 | 25 | +11 -1 | 40 | 0 -19 | 62 | 112 | ±300 |
| 30 | LMEF 30L-UU<br>LMEK 30L-UU | 815<br>720 | 30 | +11 -1 | 47 | 0 -19 | 76 | 123 | ±300 |
| 40 | LMEF 40L-UU<br>LMEK 40L-UU | 1805<br>1600 | 40 | +13 -2 | 62 | 0 -22 | 98 | 151 | ±300 |
| 50 | LMEF 50L-UU<br>LMEK 50L-UU | 2820<br>2620 | 50 | +13 -2 | 75 | 0 -22 | 112 | 192 | ±300 |
| 60 | LMEF 60L-UU<br>LMEK 60L-UU | 4920<br>4480 | 60 | +13 -2 | 90 | 0 -25 | 134 | 209 | ±300 |



OBD

LMEF □ L-UU/LMEK □ L-UU




LMEF-L　　LMEK-L

| Part No. | Major dimenslons and tolerance | | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | | dynamic (C N) | static (Co N) | |
| LMEF(K)…LUU | K mm | t mm | Dp mm | X mm | Y mm | Z mm | | | | | |
| LMEF 8L-UU<br>LMEK 8L-UU | 25 | 5 | 24 | 3.5 | 6 | 3.1 | 15 | 15 | 421 | 804 | 8 |
| LMEF 12L-UU<br>LMEK 12L-UU | 32 | 6 | 32 | 4.5 | 7.5 | 4.1 | 15 | 15 | 813 | 1570 | 12 |
| LMEF 16L-UU<br>LMEK 16L-UU | 35 | 6 | 36 | 4.5 | 7.5 | 4.1 | 15 | 15 | 921 | 1780 | 16 |
| LMEF 20L-UU<br>LMEK 20L-UU | 42 | 8 | 43 | 5.5 | 9 | 5.1 | 17 | 17 | 1370 | 2740 | 20 |
| LMEF 25L-UU<br>LMEK 25L-UU | 50 | 8 | 51 | 5.5 | 9 | 5.1 | 17 | 17 | 1570 | 3140 | 25 |
| LMEF 30L-UU<br>LMEK 30L-UU | 60 | 10 | 62 | 6.6 | 11 | 6.1 | 17 | 17 | 2500 | 5490 | 30 |
| LMEF 40L-UU<br>LMEK 40L-UU | 75 | 13 | 80 | 9 | 14 | 8.1 | 20 | 20 | 3430 | 8040 | 40 |
| LMEF 50L-UU<br>LMEK 50L-UU | 88 | 13 | 94 | 9 | 14 | 8.1 | 20 | 20 | 6080 | 15900 | 50 |
| LMEF 60L-UU<br>LMEK 60L-UU | 106 | 18 | 112 | 11 | 17 | 11.1 | 25 | 25 | 7550 | 20000 | 60 |

## LMFP-UU/LMKP-UU



LMFP



LMKP

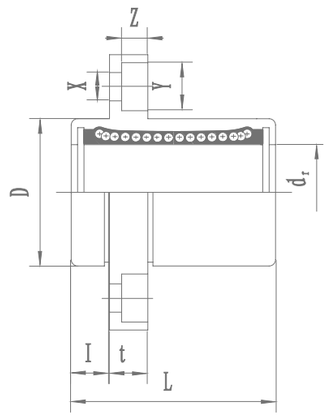
| Nomlnal shaft diame-ter (mm) | Part No. | Major dimenslons and tolerance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Steel | dr | | D | | L | | Flange | | |
| | LMF(K)P…UU | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | I mm | Df mm | K mm |
| 6 | LMFP 6-UU<br>LMKP 6-UU | 6 | 0 -9 | 12 | 0 -13 | 19 | ±300 | 5 | 28 | 22 |
| 8 | LMFP 8-UU<br>LMKP 8-UU | 8 | 0 -9 | 15 | 0 -13 | 24 | ±300 | 5 | 32 | 25 |
| 10 | LMFP 10-UU<br>LMKP 10-UU | 10 | 0 -9 | 19 | 0 -16 | 29 | ±300 | 6 | 40 | 30 |
| 12 | LMFP 12-UU<br>LMKP 12-UU | 12 | 0 -9 | 21 | 0 -16 | 30 | ±300 | 6 | 42 | 32 |
| 13 | LMFP 13-UU<br>LMKP 13-UU | 14 | 0 -9 | 23 | 0 -16 | 32 | ±300 | 6 | 43 | 34 |
| 16 | LMFP 16-UU<br>LMKP 16-UU | 16 | 0 -9 | 28 | 0 -16 | 37 | ±300 | 6 | 48 | 37 |
| 20 | LMFP 20-UU<br>LMKP 20-UU | 18 | 0 -10 | 32 | 0 -19 | 42 | ±300 | 8 | 54 | 42 |
| 25 | LMFP 25-UU<br>LMKP 25-UU | 20 | 0 -10 | 40 | 0 -19 | 59 | ±300 | 8 | 62 | 50 |
| 30 | LMFP 30-UU<br>LMKP 30-UU | 22 | 0 -10 | 45 | 0 -19 | 64 | ±300 | 10 | 74 | 58 |
| 35 | LMFP 35-UU<br>LMKP 35-UU | 24 | 0 -12 | 52 | 0 -22 | 70 | ±300 | 10 | 82 | 64 |
| 40 | LMFP 40-UU<br>LMKP 40-UU | 26 | 0 -12 | 60 | 0 -22 | 80 | ±300 | 13 | 96 | 75 |
| 50 | LMFP 50-UU<br>LMKP 50-UU | 28 | 0 -12 | 80 | 0 -22 | 100 | ±300 | 13 | 116 | 92 |
| 60 | LMFP 60-UU<br>LMKP 60-UU | 30 | 0 -15 | 90 | 0 -25 | 110 | ±300 | 18 | 134 | 106 |

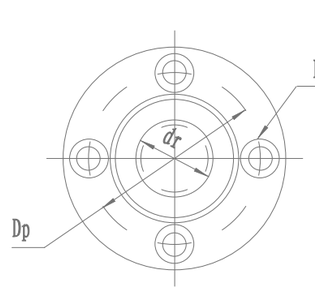
Note:All sizes of LMF-E/LMK-E type are sealed on both sides.



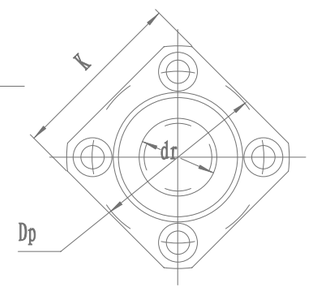


## LMFP-UU/LMKP-UU



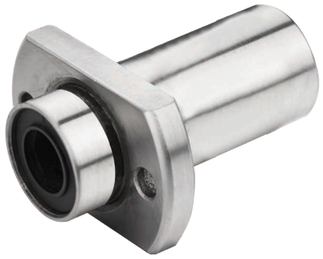

LMFP



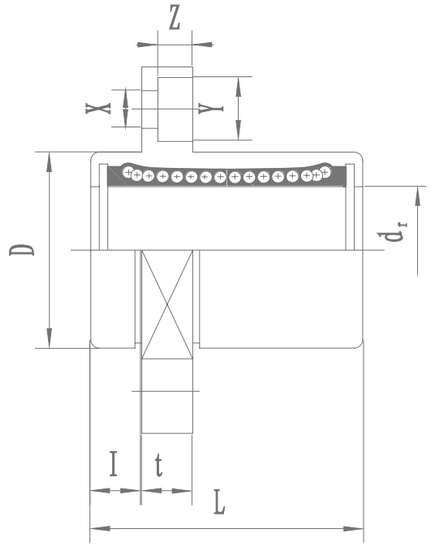

LMKP

| Part No. | Major dimenslons and tolerance | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Weight g | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | dynamic (C N) | static (Co N) | | |
| LMF(K)P…UU | t mm | Dp mm | X mm | Y mm | Z mm | | | | | | |
| LMFP 6-UU<br>LMKP 6-UU | 5 | 20 | 3.5 | 6.5 | 3.1 | 12 | 12 | 206 | 265 | 24<br>18 | 6 |
| LMFP 8-UU<br>LMKP 8-UU | 5 | 24 | 3.5 | 6.5 | 3.1 | 12 | 12 | 274 | 392 | 37<br>29 | 8 |
| LMFP 10-UU<br>LMKP 10-UU | 6 | 29 | 4.5 | 8 | 4.1 | 12 | 12 | 372 | 549 | 72<br>52 | 10 |
| LMFP 12-UU<br>LMKP 12-UU | 6 | 32 | 4.5 | 8 | 4.1 | 12 | 12 | 510 | 784 | 76<br>57 | 12 |
| LMFP 13-UU<br>LMKP 13-UU | 6 | 33 | 4.5 | 8 | 4.1 | 12 | 12 | 510 | 784 | 88<br>72 | 13 |
| LMFP 16-UU<br>LMKP 16-UU | 6 | 38 | 4.5 | 8 | 4.1 | 12 | 12 | 774 | 1180 | 120<br>104 | 16 |
| LMFP 20-UU<br>LMKP 20-UU | 8 | 43 | 5.5 | 9.5 | 5.1 | 15 | 15 | 882 | 1370 | 180<br>145 | 20 |
| LMFP 25-UU<br>LMKP 25-UU | 8 | 51 | 5.5 | 9.5 | 5.1 | 15 | 15 | 980 | 1570 | 340<br>300 | 25 |
| LMFP 30-UU<br>LMKP 30-UU | 10 | 60 | 6.6 | 11 | 6.1 | 15 | 15 | 1570 | 2740 | 470<br>375 | 30 |
| LMFP 35-UU<br>LMKP 35-UU | 10 | 67 | 6.6 | 11 | 6.1 | 20 | 20 | 1670 | 3140 | 650<br>560 | 35 |
| LMFP 40-UU<br>LMKP 40-UU | 13 | 78 | 9 | 14 | 8.1 | 20 | 20 | 2160 | 4020 | 1060<br>880 | 40 |
| LMFP 50-UU<br>LMKP 50-UU | 13 | 98 | 9 | 14 | 8.1 | 20 | 20 | 3820 | 7940 | 2200<br>2000 | 50 |
| LMFP 60-UU<br>LMKP 60-UU | 18 | 112 | 11 | 17.5 | 11.1 | 25 | 25 | 4700 | 10000 | 3000<br>2560 | 60 |

## LMHP-UU



LMHP



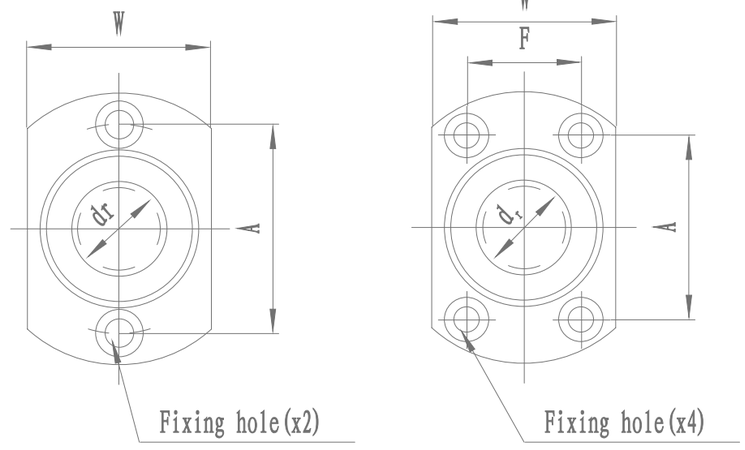

| Nomlnal shaft diame-ter (mm) | Part No. | Major dimenslons and tolerance | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LMHP…UU | dr | | D | | L | | Flange | | | |
| | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | I mm | Df mm | W mm | t mm |
| 6 | LMHP 6-UU | 6 | 0 -9 | 12 | 0 -13 | 19 | ±300 | 5 | 28 | 18 | 5 |
| 8 | LMHP 8-UU | 8 | 0 -9 | 15 | 0 -13 | 24 | ±300 | 5 | 32 | 21 | 5 |
| 10 | LMHP 10-UU | 10 | 0 -9 | 19 | 0 -16 | 29 | ±300 | 6 | 40 | 25 | 6 |
| 12 | LMHP 12-UU | 12 | 0 -9 | 21 | 0 -16 | 30 | ±300 | 6 | 42 | 27 | 6 |
| 13 | LMHP 13-UU | 13 | 0 -9 | 23 | 0 -16 | 32 | ±300 | 6 | 43 | 29 | 6 |
| 16 | LMHP 16-UU | 16 | 0 -9 | 28 | 0 -16 | 37 | ±300 | 6 | 48 | 34 | 6 |
| 20 | LMHP 20-UU | 20 | 0 -10 | 32 | 0 -19 | 42 | ±300 | 8 | 54 | 38 | 8 |
| 25 | LMHP 25-UU | 25 | 0 -10 | 40 | 0 -19 | 59 | ±300 | 8 | 62 | 46 | 8 |
| 30 | LMHP 30-UU | 30 | 0 -10 | 45 | 0 -19 | 64 | ±300 | 10 | 74 | 51 | 10 |

Note:All sizes of LMHP type are sealed on both sides.





## LMHP-UU




LMHP 13 or less

LMHP 16 or more

| Part No. | Major dimenslons and tolerance | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Weight g | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LMHP…UU | Flange | | | | | | | dynamic (C N) | static (Co N) | | |
| | A mm | F mm | X mm | Y mm | Z mm | | | | | | |
| LMHP 6-UU | 20 | - | 3.5 | 6.5 | 3.1 | 12 | 12 | 206 | 265 | 21 | 6 |
| LMHP 8-UU | 24 | - | 3.5 | 6.5 | 3.1 | 12 | 12 | 274 | 392 | 33 | 8 |
| LMHP 10-UU | 29 | - | 4.5 | 8 | 4.1 | 12 | 12 | 372 | 549 | 64 | 10 |
| LMHP 12-UU | 32 | - | 4.5 | 8 | 4.1 | 12 | 12 | 510 | 784 | 68 | 12 |
| LMHP 13-UU | 33 | - | 4.5 | 8 | 4.1 | 12 | 12 | 510 | 784 | 81 | 13 |
| LMHP 16-UU | 31 | 22 | 4.5 | 8 | 4.1 | 12 | 12 | 774 | 1180 | 112 | 16 |
| LMHP 20-UU | 36 | 24 | 5.5 | 9.5 | 5.1 | 15 | 15 | 882 | 1370 | 167 | 20 |
| LMHP 25-UU | 40 | 32 | 5.5 | 9.5 | 5.1 | 15 | 15 | 980 | 1570 | 325 | 25 |
| LMHP 30-UU | 49 | 35 | 6.6 | 11 | 6.1 | 15 | 15 | 1570 | 2740 | 388 | 30 |

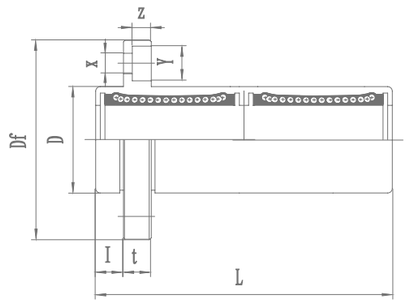
## LMFP □ L-UU/LMKP □ L-UU



LMFP-L



LMKP-L



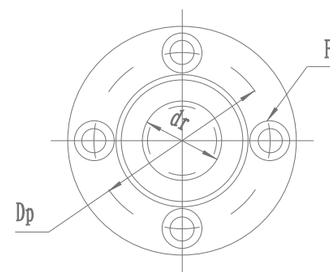

| Nomlnal shaft diame-ter (mm) | Part No. | Major dimenslons and tolerance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Steel | dr | | D | | L | | Flange | | |
| | LMF(K)P…LUU | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | I mm | Df mm | K mm |
| 6 | LMFP 6L-UU<br>LMKP 6L-UU | 6 | 0 -10 | 12 | 0 -13 | 35 | ±300 | 5 | 28 | 22 |
| 8 | LMFP 8L-UU<br>LMKP 8L-UU | 8 | 0 -10 | 15 | 0 -13 | 45 | ±300 | 5 | 32 | 25 |
| 10 | LMFP 10L-UU<br>LMKP 10L-UU | 10 | 0 -10 | 19 | 0 -16 | 55 | ±300 | 6 | 40 | 30 |
| 12 | LMFP 12L-UU<br>LMKP 12L-UU | 12 | 0 -10 | 21 | 0 -16 | 57 | ±300 | 6 | 42 | 32 |
| 13 | LMFP 13L-UU<br>LMKP 13L-UU | 13 | 0 -10 | 23 | 0 -16 | 61 | ±300 | 6 | 43 | 34 |
| 16 | LMFP 16L-UU<br>LMKP 16L-UU | 16 | 0 -10 | 28 | 0 -16 | 70 | ±300 | 6 | 48 | 37 |
| 20 | LMFP 20L-UU<br>LMKP 20L-UU | 20 | 0 -12 | 32 | 0 -19 | 80 | ±300 | 8 | 54 | 42 |
| 25 | LMFP 25L-UU<br>LMKP 25L-UU | 25 | 0 -12 | 40 | 0 -19 | 112 | ±300 | 8 | 62 | 50 |
| 30 | LMFP 30L-UU<br>LMKP 30L-UU | 30 | 0 -12 | 45 | 0 -19 | 123 | ±300 | 10 | 74 | 58 |
| 35 | LMFP 35L-UU<br>LMKP 35L-UU | 35 | 0 -15 | 52 | 0 -22 | 135 | ±300 | 10 | 82 | 64 |
| 40 | LMFP 40L-UU<br>LMKP 40L-UU | 40 | 0 -15 | 60 | 0 -22 | 151 | ±300 | 13 | 96 | 75 |
| 50 | LMFP 50L-UU<br>LMKP 50L-UU | 50 | 0 -15 | 80 | 0 -22 | 192 | ±300 | 13 | 116 | 92 |
| 60 | LMFP 60L-UU<br>LMKP 60L-UU | 60 | 0 -20 | 90 | 0 -25 | 209 | ±300 | 18 | 134 | 106 |

Note:All sizes of LMFP/LMKP type are sealed on both sides.

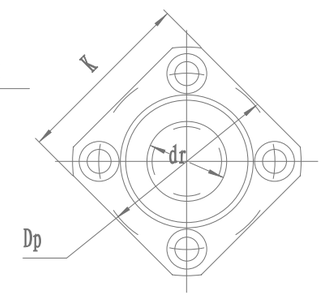


OBD

## LMFP □ L-UU/LMKP □ L-UU



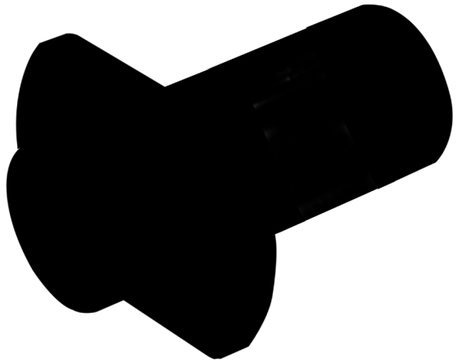

LMFP-L




LMKP-L

| Part No. | Major dimenslons and tolerance | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Weight g | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | dynamic (C N) | static (Co N) | | |
| LMF(K)P…LUU | t mm | Dp mm | X mm | Y mm | Z mm | | | | | | |
| LMFP 6L-UU<br>LMKP 6L-UU | 5 | 20 | 3.5 | 6.5 | 3.1 | 15 | 15 | 323 | 529 | 31<br>25 | 6 |
| LMFP 8L-UU<br>LMKP 8L-UU | 5 | 24 | 3.5 | 6.5 | 3.1 | 15 | 15 | 431 | 784 | 51<br>43 | 8 |
| LMFP 10L-UU<br>LMKP 10L-UU | 6 | 29 | 4.5 | 8 | 4.1 | 15 | 15 | 588 | 1100 | 98<br>78 | 10 |
| LMFP 12L-UU<br>LMKP 12L-UU | 6 | 32 | 4.5 | 8 | 4.1 | 15 | 15 | 813 | 1570 | 110<br>90 | 12 |
| LMFP 13L-UU<br>LMKP 13L-UU | 6 | 33 | 4.5 | 8 | 4.1 | 15 | 15 | 813 | 1570 | 130<br>108 | 13 |
| LMFP 16L-UU<br>LMKP 16L-UU | 6 | 38 | 4.5 | 8 | 4.1 | 15 | 15 | 1230 | 2350 | 190<br>165 | 16 |
| LMFP 20L-UU<br>LMKP 20L-UU | 8 | 43 | 5.5 | 9.5 | 5.1 | 20 | 20 | 1400 | 2740 | 260<br>225 | 20 |
| LMFP 25L-UU<br>LMKP 25L-UU | 8 | 51 | 5.5 | 9.5 | 5.1 | 20 | 20 | 1560 | 3140 | 540<br>500 | 25 |
| LMFP 30L-UU<br>LMKP 30L-UU | 10 | 60 | 6.6 | 11 | 6.1 | 20 | 20 | 2490 | 5490 | 680<br>590 | 30 |
| LMFP 35L-UU<br>LMKP 35L-UU | 10 | 67 | 6.6 | 11 | 6.1 | 25 | 25 | 2650 | 6270 | 1020<br>930 | 35 |
| LMFP 40L-UU<br>LMKP 40L-UU | 13 | 78 | 9 | 14 | 8.1 | 25 | 25 | 3430 | 8040 | 1570<br>1380 | 40 |
| LMFP 50L-UU<br>LMKP 50L-UU | 13 | 98 | 9 | 14 | 8.1 | 25 | 25 | 6080 | 15900 | 3600<br>3400 | 50 |
| LMFP 60L-UU<br>LMKP 60L-UU | 18 | 112 | 11 | 17.5 | 11.1 | 30 | 30 | 7550 | 20000 | 4500<br>4060 | 60 |

## LMHP □ L-UU



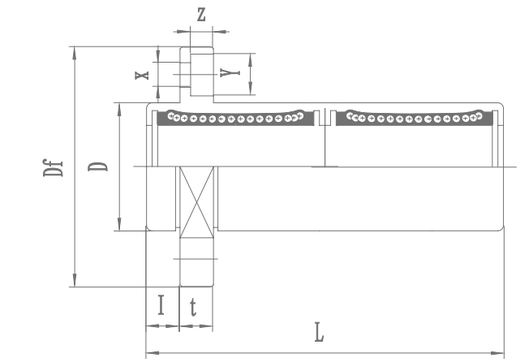
LMHP-L

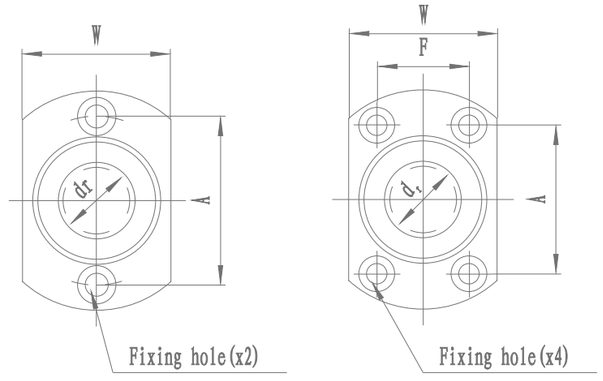
| Nominal shaft diameter (mm) | Part No. | Major dimenslons and tolerance | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | LMHP…LUU | dr | | D | | L | | Flange | | | |
| | | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | I mm | Df mm | W mm | t mm |
| 6 | LMHP 6L-UU | 6 | 0 -10 | 12 | 0 -13 | 35 | ±300 | 5 | 28 | 18 | 5 |
| 8 | LMHP 8L-UU | 8 | 0 -10 | 15 | 0 -13 | 45 | ±300 | 5 | 32 | 21 | 5 |
| 10 | LMHP 10L-UU | 10 | 0 -10 | 19 | 0 -16 | 55 | ±300 | 6 | 40 | 25 | 6 |
| 12 | LMHP 12L-UU | 12 | 0 -10 | 21 | 0 -16 | 57 | ±300 | 6 | 42 | 27 | 6 |
| 13 | LMHP 13L-UU | 13 | 0 -10 | 23 | 0 -16 | 61 | ±300 | 6 | 43 | 29 | 6 |
| 16 | LMHP 16L-UU | 16 | 0 -10 | 28 | 0 -16 | 70 | ±300 | 6 | 48 | 34 | 6 |
| 20 | LMHP 20L-UU | 20 | 0 -12 | 32 | 0 -19 | 80 | ±300 | 8 | 54 | 38 | 8 |
| 25 | LMHP 25L-UU | 25 | 0 -12 | 40 | 0 -19 | 112 | ±300 | 8 | 62 | 46 | 8 |
| 30 | LMHP 30L-UU | 30 | 0 -12 | 45 | 0 -19 | 123 | ±300 | 10 | 74 | 51 | 10 |



OBD

## LMHP □ L-UU




LMHP 13 or less　　LMHP 16 or more

| Part No. | Major dimenslons and tolerance | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Weight g | Nominal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LMHP…LUU | Flange | | | | | | | dynamic (C N) | static (Co N) | | |
| | A mm | Dp mm | X mm | Y mm | Z mm | | | | | | |
| LMHP 6L-UU | 20 | - | 3.5 | 6.5 | 3.1 | 15 | 15 | 323 | 529 | 28 | 6 |
| LMHP 8L-UU | 24 | - | 3.5 | 6.5 | 3.1 | 15 | 15 | 431 | 784 | 47 | 8 |
| LMHP 10L-UU | 29 | - | 4.5 | 8 | 4.1 | 15 | 15 | 588 | 1100 | 90 | 10 |
| LMHP 12L-UU | 32 | - | 4.5 | 8 | 4.1 | 15 | 15 | 813 | 1570 | 102 | 12 |
| LMHP 13L-UU | 33 | - | 4.5 | 8 | 4.1 | 15 | 15 | 813 | 1570 | 123 | 13 |
| LMHP 16L-UU | 31 | 22 | 4.5 | 8 | 4.1 | 15 | 15 | 1230 | 2350 | 182 | 16 |
| LMHP 20L-UU | 36 | 24 | 5.5 | 9.5 | 5.1 | 20 | 20 | 1400 | 2740 | 247 | 20 |
| LMHP 25L-UU | 40 | 32 | 5.5 | 9.5 | 5.1 | 20 | 20 | 1560 | 3140 | 525 | 25 |
| LMHP 30L-UU | 49 | 35 | 6.6 | 11 | 6.1 | 20 | 20 | 2490 | 5490 | 645 | 30 |

# LMFC □ L-UU/LMKC □ L-UU



LMFC-L



LMKC-L

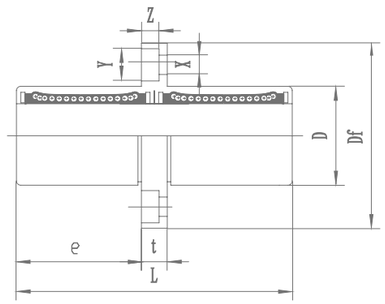
Seal type: LMFC10 UU

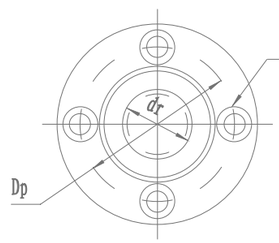
| Nomlnal shaft diame-ter (mm) | Part No. | Major dimenslons and tolerance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Steel | dr | | D | | L | | Flange | | |
| | LMF(K)C…LUU | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | e mm | Df mm | K mm |
| 6 | LMFC 6L-UU<br>LMKC 6L-UU | 6 | 0 -10 | 12 | 0 -13 | 35 | ±300 | 15 | 28 | 22 |
| 8 | LMFC 8L-UU<br>LMKC 8L-UU | 8 | 0 -10 | 15 | 0 -13 | 45 | ±300 | 20 | 32 | 25 |
| 10 | LMFC 10L-UU<br>LMKC 10L-UU | 10 | 0 -10 | 19 | 0 -16 | 55 | ±300 | 24.5 | 40 | 30 |
| 12 | LMFC 12L-UU<br>LMKC 12L-UU | 12 | 0 -10 | 21 | 0 -16 | 57 | ±300 | 25.5 | 42 | 32 |
| 13 | LMFC 13L-UU<br>LMKC 13L-UU | 13 | 0 -10 | 23 | 0 -16 | 61 | ±300 | 27.5 | 43 | 34 |
| 16 | LMFC 16L-UU<br>LMKC 16L-UU | 16 | 0 -10 | 28 | 0 -16 | 70 | ±300 | 32 | 48 | 37 |
| 20 | LMFC 20L-UU<br>LMKC 20L-UU | 20 | 0 -12 | 32 | 0 -19 | 80 | ±300 | 36 | 54 | 42 |
| 25 | LMFC 25L-UU<br>LMKC 25L-UU | 25 | 0 -12 | 40 | 0 -19 | 112 | ±300 | 52 | 62 | 50 |
| 30 | LMFC 30L-UU<br>LMKC 30L-UU | 30 | 0 -12 | 45 | 0 -19 | 123 | ±300 | 56.5 | 74 | 58 |
| 35 | LMFC 35L-UU<br>LMKC 35L-UU | 35 | 0 -15 | 52 | 0 -22 | 135 | ±300 | 62.5 | 82 | 64 |
| 40 | LMFC 40L-UU<br>LMKC 40L-UU | 40 | 0 -15 | 60 | 0 -22 | 151 | ±300 | 69 | 96 | 75 |
| 50 | LMFC 50L-UU<br>LMKC 50L-UU | 50 | 0 -15 | 80 | 0 -22 | 192 | ±300 | 89.5 | 116 | 92 |
| 60 | LMFC 60L-UU<br>LMKC 60L-UU | 60 | 0 -20 | 90 | 0 -25 | 209 | ±300 | 95.5 | 134 | 106 |



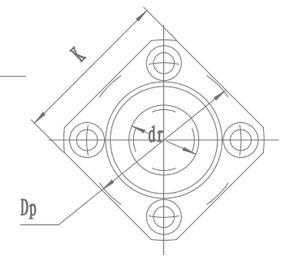


# LMFC □ L-UU/LMKC □ L-UU




LMFC-L

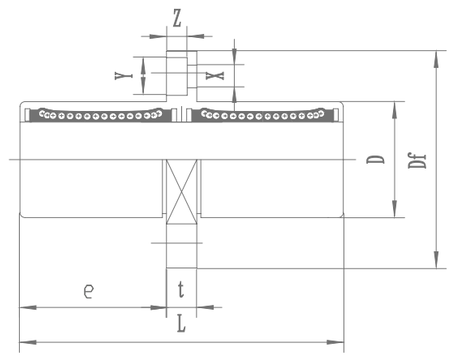



LMKC-L

| Part No. | Major dimenslons and tolerance | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Weight g | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | dynamic (C N) | static (Co N) | | |
| LMF(K)C…LUU | t mm | Dp mm | X mm | Y mm | Z mm | | | | | | |
| LMFC 6L-UU<br>LMKC 6L-UU | 5 | 20 | 3.5 | 6.5 | 3.1 | 15 | 15 | 323 | 529 | 31<br>25 | 6 |
| LMFC 8L-UU<br>LMKC 8L-UU | 5 | 24 | 3.5 | 6.5 | 3.1 | 15 | 15 | 431 | 784 | 51<br>43 | 8 |
| LMFC 10L-UU<br>LMKC 10L-UU | 6 | 29 | 4.5 | 8 | 4.1 | 15 | 15 | 588 | 1100 | 98<br>78 | 10 |
| LMFC 12L-UU<br>LMKC 12L-UU | 6 | 32 | 4.5 | 8 | 4.1 | 15 | 15 | 813 | 1570 | 110<br>90 | 12 |
| LMFC 13L-UU<br>LMKC 13L-UU | 6 | 33 | 4.5 | 8 | 4.1 | 15 | 15 | 813 | 1570 | 130<br>108 | 13 |
| LMFC 16L-UU<br>LMKC 16L-UU | 6 | 38 | 4.5 | 8 | 4.1 | 15 | 15 | 1230 | 2350 | 190<br>165 | 16 |
| LMFC 20L-UU<br>LMKC 20L-UU | 8 | 43 | 5.5 | 9.5 | 5.1 | 20 | 20 | 1400 | 2740 | 260<br>225 | 20 |
| LMFC 25L-UU<br>LMKC 25L-UU | 8 | 51 | 5.5 | 9.5 | 5.1 | 20 | 20 | 1560 | 3140 | 540<br>500 | 25 |
| LMFC 30L-UU<br>LMKC 30L-UU | 10 | 60 | 6.6 | 11 | 6.1 | 20 | 20 | 2490 | 5490 | 680<br>590 | 30 |
| LMFC 35L-UU<br>LMKC 35L-UU | 10 | 67 | 6.6 | 11 | 6.1 | 25 | 25 | 2650 | 6270 | 1020<br>930 | 35 |
| LMFC 40L-UU<br>LMKC 40L-UU | 13 | 78 | 9 | 14 | 8.1 | 25 | 25 | 3430 | 8040 | 1570<br>1380 | 40 |
| LMFC 50L-UU<br>LMKC 50L-UU | 13 | 98 | 9 | 14 | 8.1 | 25 | 25 | 6080 | 15900 | 3600<br>3400 | 50 |
| LMFC 60L-UU<br>LMKC 60L-UU | 18 | 112 | 11 | 17.5 | 11.1 | 30 | 30 | 7550 | 20000 | 4500<br>4060 | 60 |

# LMHC □ L-UU





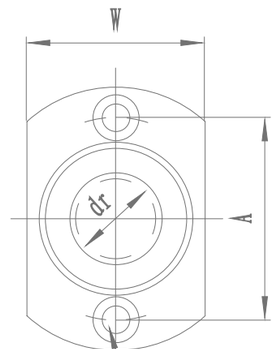

| Nomlnal shaft diameter (mm) | Part No. | Major dimenslons and tolerance | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Steel | dr | | D | | L | | Flange | | | |
| | LMHC…LUU | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | e mm | Df mm | W mm | t mm |
| 6 | LMHC 6L -UU | 6 | 0 -10 | 12 | 0 -13 | 35 | ±300 | 15 | 28 | 18 | 5 |
| 8 | LMHC 8L-UU | 8 | 0 -10 | 15 | 0 -13 | 45 | ±300 | 20 | 32 | 21 | 5 |
| 10 | LMHC 10L-UU | 10 | 0 -10 | 19 | 0 -16 | 55 | ±300 | 24.5 | 40 | 25 | 6 |
| 12 | LMHC 12L-UU | 12 | 0 -10 | 21 | 0 -16 | 57 | ±300 | 25.5 | 42 | 27 | 6 |
| 13 | LMHC 13L-UU | 13 | 0 -10 | 23 | 0 -16 | 61 | ±300 | 27.5 | 43 | 29 | 6 |
| 16 | LMHC 16L-UU | 16 | 0 -10 | 28 | 0 -16 | 70 | ±300 | 32 | 48 | 34 | 6 |
| 20 | LMHC 20L-UU | 20 | 0 -12 | 32 | 0 -19 | 80 | ±300 | 36 | 54 | 38 | 8 |
| 25 | LMHC 25L-UU | 25 | 0 -12 | 40 | 0 -19 | 112 | ±300 | 52 | 62 | 46 | 8 |
| 30 | LMHC 30L-UU | 30 | 0 -12 | 45 | 0 -19 | 123 | ±300 | 56.5 | 74 | 51 | 10 |

Note:All sizes of LMHC type are sealed on both sides.

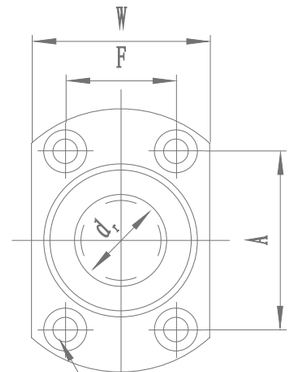


OBD

LMHC □ L-UU




LMHC 13L or less




LMHC 16L or more

| Part No. | Major dimenslons and tolerance | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Weight g | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | dynamic (C N) | static (Co N) | | |
| LMHC…LUU | A mm | Dp mm | X mm | Y mm | Z mm | | | | | | |
| LMHC 6L-UU | 20 | - | 3.5 | 6.5 | 3.1 | 15 | 15 | 323 | 529 | 28 | 6 |
| LMHC 8L-UU | 24 | - | 3.5 | 6.5 | 3.1 | 15 | 15 | 431 | 784 | 47 | 8 |
| LMHC 10L-UU | 29 | - | 4.5 | 8 | 4.1 | 15 | 15 | 588 | 1100 | 90 | 10 |
| LMHC 12L-UU | 32 | - | 4.5 | 8 | 4.1 | 15 | 15 | 813 | 1570 | 102 | 12 |
| LMHC 13L-UU | 33 | - | 4.5 | 8 | 4.1 | 15 | 15 | 813 | 1570 | 123 | 13 |
| LMHC 16L-UU | 31 | 22 | 4.5 | 8 | 4.1 | 15 | 15 | 1230 | 2350 | 182 | 16 |
| LMHC 20L-UU | 36 | 24 | 5.5 | 9.5 | 5.1 | 20 | 20 | 1400 | 2740 | 247 | 20 |
| LMHC 25L-UU | 40 | 32 | 5.5 | 9.5 | 5.1 | 20 | 20 | 1560 | 3140 | 525 | 25 |
| LMHC 30L-UU | 49 | 35 | 6.6 | 11 | 6.1 | 20 | 20 | 2490 | 5490 | 645 | 30 |

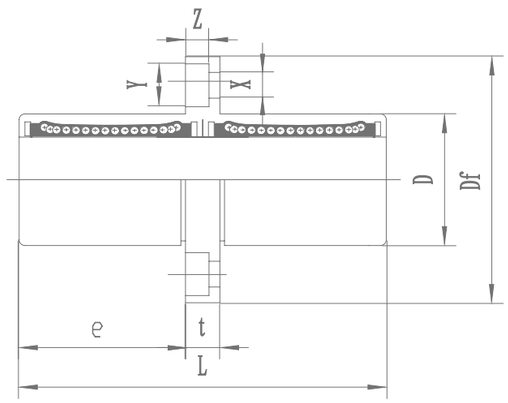
# LMEFC □ L-UU/LMEKC □ L-UU



LMEKC-L



LMEFC-L



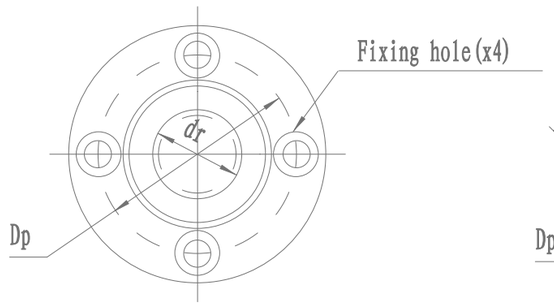

## Seal type: LMEFC10 LUU

| Nomlnal shaft diame-ter (mm) | Part No. | Major dimenslons and tolerance | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Steel | dr | | D | | L | | Flange | | |
| | LMEF(K)C…LUU | mm | Tolerance (μm) | mm | Tolerance (μm) | mm | Tolerance (μm) | e mm | Df mm | W mm |
| 8 | LMEFC 8L-UU<br>LMEKC 8L-UU | 8 | +9 -1 | 15 | 0 -13 | 46 | ±300 | 20.5 | 32 | 25 |
| 12 | LMEFC 12L-UU<br>LMEKC 12L-UU | 12 | +9 -1 | 21 | 0 -18 | 61 | ±300 | 27.5 | 42 | 32 |
| 16 | LMEFC 16L-UU<br>LMEKC 16L-UU | 16 | +11 -1 | 28 | 0 -18 | 68 | ±300 | 31 | 46 | 35 |
| 20 | LMEFC 20L-UU<br>LMEKC 20L-UU | 20 | +11 -1 | 32 | 0 -19 | 80 | ±300 | 36 | 54 | 42 |
| 25 | LMEFC 25L-UU<br>LMEKC 25L-UU | 25 | +13 -2 | 40 | 0 -19 | 112 | ±300 | 52 | 62 | 50 |
| 30 | LMEFC 30L-UU<br>LMEKC 30L-UU | 30 | +13 -2 | 45 | 0 -19 | 123 | ±300 | 56.5 | 76 | 60 |
| 40 | LMEFC 40L-UU<br>LMEKC 40L-UU | 40 | +16 -4 | 60 | 0 -22 | 151 | ±300 | 69 | 98 | 75 |
| 50 | LMEFC 50L-UU<br>LMEKC 50L-UU | 50 | +16 -4 | 80 | 0 -22 | 192 | ±300 | 89.5 | 112 | 88 |
| 60 | LMEFC 60L-UU<br>LMEKC 60L-UU | 60 | +16 -4 | 90 | 0 -25 | 209 | ±300 | 95.5 | 134 | 106 |

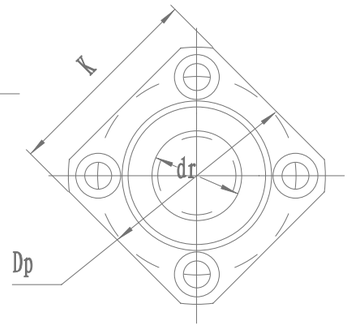




# LMEFC □ L-UU/LMEKC □ L-UU




LMEFC-L




LMEKC-L

| Part No. | Major dimenslons and tolerance | | | | | Eccentricity (μm) | Squareness (μm) | Basic load rating | | Weight g | Nomlnal shaft diameter (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Steel | Flange | | | | | | | dynamic (C N) | static (Co N) | | |
| LMEF(K)C…LUU | t mm | Dp mm | X mm | Y mm | Z mm | | | | | | |
| LMEFC 8L-UU<br>LMEKC 8L-UU | 5 | 24 | 3.5 | 6.5 | 3.1 | 15 | 15 | 421 | 804 | 59<br>51 | 6 |
| LMEFC 12L-UU<br>LMEKC 12L-UU | 6 | 32 | 4.5 | 8 | 4.1 | 15 | 15 | 813 | 1570 | 110<br>90 | 12 |
| LMEFC 16L-UU<br>LMEKC 16L-UU | 6 | 36 | 4.5 | 8 | 4.1 | 15 | 15 | 921 | 1780 | 160<br>135 | 16 |
| LMEFC 20L-UU<br>LMEKC 20L-UU | 8 | 43 | 5.5 | 9.5 | 5.1 | 15 | 15 | 1370 | 2740 | 260<br>225 | 20 |
| LMEFC 25L-UU<br>LMEKC 25L-UU | 8 | 51 | 5.5 | 9.5 | 5.1 | 15 | 15 | 1570 | 3140 | 540<br>500 | 25 |
| LMEFC 30L-UU<br>LMEKC 30L-UU | 10 | 62 | 6.6 | 11 | 6.1 | 15 | 15 | 2500 | 5490 | 815<br>720 | 30 |
| LMEFC 40L-UU<br>LMEKC 40L-UU | 13 | 80 | 9 | 14 | 8.1 | 20 | 20 | 3430 | 8040 | 1805<br>1600 | 40 |
| LMEFC 50L-UU<br>LMEKC 50L-UU | 13 | 94 | 9 | 14 | 8.1 | 20 | 20 | 6080 | 15900 | 2820<br>2620 | 50 |
| LMEFC 60L-UU<br>LMEKC 60L-UU | 18 | 112 | 11 | 17.5 | 11.1 | 20 | 20 | 7550 | 20000 | 4920<br>4480 | 60 |

# 欧必帝（天津）传动科技有限公司
# 产品目录

OBD (Tianjin) Transmission Technology Co., LTD

PRODUCT CATALOG




**欧必帝（天津）传动科技有限公司创立十余年以来一直专注于金属合金自润滑产品的开发生产制造，为客户提供各种无油自润滑产品及加工技术解决方案，目前主要产品有铜基自润滑部件，其它金属基自润滑部件，钢基铜合金覆层部件，精密铜合金部件，金属卷制类产品和覆盖工程塑料的多层复合卷制类产品。**

**欧必帝（天津）传动科技有限公司的品主要运用自润滑汽车模具导向件、自润滑塑胶模具导向件、水工机械支承回转滑动部位，工程机械，港口机械，矿山机械，冶金铸造，精密机床，汽车发动机和变速箱等领域。用户遍布国内，而且出口北美、欧洲、日本、韩国、东南亚等地区。**

**欧必帝坚持品质第一，用户至上，服务为先，相信我们会走得更好更远，成为一家值得用户信赖的专业金属合金自润滑产品制造供应商。**

OBD (Tianjin) Transmission Technology Co., LTDhas been focusing on the development, production and manufacturing of metal alloy self-lubricating products for more than ten years since its establishment, providing customers with various oil-free self-lubricating products and processing technologysolutions. At present, its main products include copperbasedself-lubricatingparts, other metal based self-lubricating parts, steel based copper alloy cladding parts, precision copper alloy parts, metal coil products and cladding parts Multi layer composite rolled products with engineering plastics cover.. Adhere to the quality first, customer first, service first, I believe we will go better and further, become a reliable professional metal alloy self-lubricating products manufacturing supplier.

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欧必帝轴承
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铜基衬套

## JDB



### JDB 镶嵌式固体润滑轴承
### Solid-lubricant inlaid bearing

该产品以高强度铜合金为基体，镶嵌特殊配方的固体润滑剂和润滑油，在摩擦过程中逐步释放润滑油和固体润滑剂。产品被广泛应用于注塑机，汽车模具、工程机械、食品机械、水轮机轴承等。

JDB Solid- lubricant inlaid bearing use high grade metal alloys as their base material, inlaid graphite and grease during the process of friction, it will release solidlubricant and lubricant oil automatically. The products are widely used in injection molding, automobile mold,engineering machine, food machinery and water turbines, etc.

※合金材料：Metal Material

| | | | | | |
|---|---|---|---|---|---|
| 国 际 牌 号 GB1776-87<br>China Brands GB1776-87 | ZCuZn25<br>Al6Fe3Mn3 | ZCuZn25<br>Al6Fe3Mn3 | ZCuAl9Fe4<br>Ni4Mn2 | GCr15 | HT250 |
| 国际ISO1338<br>International ISO1338 | GCuZn25<br>Al6Fe3Mn3 | GCuZn25<br>Al6Fe3Mn3 | GCuAl10<br>Fe3Ni5 | B1 | – |
| 德 国 DIN<br>Germany DIN | G-CuZn25<br>Al5 | G-CuZn25<br>Al5 | G-CuAl10<br>Ni | 100Cr6 | – |
| 日本JIS<br>Japan JIS | HBsC4 | HBsC4 | AlBC3 | SUJ2 | FC250 |
| 美 国 ASTM/UNS<br>America ASTM/UNS | C86300 | C86300 | C95500 | 52100 | Class40 |
| 英国标准（BS）<br>England Standard | HTB2 | HTB2 | AB2 | – | – |

※技术参数：Technical Data

| | | | | | |
|---|---|---|---|---|---|
| 最大动承载 P(N/mm²)<br>Max Move Load Capacity | 100 | 150 | 50 | 200 | 15 |
| 最大线速度 V(m/min)<br>Max Sliding Speed | 15 | 10 | 20 | 5 | 15 |
| 最高PV值（N/mm²·m/min）<br>Max PV Value Limit | 200 | 200 | 200 | 150 | 40 |
| 密度ρ(g/cm³)<br>Density | 8.0 | 8.0 | 7.6 | 7.8 | 7.3 |
| 抗拉强度（N/mm²）<br>Tensile Strength | ＞750 | ＞780 | ＞500 | ＞1500 | ＞250 |
| 延伸率(%)<br>Elongation | ＞12 | ＞4 | ＞10 | – | – |
| 硬度(HB)<br>Hardness | ＞210 | ＞250 | ＞150 | HRC＞55 | ＞160 |
| 最高使用温度℃<br>Max Working Temperature | 300 | 300 | 400 | 300 | 400 |
| 摩 擦 系 数 μ<br>Friction coefficient | 油润滑：0.03<br>Oil Lubrication:0.03 | | | 干摩擦：0.16<br>Dry Friction:0.16 | |

JDB 镶嵌式固体润滑轴承
Solid-lubricant inlaid bearing
欧必帝轴承
OBD SELF-LUBRICATINGBEARING

## JDB

※材料合金化学成份：Alloy Chemical Compositions

| | | | | | |
|---|---|---|---|---|---|
| Cu(%) | Rest | Rest | Rest | – | – |
| Sn(%) | – | – | – | – | – |
| Zn(%) | 25 | 25 | – | – | – |
| Ni(%) | – | – | 4 | – | – |
| Al(%) | 6 | 6 | 9 | – | – |
| Fe(%) | 3 | 3 | 4 | Rest | – |
| Mn(%) | 3 | 3 | 2 | 0.20～0.40 | – |
| Cr(%) | – | – | – | 1.30～1.65 | – |
| C(%) | – | – | – | 0.95～1.05 | – |
| Si(%) | – | – | – | 0.15～0.35 | – |

※固体润滑剂：Solid Lubricants

| | | | |
|---|---|---|---|
| 主 要 成 份<br>Main Compositions | 石墨<br>Graphite | 石墨+二硫化钼<br>Graphite+MoS2 | 聚四氟乙烯+石墨+石蜡<br>PTFE+Graphite+Olefin |
| 特性<br>Features | 很好的化学稳定性，使用温度＜250℃<br>Good chemical stability, temperature＜250℃ | 很好的耐磨性和化学稳定性，使用温度＜400℃<br>Good wear performance and chemical stability, temperature＜400℃ | 极低的摩擦系数和很好的水润滑性，使用温度范围-40～80℃<br>Lowest friction coefficient and good water lubrication, temperature Rang -40～80℃ |
| 适用场合<br>Application Place | 一般用(大气)<br>General(atmosphere) | 高温、高载荷<br>High temperature high load capacity | 海(水)用，高压用<br>Seawater use, high pressure use |

## 镶嵌式固体润滑轴承的特性
## The Advantages of The Solid-lubricant Inlaid Bushing

1、无给油可使用
Dry operation.

2、高载荷、低转速的情况，仍可发挥优越的性能
Can be Performed well with high load and low speed.

3、往返运动、摇摆运动、起动停止频繁等油膜形成困难的场所，仍可发挥优越的耐磨性
Rreciprocating motion, wagging motion, start and stop frequently are difficulty for keeping oil surface. It still may play advantageous of wear-resistance.

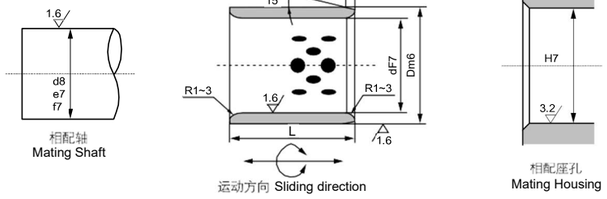
4、优越的耐药品性及耐蚀性
Excellent chemical resistance and low wear.

5、设计灵活、简单、方便，丰富的标准品，可配标准轴心使用
Flexible,simple,convenient and abundant designing of standard, can be choosed by standard axes.

# JDB



| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |




单位unit:mm

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |
| 8 | +0.028 +0.013 | 12 | +0.018 +0.007 | 081208 | 081210 | 081212 | 081215 | | | | | | | | | |
| 10 | | 14 | | 101408 | 101410 | 101412 | 101415 | | 101420 | | | | | | | |
| 12 | | 18 | | | 121810 | 121812 | 121815 | 121816 | 121820 | 121825 | 121830 | | | | | |
| 13 | | 19 | | | 131910 | | 131915 | 131916 | | | | | | | | |
| 14 | | 20 | | | 142010 | 142012 | 142015 | | 142020 | 142025 | 142030 | | | | | |
| 15 | +0.034 +0.016 | 21 | +0.021 +0.008 | | 152110 | 152112 | 152115 | 152116 | 152120 | 152125 | 152130 | | | | | |
| 16 | | 22 | | | 162210 | 162212 | 162215 | 162216 | 162220 | 162225 | 162230 | 162235 | 162240 | | | |
| 18 | | 24 | | | | 182412 | 182415 | 182416 | 182420 | 182425 | 182430 | 182435 | 182440 | | | |
| 20 | | 28 | | | 202810 | 202812 | 202815 | 202816 | 202820 | 202825 | 202830 | 202835 | 202840 | 202850 | | |
| 22 | +0.041 +0.020 | 32 | +0.025 +0.009 | | | 223212 | 223215 | | 223220 | 223225 | | | | | | |
| 25 | | 33 | | | | 253312 | 253315 | 253316 | 253320 | 253325 | 253330 | 253335 | 253340 | 253350 | 253360 | |
| 30 | | 38 | | | | 303812 | 303815 | | 303820 | 303825 | 303830 | 303835 | 303840 | 303850 | 303860 | |
| 35 | +0.050 +0.025 | 45 | | | | | | | 354520 | 354525 | 354530 | 354535 | 354540 | 354550 | 354560 | |
| 40 | | 50 | | | | | | | 405020 | 405025 | 405030 | 405035 | 405040 | 405050 | 405060 | 405070 | 405080 |
| 45 | | 55 | +0.030 +0.011 | | | | | | | | 455530 | 455535 | 455540 | 455550 | 455560 | | |
| 50 | | 60 | | | | | | | | | 506030 | 506035 | 506040 | 506050 | 506060 | 506070 | 506080 |

JDB 自润轴套
Oilless Cylindrcal Bushes
欧必帝轴承
OBD SELF-LUBRICATINGBEARING

# JDB

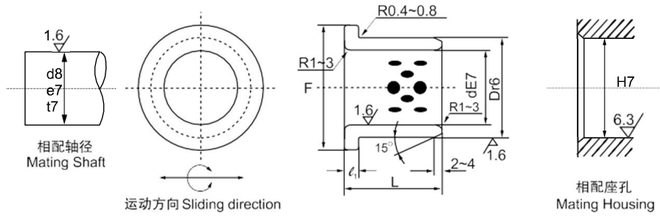
| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | |
| 50 | +0.050 +0.025 | 62 | +0.030 +0.011 | 506230 | 506235 | 506240 | 506250 | 506260 | 506270 | | | | | | | |
| 50 | | 65 | | 506530 | | 506540 | 506550 | 506560 | 506570 | 506580 | 5065100 | | | | | |
| 55 | +0.060 +0.030 | 70 | | | | 557040 | 557050 | 557060 | 557070 | | | | | | | |
| 60 | | 74 | | 607430 | 607435 | 607440 | 607450 | 607460 | 607470 | 607480 | | | | | | |
| 60 | | 75 | | 607530 | 607535 | 607540 | 607550 | 607560 | 607570 | 607580 | 6075100 | | | | | |
| 63 | | 75 | | | | | | 637560 | 637570 | 637580 | | | | | | |
| 65 | | 80 | | | | | 658050 | 658060 | 658070 | 658080 | | | | | | |
| 70 | | 85 | +0.035 +0.013 | | 708535 | 708540 | 708550 | 708560 | 708570 | 708580 | 7085100 | | | | | |
| 70 | | 90 | | | | | 709050 | 709060 | 709070 | 709080 | | | | | | |
| 75 | | 90 | | | | | | 759060 | 759070 | 759080 | 7590100 | | | | | |
| 75 | | 95 | | | | | | 759560 | 759570 | 759580 | 7595100 | | | | | |
| 80 | | 96 | | | | 809640 | 809650 | 809660 | 809670 | 809680 | 8096100 | 8096120 | | | | |
| 80 | | 100 | | | | 8010040 | 8010050 | 8010060 | 8010070 | 8010080 | 80100100 | 80100120 | | 80100140 | | |
| 90 | +0.071 +0.036 | 110 | | 9011030 | | | 9011050 | 9011060 | 9011070 | 9011080 | 90110100 | 90110120 | | | | |
| 100 | | 120 | | | | | | 10012060 | 10012070 | 10012080 | 100120100 | 100120120 | | 100120140 | | |
| 110 | | 130 | | | | | | | | 11013080 | 110130100 | 110130120 | | | | |
| 120 | | 140 | | | | | | | | 12014080 | 120140100 | 120140120 | | 120140140 | | |
| 125 | +0.083 +0.043 | 145 | +0.040 +0.015 | | | | | | | | 125145100 | 125145120 | | | | |
| 130 | | 150 | | | | | | | | | 130150100 | | 130150130 | | | |
| 140 | | 160 | | | | | | | | | 140160100 | | | 140160140 | | |
| 150 | | 170 | | | | | | | | | 150170100 | | | | 150170150 | |
| 160 | | 180 | | | | | | | | | 160180100 | | | | 160180150 | |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

## JDB



| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |




单位unit:mm

| | | | | $\ell_1$ | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | +0.040<br>+0.025 | 14 | +0.034<br>+0.023 | 22 | 2 | 1015F | 1020F | | | | | | | | |
| 12 | | 18 | | 25 | | 1215F | 1220F | | | | | | | | |
| 13 | | 19 | | 26 | | 1315F | 1320F | | | | | | | | |
| 14 | +0.050<br>+0.032 | 20 | | 27 | 3 | 1415F | 1420F | | | | | | | | |
| 15 | | 21 | +0.041<br>+0.028 | 28 | | 1515F | 1520F | 1525F | 1530F | | | | | | |
| 16 | | 22 | | 29 | | 1615F | 1620F | 1625F | 1630F | | | | | | |
| 20 | | 30 | | 40 | | 2015F | 2020F | 2025F | 2030F | | 2040F | | | | |
| 25 | +0.061<br>+0.040 | 35 | | 45 | | 2515F | 2520F | 2525F | 2530F | | 2540F | | | | |
| 30 | | 40 | | 50 | | | 3020F | 3025F | 3030F | 3035F | 3040F | 3050F | | | |
| 31.5 | | 40 | +0.050<br>+0.034 | | | | 3120F | | | 3135F | | | | | |
| 35 | | 45 | | 60 | 5 | | 3520F | | 3530F | | 3540F | 3550F | | | |
| 40 | +0.075<br>+0.050 | 50 | | 65 | | | 4020F | | 4030F | | 4040F | 4050F | | | |
| 45 | | 55 | | 70 | | | | | 4530F | | 4540F | 4550F | 4560F | | |
| 50 | | 60 | +0.060<br>+0.041 | 75 | | | | | 5030F | | 5040F | 5050F | 5060F | | |
| 55 | | 65 | | 80 | | | | | | | 5540F | | 5560F | | |
| 60 | | 75 | +0.062<br>+0.043 | 90 | 7.5 | | | | | | 6040F | 6050F | | 6080F | |
| 63 | +0.090<br>+0.060 | 75 | | 85 | | | | | | | | | | 6367F | |
| 70 | | 85 | | 105 | | | | | | | | 7050F | | 7080F | |
| 75 | | 90 | +0.073<br>+0.051 | 110 | | | | | | | | | 7560F | | |
| 80 | | 100 | | 120 | 10 | | | | | | | | 8060F | 8080F | 80100F |
| 90 | +0.107<br>+0.072 | 110 | +0.076<br>+0.054 | 130 | | | | | | | | | 9060F | 9080F | |
| 100 | | 120 | | 150 | | | | | | | | | | 10080F | 100100F |
| 120 | | 140 | +0.088<br>+0.063 | 170 | | | | | | | | | | 12080F | 120100F |

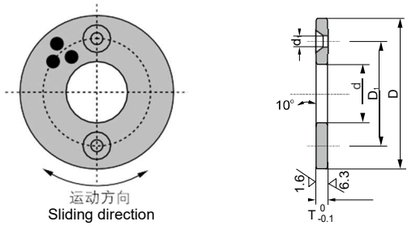
注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .



## JTW



| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |




单位unit:mm

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| JTW-10 | 10.2 | 30 | 3 | --- | --- | --- | --- |
| JTW-12 | 12.2 | 40 | | 28 | 2 | M3 | 3.5 |
| JTW-13 | 13.2 | | | | | | |
| JTW-14 | 14.2 | | | | | | |
| JTW-15 | 15.2 | 50 | | 35 | | | |
| JTW-16 | 16.2 | | | | | | |
| JTW-16N | | | | --- | --- | --- | --- |
| JTW-18 | 18.2 | | | 35 | 2 | M3 | 3.5 |
| JTW-20 | 20.2 | | 5 | | | M5 | 6 |
| JTW-20N | | | | --- | --- | --- | --- |
| JTW-25 | 25.2 | 55 | | 40 | 2 | M5 | 6 |
| JTW-25N | | | | --- | --- | --- | --- |
| JTW-30 | 30.2 | 60 | | 45 | 2 | M5 | 6 |
| JTW-35 | 35.2 | 70 | | 50 | | | |
| JTW-40 | 40.2 | 80 | 7 | 60 | | M6 | 7 |
| JTW-45 | 45.3 | 90 | | 67.5 | | | |
| JTW-50 | 50.3 | 100 | 8 | 75 | 4 | | |
| JTW-55 | 55.3 | 110 | | 85 | | | |
| JTW-60 | 60.3 | 120 | | 90 | | M8 | 9 |
| JTW-65 | 65.3 | 125 | | 95 | | | |
| JTW-70 | 70.3 | 130 | 10 | 100 | | | |
| JTW-75 | 75.3 | 140 | | 110 | | | |
| JTW-80 | 80.3 | 150 | | 120 | | | |
| JTW-90 | 90.5 | 170 | | 140 | | M10 | 11 |
| JTW-100 | 100.5 | 190 | | 160 | | | |
| JTW-120 | 120.5 | 200 | | 175 | | | |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

# JDB-4 钢基固体润滑轴承
# Steel Solid-Lubricant-Embedded Bearings

## JDB-4



### ※ 应用特点 Application

JDB-4以钢基镶嵌轴承，是加强型产品，具有较高的抗压性能，在工作时能够排出润滑颗粒，使轴与套之间产生一层隔膜，起到了比单体油润滑更抗咬合的优点，在起重机械的支撑部位特别适应。
例如：卷场机支撑，吊车支撑，但不宜在水中或酸碱场合使用。

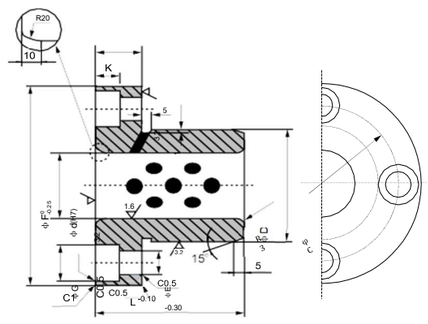
JDB-4 is made of reinforced material-steel Gcr15 with solid lubricant embedded in it. Its good performance of high crash strength can be shown in supporting position of hoisting Machine. e.g. support part of windlass and crane. It can not use in water or in acid/alkali condition.

### ※ 技术参数 Technical Data

| | | |
|---|---|---|
| 最大承载 Max. Load | 静承载Static | 200N/mm$^2$ |
| | 动承载Dynamic | 100N/mm$^2$ |
| 最大线速度 Max. Speed | 干Dry | 0.6m/s |
| | 润滑Lubrication | 1.2m/s |
| 最高PV值(润滑) Max. PV (Lubrication) | | 1.2N/mm$^2$·m/s |
| 屈服强度Yeild Strength | | 400N/mm$^2$ |
| 抗拉强度Tensile Strength | | 300N/mm$^2$ |
| 合金硬度Hardness | | HRC 50~60 |
| 延伸率Elongation % | | 15% |
| 最高使用温度Temp. Limit ℃ | | -100 ℃~+300 ℃ |
| 摩擦系数Friction Coefficient μ | | 0.05~0.20mm |
| 润滑方式Solid Lubricant | | 固体润滑剂+油槽 Solid Lubricant+Oiling Grooves |
| 公差配合Mating Tolerance | | 装配座孔H7相配轴径e7或者f7 Pilot Saddle Bore (H7) in Collaboration With Shaft Diameter (e7 or f7) |

# HGB250 自润导向套
# Oilless Guide Bushes






| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |

| 材质 | FC铸铁＋石墨 |
|---|---|
| Material | HT250#+ Graphite |

单位unit:mm

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 30 | 90×50×30×50 | 90 | 50 | 30 | 20 | 50 | 70 | 11 | 17.5 | 10.8 |
| 2 | 40 | 100×60×40×65 | 100 | 60 | 40 | 20 | 65 | 80 | 11 | 17.5 | 10.8 |
| 3 | 50 | 125×75×50×80 | 125 | 75 | 50 | 20 | 80 | 100 | 11 | 17.5 | 10.8 |
| 4 | 60 | 135×85×60×100 | 135 | 85 | 60 | 20 | 100 | 110 | 11 | 17.5 | 10.8 |
| 5 | 80 | 170×110×80×130 | 170 | 110 | 80 | 25 | 130 | 140 | 14 | 20 | 13 |
| 6 | 100 | 190×130×100×160 | 190 | 130 | 100 | 25 | 160 | 160 | 14 | 20 | 13 |

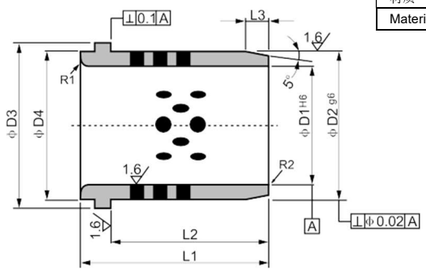
注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .



# JNA 自润导向套
# Oilless Guide Bushes

## JNA





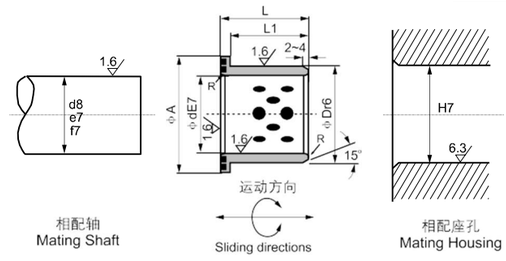

| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |

单位unit:mm

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| JNA32×50 | 32 | +0.016 0 | 40 | -0.009 | 50 | 40 | 50 | 40 | 4 | 3 |
| JNA40×63 | 40 | | 50 | -0.025 | 63 | 50 | 63 | 50 | 5 | 3 |
| JNA50×71 | 50 | | 63 | -0.010 | 71 | 63 | 71 | 56 | 6 | 5 |
| JNA63×80 | 63 | +0.019 0 | 80 | -0.029 | 90 | 80 | 80 | 63 | 8 | 6 |
| JNA80×100 | 80 | | 100 | -0.012 -0.034 | 112 | 100 | 100 | 80 | 10 | 8 |
| JNA100×125 | 100 | +0.022 0 | 125 | -0.014 | 140 | 125 | 125 | 106 | 12 | 10 |
| JNA115×140 | 115 | | 140 | -0.039 | 155 | 140 | 140 | 120 | 12 | 10 |

# JDBB 自润翻边轴套
# Oilless Flange Bushes






| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |

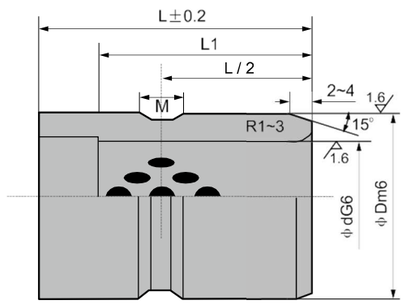
单位unit:mm

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| JDBB-12×15 | 12 | +0.050 +0.032 | 18 | +0.034 +0.023 | 25 | 11 | 15 |
| JDBB-16×20 | 16 | | 22 | +0.041 +0.028 | 30 | 15 | 20 |
| JDBB-20×25 | 20 | +0.061 +0.040 | 28 | | 36 | 20 | 25 |
| JDBB-25×30 | 25 | | 33 | +0.050 +0.034 | 43 | 25 | 30 |
| JDBB-30×35 | 30 | +0.075 +0.050 | 38 | | 48 | 30 | 35 |
| JDBB-40×45 | 40 | | 50 | | 60 | 40 | 45 |
| JDBB-50×55 | 50 | | 62 | +0.060 +0.041 | 75 | 49 | 55 |
| JDBB-60×65 | 60 | +0.090 +0.060 | 75 | +0.062 +0.043 | 90 | 58 | 65 |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

## JGB






| 材质 | 高力黄铜+石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |

单位unit:mm

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| JGB-12×9 | 12 | +0.017 +0.006 | 18 | +0.018 +0.007 | 9 | 9 | - |
| JGB-12×14 | | | | | 14 | 14 | 4 |
| JGB-12×19 | | | | | 19 | 19 | |
| JGB-12×24 | | | | | 24 | 24 | |
| JGB-13×14 | 13 | | 20 | | 14 | 14 | |
| JGB-13×19 | | | | | 19 | 19 | |
| JGB-13×24 | | | | | 24 | 24 | 6 |
| JGB-13×29 | | | | | 29 | 29 | |
| JGB-13×34 | | | | | 34 | 30 | |
| JGB-16×14 | 16 | | 25 | +0.021 +0.008 | 14 | 14 | 4 |
| JGB-16×19 | | | | | 19 | 19 | |
| JGB-16×24 | | | | | 24 | 24 | 6 |
| JGB-16×29 | | | | | 29 | 29 | |
| JGB-16×34 | | | | | 34 | 34 | |
| JGB-16×39 | | | | | 39 | 35 | |
| JGB-20×14 | 20 | +0.020 +0.007 | 30 | | 14 | 14 | 4 |
| JGB-20×19 | | | | | 19 | 19 | |
| JGB-20×24 | | | | | 24 | 24 | 6 |
| JGB-20×29 | | | | | 29 | 29 | |
| JGB-20×34 | | | | | 34 | 34 | |
| JGB-20×39 | | | | | 39 | 39 | |
| JGB-20×49 | | | | | 49 | 40 | |
| JGB-25×24 | 25 | | 35 | | 24 | 24 | 8 |
| JGB-25×29 | | | | | 29 | 29 | |
| JGB-25×34 | | | | | 34 | 34 | |
| JGB-25×39 | | | | | 39 | 39 | |
| JGB-25×49 | | | | | 49 | 49 | |
| JGB-25×59 | | | | | 59 | 50 | |
| JGB-30×29 | 30 | +0.020 +0.007 | 42 | +0.025 +0.009 | 29 | 29 | 8 |
| JGB-30×34 | | | | | 34 | 34 | |
| JGB-30×39 | | | | | 39 | 39 | |
| JGB-30×49 | | | | | 49 | 49 | |
| JGB-30×59 | | | | | 59 | 59 | |
| JGB-30×69 | | | | | 69 | 60 | |
| JGB-30×79 | | | | | 79 | | |

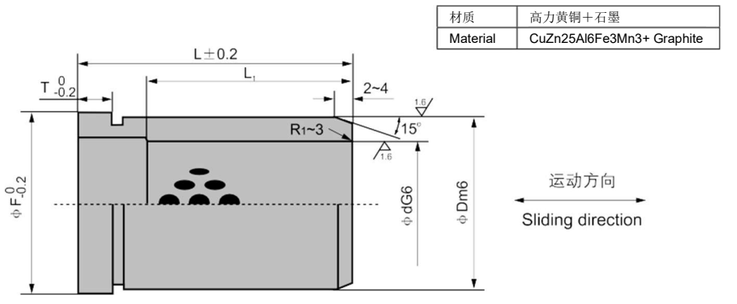
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| JGBF-35×29 | 35 | +0.025 +0.009 | 48 | +0.025 +0.009 | 29 | 29 | 8 |
| JGBF-35×39 | | | | | 34 | 34 | |
| JGBF-35×39 | | | | | 39 | 39 | |
| JGBF-35×49 | | | | | 49 | 49 | |
| JGBF-35×59 | | | | | 59 | 59 | |
| JGBF-35×69 | | | | | 69 | 69 | |
| JGBF-35×79 | | | | | 79 | 70 | |
| JGBF-40×39 | 40 | | 55 | +0.030 +0.011 | 39 | 39 | 10 |
| JGBF-40×49 | | | | | 49 | 49 | |
| JGBF-40×59 | | | | | 59 | 59 | |
| JGBF-40×69 | | | | | 69 | 69 | |
| JGBF-40×79 | | | | | 79 | 79 | |
| JGBF-40×89 | | | | | 89 | 80 | |
| JGBF-50×49 | 50 | | 70 | | 49 | 49 | 10 |
| JGBF-50×59 | | | | | 59 | 59 | |
| JGBF-50×69 | | | | | 69 | 69 | |
| JGBF-50×79 | | | | | 79 | 79 | |
| JGBF-50×89 | | | | | 89 | 89 | |
| JGBF-50×99 | | | | | 99 | 90 | |
| JGBF-60×59 | 60 | +0.029 +0.010 | 80 | +0.030 +0.011 | 59 | 59 | 10 |
| JGBF-60×69 | | | | | 69 | 69 | |
| JGBF-60×79 | | | | | 79 | 79 | |
| JGBF-60×89 | | | | | 89 | 89 | |
| JGBF-60×99 | | | | | 99 | 90 | |
| JGBF-60×109 | | | | | 109 | | |
| JGBF-70×69 | 70 | | 90 | +0.035 +0.013 | 69 | 69 | 10 |
| JGBF-70×79 | | | | | 79 | 79 | |
| JGBF-70×89 | | | | | 89 | 89 | |
| JGBF-70×99 | | | | | 99 | 99 | |
| JGBF-70×109 | | | | | 109 | 100 | |
| JGBF-70×119 | | | | | 119 | | |
| JGBF-80×69 | 80 | | 100 | | 69 | 69 | 10 |
| JGBF-80×79 | | | | | 79 | 79 | |
| JGBF-80×89 | | | | | 89 | 89 | |
| JGBF-80×99 | | | | | 99 | 99 | |
| JGBF-80×109 | | | | | 109 | 100 | |
| JGBF-80×119 | | | | | 119 | | |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .



## JGBF






| 材质 | 高力黄铜+石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |

单位unit:mm

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| JGBF-12×19 | 12 | +0.017 +0.006 | 18 | +0.018 +0.007 | 25 | 4 | 19 | 19 |
| JGBF-12×24 | | | | | | | 24 | 24 |
| JGBF-12×29 | | | | | | | 29 | 29 |
| JGBF-12×34 | | | | | | | 34 | 34 |
| JGBF-13×19 | 13 | | 20 | | | 5 | 19 | 19 |
| JGBF-13×24 | | | | | | | 24 | 24 |
| JGBF-13×29 | | | | | | | 29 | 25 |
| JGBF-13×34 | | | | | | | 34 | |
| JGBF-13×39 | | | | | | | 39 | |
| JGBF-16×19 | 16 | | 25 | +0.021 +0.008 | 30 | 6 | 19 | 19 |
| JGBF-16×24 | | | | | | | 24 | 24 |
| JGBF-16×29 | | | | | | | 29 | 29 |
| JGBF-16×34 | | | | | | | 34 | 30 |
| JGBF-16×39 | | | | | | | 39 | |
| JGBF-16×49 | | | | | | | 49 | |
| JGBF-20×19 | 20 | +0.020 +0.007 | 30 | | 35 | 8 | 19 | 19 |
| JGBF-20×24 | | | | | | | 24 | 24 |
| JGBF-20×29 | | | | | | | 29 | 29 |
| JGBF-20×34 | | | | | | | 34 | 34 |
| JGBF-20×39 | | | | | | | 39 | 39 |
| JGBF-20×49 | | | | | | | 49 | 40 |
| JGBF-20×59 | | | | | | | 59 | |
| JGBF-25×24 | 25 | | 35 | | 40 | 8 | 24 | 24 |
| JGBF-25×29 | | | | | | | 29 | 29 |
| JGBF-25×34 | | | | | | | 34 | 34 |
| JGBF-25×39 | | | | | | | 39 | 39 |
| JGBF-25×49 | | | | | | | 49 | 49 |
| JGBF-25×59 | | | | | | | 59 | 50 |
| JGBF-25×69 | | | | | | | 69 | |
| JGBF-30×29 | 30 | +0.020 +0.007 | 42 | +0.025 +0.009 | 47 | 10 | 29 | 29 |
| JGBF-30×34 | | | | | | | 34 | 34 |
| JGBF-30×39 | | | | | | | 39 | 39 |
| JGBF-30×49 | | | | | | | 49 | 49 |
| JGBF-30×59 | | | | | | | 59 | 59 |
| JGBF-30×69 | | | | | | | 69 | 60 |
| JGBF-30×79 | | | | | | | 79 | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| JGBF-35×39 | 35 | +0.025 +0.009 | 48 | +0.025 +0.009 | 54 | 10 | 39 | 39 |
| JGBF-35×49 | | | | | | | 49 | 49 |
| JGBF-35×59 | | | | | | | 59 | 59 |
| JGBF-35×69 | | | | | | | 69 | 69 |
| JGBF-35×79 | | | | | | | 79 | 70 |
| JGBF-35×89 | | | | | | | 89 | |
| JGBF-35×99 | | | | | | | 99 | |
| JGBF-40×39 | 40 | +0.025 +0.009 | 55 | +0.030 +0.011 | 61 | 10 | 39 | 39 |
| JGBF-40×49 | | | | | | | 49 | 49 |
| JGBF-40×59 | | | | | | | 59 | 59 |
| JGBF-40×69 | | | | | | | 69 | 69 |
| JGBF-40×79 | | | | | | | 79 | 79 |
| JGBF-40×89 | | | | | | | 89 | 80 |
| JGBF-40×99 | | | | | | | 99 | |
| JGBF-40×109 | | | | | | | 109 | |
| JGBF-50×49 | 50 | | 70 | | 76 | 12 | 49 | 49 |
| JGBF-50×59 | | | | | | | 59 | 59 |
| JGBF-50×69 | | | | | | | 69 | 69 |
| JGBF-50×79 | | | | | | | 79 | 79 |
| JGBF-50×89 | | | | | | | 89 | 89 |
| JGBF-50×99 | | | | | | | 99 | 90 |
| JGBF-50×109 | | | | | | | 109 | |
| JGBF-50×119 | | | | | | | 119 | |
| JGBF-60×99 | 60 | +0.029 +0.010 | 80 | +0.030 +0.011 | 86 | 15 | 99 | 99 |
| JGBF-60×109 | | | | | | | 109 | 109 |
| JGBF-60×119 | | | | | | | 119 | 110 |
| JGBF-60×129 | | | | | | | 129 | |
| JGBF-60×149 | | | | | | | 149 | |
| JGBF-70×99 | 70 | | 90 | +0.035 +0.013 | 96 | 15 | 99 | 99 |
| JGBF-70×109 | | | | | | | 109 | 109 |
| JGBF-70×119 | | | | | | | 119 | 119 |
| JGBF-70×129 | | | | | | | 129 | 120 |
| JGBF-70×149 | | | | | | | 149 | |
| JGBF-80×99 | 80 | | 100 | | 108 | 15 | 99 | 99 |
| JGBF-80×109 | | | | | | | 109 | 109 |
| JGBF-80×119 | | | | | | | 119 | 119 |
| JGBF-80×129 | | | | | | | 129 | 120 |
| JGBF-80×149 | | | | | | | 149 | |

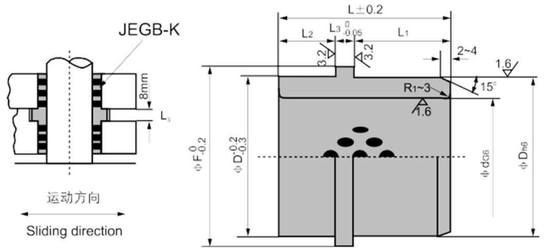
注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

# JEGB, JEGB-K 射出座导套
# Oilless Ejector Guide Bushes

## JEGB, JEGB−K



| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |




单位unit:mm

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| JEGB−10×24 | 10 | +0.014<br>+0.005 | 16 | 0<br>−0.011 | 21 | 24 | 10 | 10 | 4 |
| JEGB−10×28 | | | | | | 28 | 14 | | |
| JEGB−12×26 | 12 | +0.017<br>+0.006 | 18 | | | 26 | 12 | | |
| JEGB−12×28 | | | | | | 28 | 14 | | |
| JEGB−13×26 | 13 | | 22 | | 25 | 26 | 12 | | |
| JEGB−13×28 | | | | | | 28 | 14 | | |
| JEGB−13×33 | | | | | | 33 | 18 | | |
| JEGB−13×38 | | | | | | 38 | 24 | | |
| JEGB−16×26 | 16 | | 25 | 0<br>−0.013 | 30 | 26 | 12 | | |
| JEGB−16×28 | | | | | | 28 | 14 | | |
| JEGB−16×33 | | | | | | 33 | 19 | | |
| JEGB−16×38 | | | | | | 38 | 24 | | |
| JEGB−20×26 | 20 | +0.020<br>+0.007 | 30 | | 35 | 26 | 12 | | |
| JEGB−20×28 | | | | | | 28 | 14 | | |
| JEGB−20×33 | | | | | | 33 | 19 | | |
| JEGB−20×38 | | | | | | 38 | 24 | | |
| JEGB−25×26 | 25 | | 35 | | 40 | 26 | 12 | | |
| JEGB−25×28 | | | | | | 28 | 14 | | |
| JEGB−25×33 | | | | | | 33 | 19 | | |
| JEGB−25×38 | | | | | | 38 | 24 | | |
| JEGB−30×33 | 30 | | 40 | 0<br>−0.016 | 45 | 33 | 14 | 15 | |
| JEGB−30×38 | | | | | | 38 | 19 | | |
| JEGB−30×43 | | | | | | 43 | 24 | | |
| JEGB−32×38 | 32 | | 42 | | 47 | 38 | 19 | | |
| JEGB−32×43 | | | | | | 43 | 24 | | |
| JEGB−32×48 | | | | | | 48 | 29 | | |
| JEGB−35×38 | 35 | +0.025<br>+0.009 | 46 | | 50 | 38 | 19 | | |
| JEGB−35×43 | | | | | | 43 | 24 | | |
| JEGB−35×48 | | | | | | 48 | 29 | | |
| JEGB−40×48 | 40 | | 52 | 0<br>−0.019 | 57 | 48 | 24 | 20 | |
| JEGB−40×53 | | | | | | 53 | 29 | | |
| JEGB−50×48 | 50 | | 62 | | 67 | 48 | 24 | | |
| JEGB−50×53 | | | | | | 53 | 29 | | |
| JEGB−K−30×37 | 30 | +0.020<br>+0.007 | 42 | 0<br>−0.016 | 47 | 37 | 14 | 15 | 8 |
| JEGB−K−30×42 | | | | | | 42 | 19 | | |
| JEGB−K−30×47 | | | | | | 47 | 24 | | |
| JEGB−K−30×52 | | | | | | 52 | 29 | | |
| JEGB−K−40×53 | 40 | +0.025<br>+0.009 | 55 | 0<br>−0.019 | 60 | 53 | 20 | 25 | |
| JEGB−K−40×57 | | | | | | 57 | 24 | | |
| JEGB−K−40×60 | | | 50 | 0<br>−0.016 | 55 | 60 | 32 | 20 | |
| JEGB−K−40×67 | | | 55 | 0<br>−0.019 | 60 | 67 | 29 | 30 | |
| JEGB−K−40×70 | | | 50 | | 55 | 70 | 42 | 20 | |
| JEGB−K−50×67 | 50 | | 62 | | 67 | 67 | 29 | 30 | |
| JEGB−K−50×87 | | | | | | 87 | 39 | 40 | |
| JEGB−K−60×67 | 60 | +0.029<br>+0.010 | 74 | | 82 | 67 | 29 | 30 | |
| JEGB−K−60×87 | | | | | | 87 | 39 | 40 | |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

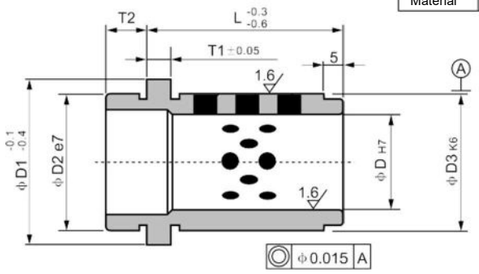


# JSLB 自润翻边轴套
# Oilless Flange Bushes

## JSLB



| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |




单位unit:mm

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 3 | 16 | 14 | 14 | 9 | 12 | JSLB 09 012 | 10 | JSLB 10 012 |
| | | | | | | 17 | JSLB 09 017 | | JSLB 10 017 |
| | | | | | | 22 | JSLB 09 022 | | JSLB 10 022 |
| | | | | | | 27 | JSLB 09 027 | | JSLB 10 027 |
| | | | | | | 36 | JSLB 09 036 | | JSLB 10 036 |
| 6 | 6 | 25 | 20 | 20 | 14 | 17 | JSLB 14 017 | 15 | JSLB 15 017 |
| | | | | | | 22 | JSLB 14 022 | | JSLB 15 022 |
| | | | | | | 27 | JSLB 14 027 | | JSLB 15 027 |
| | | | | | | 36 | JSLB 14 036 | | JSLB 15 036 |
| | | | | | | 46 | JSLB 14 046 | | JSLB 15 046 |
| | | | | | | 56 | JSLB 14 056 | | JSLB 15 056 |
| 6 | 8 | 31 | 26 | 26 | 18 | 17 | JSLB 18 017 | 20 | JSLB 20 017 |
| | | | | | | 22 | JSLB 18 022 | | JSLB 20 022 |
| | | | | | | 27 | JSLB 18 027 | | JSLB 20 027 |
| | | | | | | 36 | JSLB 18 036 | | JSLB 20 036 |
| | | | | | | 46 | JSLB 18 046 | | JSLB 20 046 |
| | | | | | | 56 | JSLB 18 056 | | JSLB 20 056 |
| | | | | | | 66 | JSLB 18 066 | | JSLB 20 066 |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

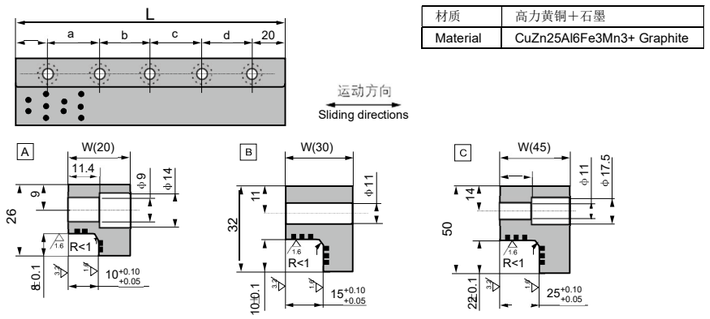
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 6 | 8 | 36 | 30 | 30 | 22 | 17 | JSLB 22 017 | 24 | JSLB 24 017 |
| | | | | | | 22 | JSLB 22 022 | | JSLB 24 022 |
| | | | | | | 27 | JSLB 22 027 | | JSLB 24 027 |
| | | | | | | 36 | JSLB 22 036 | | JSLB 24 036 |
| | | | | | | 46 | JSLB 22 046 | | JSLB 24 046 |
| | | | | | | 56 | JSLB 22 056 | | JSLB 24 056 |
| | | | | | | 66 | JSLB 22 066 | | JSLB 24 066 |
| | | | | | | 76 | JSLB 22 076 | | JSLB 24 076 |
| | | | | | | 86 | JSLB 22 086 | | JSLB 24 086 |
| 6 | 8 | 47 | 42 | 42 | 30 | 27 | JSLB 30 027 | 32 | JSLB 32 027 |
| | | | | | | 36 | JSLB 30 036 | | JSLB 32 036 |
| | | | | | | 46 | JSLB 30 046 | | JSLB 32 046 |
| | | | | | | 56 | JSLB 30 056 | | JSLB 32 056 |
| | | | | | | 66 | JSLB 30 056 | | JSLB 32 066 |
| | | | | | | 76 | JSLB 30 076 | | JSLB 32 076 |
| | | | | | | 86 | JSLB 30 086 | | JSLB 32 086 |
| | | | | | | 96 | JSLB 30 096 | | JSLB 32 096 |
| | | | | | | 116 | JSLB 30 116 | | JSLB 32 116 |
| 10 | 12 | 60 | 54 | 54 | 40 | 46 | JSLB 40 046 | 42 | JSLB 42 046 |
| | | | | | | 56 | JSLB 40 056 | | JSLB 42 056 |
| | | | | | | 66 | JSLB 40 066 | | JSLB 42 066 |
| | | | | | | 76 | JSLB 40 076 | | JSLB 42 076 |
| | | | | | | 86 | JSLB 40 086 | | JSLB 42 086 |
| | | | | | | 96 | JSLB 40 096 | | JSLB 42 096 |
| | | | | | | 116 | JSLB 40 116 | | JSLB 42 116 |
| | | | | | | 136 | JSLB 40 136 | | JSLB 42 136 |
| | | | | | | 156 | JSLB 40 156 | | JSLB 42 156 |

# JSL L 型自润滑板
# Oilless L Guide Plate

欧必帝轴承
OBD SELF-LUBRICATINGBEARING

## JSL L






| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |

单位unit:mm

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| JSL-20×100 | 20 | 100 | 60 | —— | —— | —— | M8 | 2 | A |
| JSL-20×150 | | 150 | 55 | 55 | —— | —— | | 3 | |
| JSL-20×200 | | 200 | 55 | 50 | 55 | —— | | 4 | |
| JSL-30×100 | 30 | 100 | 60 | —— | —— | —— | M10 | 2 | B |
| JSL-30×150 | | 150 | 55 | 55 | —— | —— | | 3 | |
| JSL-30×200 | | 200 | 55 | 50 | 55 | —— | | 4 | |
| JSL-30×250 | | 250 | 70 | 70 | 70 | —— | | 4 | |
| JSL-45×200 | 45 | 200 | 55 | 50 | 55 | —— | | 4 | C |
| JSL-45×250 | | 250 | 70 | 70 | 70 | —— | | 4 | |
| JSL-45×300 | | 300 | 65 | 65 | 65 | 65 | | 5 | |
| JSL-45×350 | | 350 | 80 | 75 | 75 | 80 | | 5 | |

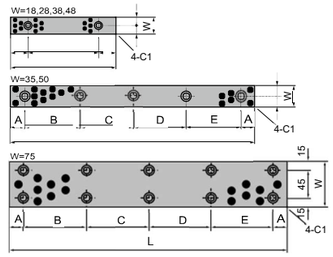
注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

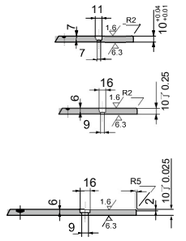
# JSP 滑板尺寸
# Oilless Sliding Plate

欧必帝轴承
OBD SELF-LUBRICATINGBEARING

## JSP






| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |

单位unit:mm

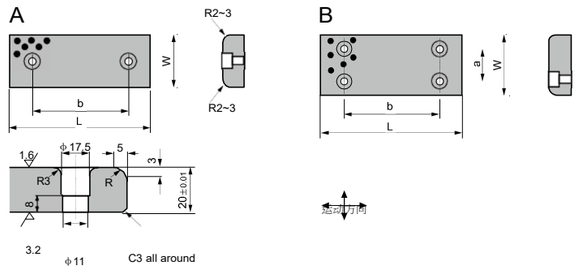
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| JSP-1875 | 18 | 75 | 15 | 45 | | | | M6 | 2 |
| JSP-18100 | | 100 | 25 | 60 | | | | | |
| JSP-18125 | | 125 | | 75 | | | | | |
| JSP-18150 | | 150 | | 100 | | | | | |
| JSP-2875 | 28 | 75 | 15 | 45 | | | | | |
| JSP-28100 | | 100 | 25 | 50 | | | | | |
| JSP-28125 | | 125 | | 75 | | | | | |
| JSP-28150 | | 150 | | 100 | | | | | |
| JSP-35100 | 35 | 100 | 20 | 60 | | | | M8 | 3 |
| JSP-35150 | | 150 | | 55 | 55 | | | | 4 |
| JSP-35200 | | 200 | | 55 | 50 | 55 | | | 4 |
| JSP-35250 | | 250 | | 70 | 70 | 70 | | | 5 |
| JSP-35300 | | 300 | | 65 | 65 | 65 | 65 | | 5 |
| JSP-35350 | | 350 | | 80 | 75 | 75 | 80 | | |
| JSP-3875 | 38 | 75 | 15 | 45 | | | | M6 | 2 |
| JSP-38100 | | 100 | 25 | 50 | | | | | |
| JSP-38125 | | 125 | | 75 | | | | | |
| JSP-38150 | | 150 | | 100 | | | | | |
| JSP-4875 | 48 | 75 | 15 | 45 | | | | | |
| JSP-48100 | | 100 | 25 | 50 | | | | | |
| JSP-48125 | | 125 | | 75 | | | | | |
| JSP-48150 | | 150 | | 100 | | | | | |
| JSP-50100 | 50 | 100 | 20 | 60 | | | | M8 | 3 |
| JSP-50150 | | 150 | | 55 | 55 | | | | 4 |
| JSP-50200 | | 200 | | 55 | 50 | 55 | | | 4 |
| JSP-50250 | | 250 | | 70 | 70 | 70 | | | 5 |
| JSP-50300 | | 300 | | 65 | 65 | 65 | 65 | | 5 |
| JSP-50400 | | 400 | | 90 | 90 | 90 | 90 | | 5 |
| JSP-75150 | 75 | 150 | | 110 | | | | | 4 |
| JSP-75200 | | 200 | | 80 | 80 | | | | 6 |
| JSP-75250 | | 250 | | 105 | 105 | | | | 6 |
| JSP-75300 | | 300 | | 85 | 90 | 85 | | | 8 |
| JSP-75400 | | 400 | | 120 | 120 | 120 | | | 8 |
| JSP-75500 | | 500 | | 115 | 115 | 115 | 115 | | 10 |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

# JESW



| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |




单位unit:mm

| | | | | | |
|---|---|---|---|---|---|
| JESW 28×75 | 28 | 75 | | 45 | A |
| JESW 28×100 | | 100 | | 50 | |
| JESW 28×150 | | 150 | | 100 | |
| JESW 38×75 | 38 | 75 | | 45 | |
| JESW 38×100 | | 100 | | 50 | |
| JESW 38×150 | | 150 | | 100 | |
| JESW 48×75 | 48 | 75 | | 45 | |
| JESW 48×100 | | 100 | | 50 | |
| JESW 48×125 | | 125 | | 75 | |
| JESW 48×150 | | 150 | | 100 | |
| JESW 48×200 | | 200 | | 150 | |
| JESW 58×75 | 58 | 75 | | 45 | |
| JESW 58×100 | | 100 | | 50 | |
| JESW 58×150 | | 150 | | 100 | |
| JESW 75×75 | 75 | 75 | | 25 | |
| JESW 75×100 | | 100 | | 50 | |
| JESW 75×125 | | 125 | | 75 | |
| JESW 75×150 | | 150 | | 100 | |
| JESW 75×200 | | 200 | | 150 | |
| JESW 100×100 | 100 | 100 | 50 | 50 | B |
| JESW 100×125 | | 125 | | 75 | |
| JESW 100×125 | | 150 | | 100 | |
| JESW 100×200 | | 200 | | 150 | |
| JESW 100×250 | | 250 | | 200 | |
| JESW 125×125 | 125 | 125 | 50 | 75 | |
| JESW 125×150 | | 150 | | 100 | |
| JESW 125×200 | | 200 | | 150 | |
| JESW 125×250 | | 250 | | 200 | |
| JESW 150×150 | 150 | 150 | 100 | 100 | |
| JESW 150×200 | | 200 | | 150 | |
| JESW 150×250 | | 250 | | 200 | |
| JESW 150×300 | | 300 | | 250 | |
| JESW 200×200 | 200 | 200 | 150 | 150 | |
| JESW 200×250 | | 250 | | 200 | |
| JESW 200×300 | | 300 | | 250 | |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

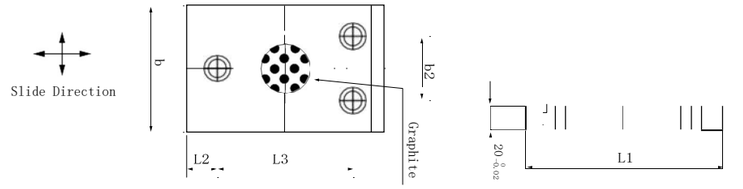




# 39D 863



| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |




单位unit:mm

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 39D863-12 | 50 | 80 | - | 25 | 30 | - | M8×25 | 2 |
| 39D863-13 | | 100 | - | | 50 | - | M12×25 | |
| 39D863-14 | | 125 | - | | 75 | - | | |
| 39D863-15 | | 160 | - | | 110 | - | | |
| 39D863-16 | | 200 | - | | 150 | - | | |
| 39D863-111 | | 250 | - | | 60 | 80 | | 4 |
| 39D863-112 | | 300 | - | | 80 | 90 | | |
| 39D863-113 | | 350 | - | | 100 | 100 | | |
| 39D863-114 | | 400 | - | | 120 | 110 | | |
| 39D863-115 | | 450 | - | | 140 | 120 | | |
| 39D863-116 | | 500 | - | | 150 | 150 | | |
| 39D863-21 | 80 | 50 | 30 | 25 | | - | M8×25 | 2 |
| 39D863-22 | | 80 | - | | 30 | - | M12×25 | |
| 39D863-23 | | 100 | - | | 50 | - | | |
| 39D863-24 | | 125 | - | | 75 | - | | |
| 39D863-25 | | 160 | - | | 110 | - | | |
| 39D863-26 | | 200 | - | | 150 | - | | |
| 39D863-121 | | 250 | - | | 60 | 80 | | 4 |
| 39D863-122 | | 300 | - | | 80 | 90 | | |
| 39D863-123 | | 350 | - | | 100 | 100 | | |
| 39D863-124 | | 400 | - | | 120 | 110 | | |
| 39D863-125 | | 450 | - | | 140 | 120 | | |
| 39D863-126 | | 500 | - | | 150 | 150 | | |
| 39D863-31 | 100 | 50 | 50 | 25 | | - | M12×25 | 2 |
| 39D863-32 | | 80 | | 40 | | - | | |
| 39D863-33 | | 100 | - | 25 | 50 | - | | |
| 39D863-34 | | 125 | - | | 75 | - | | |
| 39D863-35 | | 160 | - | | 110 | - | | |
| 39D863-36 | | 200 | - | | 150 | - | | |
| 39D863-131 | | 450 | - | | 140 | 120 | | 4 |
| 39D863-132 | | 500 | - | | 150 | 150 | | |
| 39D863-41 | 125 | 50 | 75 | 25 | | - | M12×25 | 2 |
| 39D863-42 | | 80 | | 40 | | - | | |
| 39D863-43 | | 100 | | 25 | 50 | - | | 3 |
| 39D863-44 | | 125 | | | 75 | - | | |
| 39D863-45 | | 160 | | | 110 | - | | |
| 39D863-46 | | 200 | | | 150 | - | | |
| 39D863-141 | | 450 | - | | 140 | 120 | | 4 |
| 39D863-142 | | 500 | - | | 150 | 150 | | |
| 39D863-51 | 160 | 50 | 110 | 25 | | - | M12×25 | 2 |
| 39D863-52 | | 80 | | 40 | | - | | |
| 39D863-53 | | 100 | | 25 | 50 | - | | 3 |
| 39D863-54 | | 125 | | | 75 | - | | |
| 39D863-55 | | 160 | | | 110 | - | | |
| 39D863-56 | | 200 | | | 150 | - | | |

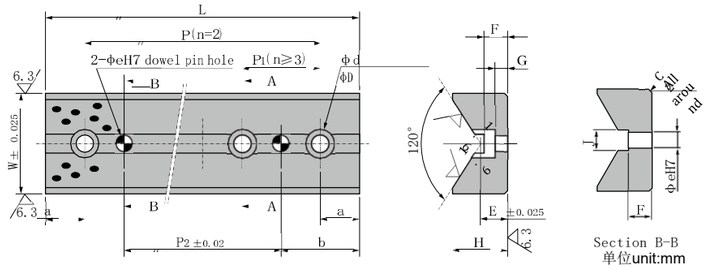
注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

# DCBS/DCBSL





| 材质 | 高力黄铜＋石墨 |
|---|---|
| Material | CuZn25Al6Fe3Mn3+ Graphite |




*n is the number of bolt holes.

◄ ►

Slide Direction

·bolt hole

| | | |
|---|---|---|
| 35 | 9 | 14 |
| 50·65 | 11 | 17.5 |

单位unit:mm

| | | | | ℓ | $\ell_1$ | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DCBS | 65 | 100 | 35 | 20 | 40 | 60 | - | 2 | 20 | 18 | 15 | 8 |
| | | 150 | | 25 | 50 | - | 50 | 3 | 50 | | | |
| | | 200 | | | | | | 4 | 100 | | | |
| | | 250 | | | | | | 5 | 150 | | | |
| | | 300 | | | | | | 6 | 200 | | | |
| DCBSL | 65 | 100 | 37 | 20 | 40 | 60 | - | 2 | 20 | 20 | 20 | 10 |
| | | 125 | | 25 | 50 | 75 | | | 25 | | | |
| | | 150 | | | | 100 | | | 50 | | | |
| | | 200 | | | | - | 75 | 3 | 100 | | | |
| | | 250 | | | | | 100 | | 150 | | | |
| | | 300 | | | | | 125 | | 200 | | | |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

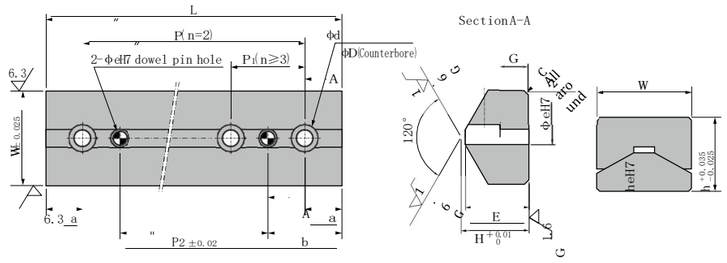


# DCBSP/DCBSPL





| 材质 | S45C |
|---|---|
| Material | 钢基＋HRC≥55 |




*n is the number of bolt holes.

*The dowel hole effective depth is 15 mm.

·bolt hole

| | | |
|---|---|---|
| 35 | 9 | 14 |
| 50·65 | 11 | 17.5 |

·UTotal height of Combination DCBS and DCBSP

| | |
|---|---|
| 35 | 35 |
| 50 | 50 |
| 65 | 65 |

单位unit:mm

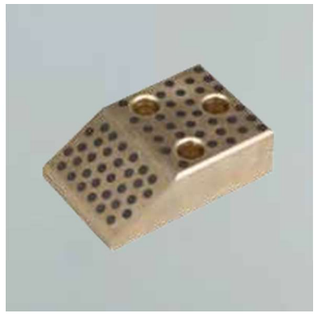
| | | | | ℓ | $\ell_1$ | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DCBSP | 65 | 100 | 47 | 20 | 40 | 60 | - | 2 | 20 | 44 | 20 |
| | | 150 | | 25 | 50 | - | 50 | 3 | 50 | | |
| | | 200 | | | | | | 4 | 100 | | |
| | | 250 | | | | | | 5 | 150 | | |
| | | 300 | | | | | | 6 | 200 | | |
| DCBSPL | 65 | 100 | 30 | 20 | 40 | 60 | - | 2 | 20 | 26 | 10 |
| | | 125 | | 25 | 50 | 75 | | | 25 | | |
| | | 150 | | | | 100 | | | 50 | | |
| | | 200 | | | | - | 75 | 3 | 100 | | |
| | | 250 | | | | | 100 | | 150 | | |
| | | 300 | | | | | 125 | | 200 | | |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

# DSPW/DSPS 凸轮行程滑板
# Cam Stroke Plate

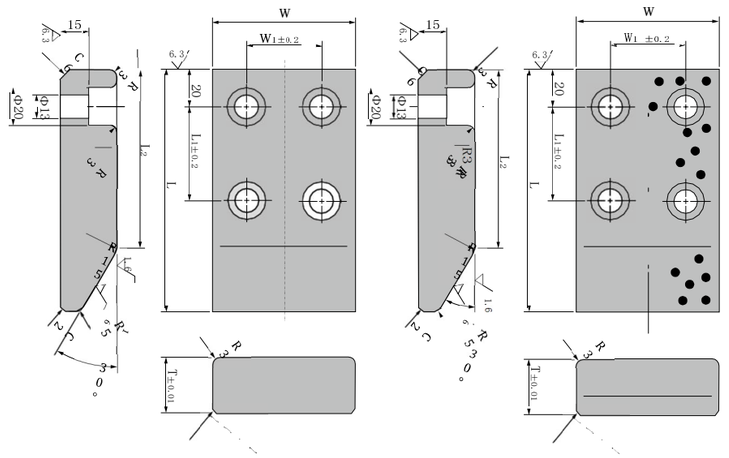
欧必帝轴承
OBD SELF-LUBRICATINGBEARING

## DSPW/DSPS





| | |
|---|---|
| DSPW | CuZn25Al6Fe3Mn3+ Graphite<br>高力黄铜＋石墨 |
| DSPS | S45C<br>钢基＋HRC≥55 |




单位unit:mm

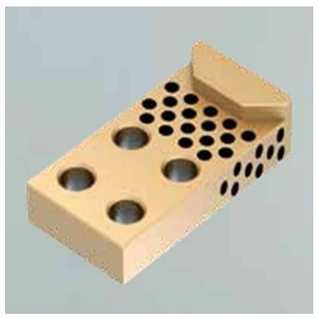
| | | | | | | |
|---|---|---|---|---|---|---|
| DSPW/DSPS-75×130 | 75 | 130 | 30 | 40 | 50 | 95 |
| DSPW/DSPS-75×150 | 100 | 150 | 45 | | 45 | 90 |
| DSPW/DSPS-100×130 | | 130 | 30 | 60 | 50 | 95 |
| DSPW/DSPS-100×150 | | 150 | 45 | | 45 | 90 |
| DSPW/DSPS-100×170 | | 170 | 60 | | | |
| DSPW/DSPS-100×200 | | 200 | | | 75 | 120 |
| DSPW/DSPS-125×130 | 125 | 130 | 30 | 85 | 50 | 95 |
| DSPW/DSPS-125×150 | | 150 | 45 | | 45 | 90 |
| DSPW/DSPS-125×170 | | 170 | 60 | | | |
| DSPW/DSPS-125×200 | | 200 | | | 75 | 120 |
| DSPW/DSPS-150×130 | 150 | 130 | 30 | 110 | 50 | 95 |
| DSPW/DSPS-150×150 | | 150 | 45 | | 45 | 90 |
| DSPW/DSPS-150×170 | | 170 | 60 | | | |
| DSPW/DSPS-150×200 | | 200 | | | 75 | 120 |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

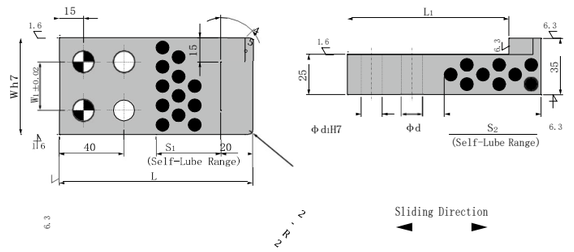
# DCPRB/DCPRBS DPGPC 自润导板
# Cam Pad Guide Plate

欧必帝轴承
OBD SELF-LUBRICATINGBEARING

## DCPRB/DCPRBS DPGPC



| | |
|---|---|
| 材质 | 高力黄铜＋石墨 |
| Material | CuZn25Al6Fe3Mn3+ Graphite |




单位unit:mm

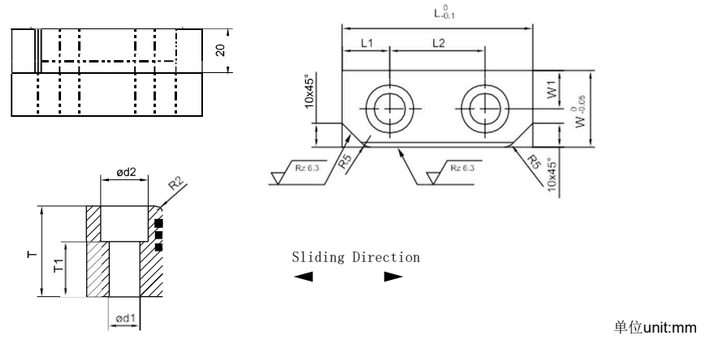
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DPGPC-60×120 | 60 | 0<br>-0.030 | 120 | 100 | 40 | 60 | 30 | 13 | 13 |
| DPGPC-60×140 | | | 140 | 120 | 60 | 80 | | | |
| DPGPC-60×160 | | | 160 | 140 | 80 | 100 | | | |
| DPGPC-100×120 | 100 | 0<br>-0.035 | 120 | 100 | 40 | 60 | 70 | 18 | 16 |
| DPGPC-100×140 | | | 140 | 120 | 60 | 80 | | | |
| DPGPC-100×160 | | | 160 | 140 | 80 | 100 | | | |
| DPGPC-150×120 | 150 | 0<br>-0.040 | 120 | 100 | 40 | 60 | 120 | | |
| DPGPC-150×140 | | | 140 | 120 | 60 | 80 | | | |
| DPGPC-150×160 | | | 160 | 140 | 80 | 100 | | | |

## DCPRB/DCPRBS





| | |
|---|---|
| DCRPB | CuZn25Al6Fe3Mn3+ Graphite<br>高力黄铜＋石墨 |
| DCRPBS | S45C<br>钢基＋HRC≥55 |




单位unit:mm

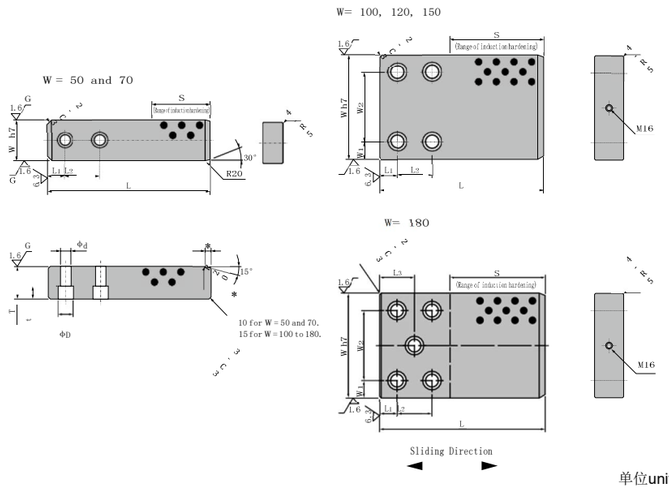
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| DCRPB/DCPRBS | 25×60×30 | 15 | 30 | 11 | 18 | 11 | 17.5 |
| DCRPB/DCPRBS | 32×60×38 | 15 | 30 | 16 | 23 | 13 | 20 |
| DCRPB/DCPRBS | 32×80×38 | 20 | 40 | 16 | 23 | 13 | 20 |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .

# DGBZ



| 材质 | 钢基＋HRC≥40 |
|---|---|
| Material | S45C |




单位unit:mm

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DGBZ-50×160 | 50 | 160 | 50 | 0 -0.025 | 20 | 50 | - | - | 26 | 18 | 18 | 10 | 60 | 30 |
| DGBZ-50×200 | | 200 | | | | | | | | | | | 120 | |
| DGBZ-50×260 | | 260 | | | | 80 | | | | | | | | |
| DGBZ-70×230 | 70 | 230 | 70 | 0 -0.030 | 25 | 60 | | | | | | | 100 | 35 |
| DGBZ-70×260 | | 260 | | | | | | | | | | | 160 | |
| DGBZ-70×300 | | 300 | | | | 75 | | | | | | | | |
| DGBZ-70×350 | | 350 | | | | 150 | | | | | | | 150 | |
| DGBZ-100×230 | 100 | 230 | 100 | 0 -0.035 | | 60 | - | 20 | 60 | 32 | 22 | 22 | 100 | 45 |
| DGBZ-100×280 | | 280 | | | | | | | | | | | 160 | |
| DGBZ-100×330 | | 330 | | | | 100 | | | | | | | | |
| DGBZ-100×390 | | 390 | | | | 120 | | | | | | | 200 | |
| DGBZ-120×230 | 120 | 230 | 120 | | | 60 | | 30 | | | | | 100 | |
| DGBZ-120×280 | | 280 | | | | | | | | | | | 160 | |
| DGBZ- 120×330 | | 330 | | | | 100 | | | | | | | | |
| DGBZ-120×390 | | 390 | | | | 120 | | | | | | | 200 | |
| DGBZ-150×280 | 150 | 280 | 150 | | 30 | 60 | | | 90 | | | | 160 | 50 |
| DGBZ-150×330 | | 330 | | | | 80 | | | | | | | 190 | |
| DGBZ-150×390 | | 390 | | | | 140 | | | | | | | | |
| DGBZ-150×430 | | 430 | | | | 180 | | | | | | | | |
| DGBZ-180×280 | 180 | 280 | 180 | 0 -0.040 | | 60 | 60 | | 120 | | | | 160 | 55 |
| DGBZ-180×330 | | 330 | | | | 80 | 70 | | | | | | 190 | |
| DGBZ-180×390 | | 390 | | | | 140 | 100 | | | | | | | |
| DGBZ-180×430 | | 430 | | | | 180 | 120 | | | | | | | |
| DGBZ-180×480 | | 480 | | | | 200 | 130 | | | | | | 200 | |
| DGBZ-180×550 | | 550 | | | | 225 | 142.5 | | | | | | 250 | |

注：除以上规格尺寸外，可按客户图纸制造。
Note: In addition to the above specifications of size, manufactured according to customer drawings .



# Self-lubricating Bearing

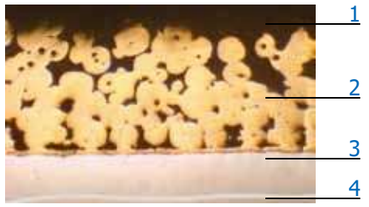


## SF-1 碳钢基自润滑轴承
## Carbon Steel self-lubricating bearing

该产品以优质低碳钢为基体，中间烧结球形青铜层，表面轧制聚四氟乙烯和铅的混合物。它具有较好的自润滑、耐磨损、摩擦系数低、走合性能好、低噪音等性能，产品广泛应用于各种机械的滑动部位，如纺织机、印刷机、液压搬运车、烟草机、健身器、农业机械等。

SF-1 Carbon Steel self-lubricating bearings used high quality low-carbon steel plate as base, sintered porous bronze as its interlayer and the Compound of PTFE and Lead as its surface. It offers the property of good self-lubrication, low wear, low friction good sliding characteristics, low noise. It has been widely applied to various mechanical sliding positions, such as textile machinery, printing machinery, hydraulic pressure transit vehicle, tobacco machinery, gymnastic instrument and agricultural machinery etc.

※技术参数：Technical Data




1. 聚四氟乙烯与铅的混合物 2. 球形青铜粉
3. 刚背 4. 电镀层
1. PTFE with lead 2. Porous bronze
3. Steel backing 4. Tin-plating

| | | |
|---|---|---|
| 最大承载 P Max Load Capacity | 静载 Static load | 250N/mm² |
| | 动载 Dynamic load | 140N/mm² |
| 最高线速度 V Max Sliding Speed | 干摩擦 Dry friction | 2.5m/s |
| | 油润滑 Oil lubrication | 5.0m/s |
| 最高PV值 Max PV Value Limit | 干摩擦 Dry friction | 3.6N/mm²·m/s |
| | 油润滑 Oil lubrication | 50N/mm²·m/s |
| 摩擦系数 μ Friction coefficient | 干摩擦 Dry friction | 0.08～0.20 |
| | 油润滑 Oil lubrication | 0.02～0.07 |
| 使用温度 Working temperature | | -195℃～+280℃ |
| 导热系数 Thermal conductivity | | 42W/m·K |
| 热膨胀系数 Coefficient of thermal expansion | | 11×10⁻⁶/K |

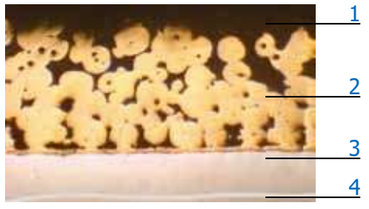


## SF-1W 碳钢基无铅自润滑轴承
## Carbon Steel Pb-free self-lubricating bearin

该产品与SF-1具有相同结构和使用性能，同时它具有环保的特点。产品广泛应用于汽车、食品工业机械、制药机械、饮料机械、医疗设备等绿色工业场合。

Carbon Steel Pb-free self-lubricating bearing which is in the same structure and properties as SF-1. Meanwhile it is characterized by environmental protection.It has been widely applied to automobile, food-processing machinery, pharmacy machinery, beverage machinery, medical equipment etc. On green industry occasions.

※技术参数：Technical Data




1. 聚四氟乙烯与纤维混合物 2. 球形青铜粉
3. 钢背 4. 电镀层
1. PTFE with fibre 2. Porous bronze
3. Steel backing 4. Tin-plating

| | | |
|---|---|---|
| 最大承载 P Max Load Capacity | 静载 Static load | 250N/mm² |
| | 动载 Dynamic load | 140N/mm² |
| 最高线速度 V Max Sliding Speed | 干摩擦 Dry friction | 2.5m/s |
| | 油润滑 Oil lubrication | 5.0m/s |
| 最高PV值 Max PV Value Limit | 干摩擦 Dry friction | 3.6N/mm²·m/s |
| | 油润滑 Oil lubrication | 50N/mm²·m/s |
| 摩擦系数 μ Friction coefficient | 干摩擦 Dry friction | 0.08～0.20 |
| | 油润滑 Oil lubrication | 0.02～0.07 |
| 使用温度 Working temperature | | -195℃～+280℃ |
| 导热系数 Thermal conductivity | | 42W/m·K |
| 热膨胀系数 Coefficient of thermal expansion | | 11×10⁻⁶/K |

## Self-lubricating Bearing

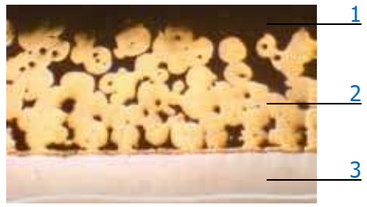


### SF-1B 铜基无铅自润滑轴承
### Bronze Pb-free self-lubricating bearings

该产品以特殊配方铜合金为基体，中间烧结球形青铜层，表面轧制聚四氟乙烯和亲油性纤维的混合物。它具有较好的自润滑、耐磨损、摩擦系数低、耐腐蚀等性能，产品广泛应用于冶金机械、连铸轧机、水泥灌浆机械、螺旋式输送机等。

SF-1B Bronze Pb-free self-lubricating bearing used bronze alloy as base with special formulation, sintered porous bronze as its interlayer and the Compound of PTFE and lipophilicity fiber as its surface. It offers the property of good self-lubricating, low wear, low friction, corrosion resistence. It has been widely applied to metallurgy steel machinery, joined casting machinery, cement grout pump and spiral conveyer machinery etc.

※技术参数：Technical Data




1. 聚四氟乙烯与亲油性纤维混合物
2. 球形青铜粉　3. 铜背
1. PTFE with Fiber　2. Porous bronze
3. Bronze backing

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 250N/mm² |
| | 动载 Dynamic load | 140N/mm² |
| 最高线速度 V<br>Max Sliding Speed | 干摩擦 Dry friction | 2.5m/s |
| | 油润滑 Oil lubrication | 5.0m/s |
| 最高PV值<br>Max PV Value Limit | 干摩擦 Dry friction | 3.6N/mm²·m/s |
| | 油润滑 Oil lubrication | 50N/mm²·m/s |
| 摩擦系数 μ<br>Friction coefficient | 干摩擦 Dry friction | 0.08～0.20 |
| | 油润滑 Oil lubrication | 0.02～0.07 |
| 使用温度 Working temperature | | -195℃～+280℃ |
| 导热系数 Thermal conductivity | | 70W/m·K |
| 热膨胀系数 Coefficient of thermal expansion | | 17×10⁻⁶/K |

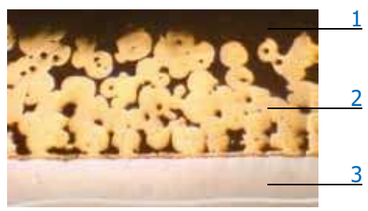


### SF-1D 碳钢基自润滑轴承（液压泵）
### Carbon steel self-lubricating bearing (hydraulic pump)

该产品与SF-1具有相同结构，是液压专用轴承，是结合油缸及减震器的工作原理而设计的特殊配方产品。它具有SF-1优点外，特别适用于往复频繁的大侧向力场合，产品适用于汽车减震器、摩托车减震器以及各种液压油缸等。

SF-1D has the same structure with SF-1, particularly suitable for hydraulic pump. It is a special formula designed by combining oil cylinder with the working principle of bumpers. Besides the advantages of SF-1, it is particularly applicable for the situation of great cross range force of frequent to-and-fro. It is applicable for automobile shock absorbers, motorcycle bumper and various hydraulic pressure cylinders etc.

※技术参数：Technical Data




1. 聚四氟乙烯与亲油性纤维混合物
2. 球形青铜粉　3. 铜背
1. PTFE with Fiber　2. Porous bronze
3. Bronze backing

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 250N/mm² |
| | 动载 Dynamic load | 140N/mm² |
| 最高线速度 V<br>Max Sliding Speed | 干摩擦 Dry friction | 3.0m/s |
| | 油润滑 Oil lubrication | 5.0m/s |
| 最高PV值<br>Max PV Value Limit | 干摩擦 Dry friction | 3.8N/mm²·m/s |
| | 油润滑 Oil lubrication | 50N/mm²·m/s |
| 摩擦系数 μ Friction coefficient | | 0.04～0.20 |
| 使用温度 Working temperature | | -195℃～+270℃ |
| 导热系数 Thermal conductivity | | 42W/m·K |



## Self-lubricating Bearing

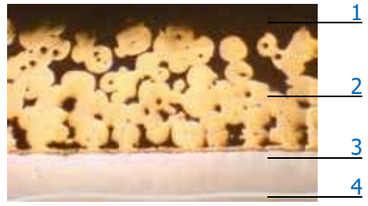


### SF-1T 碳钢基自润滑轴承（齿轮油泵）
### Carbon Steel self-lubricating bearing (Gear pump)

该产品与SF-1具有相同结构，是齿轮油泵专用轴承。根据齿轮油泵的高PV值条件而设计的特殊配方产品。它具有摩擦系数小而稳定，耐磨性能好，抗冲击的特点，产品广泛应用于齿轮油泵、柱塞泵、叶片泵等。

SF-1T Carbon Steel self-lubricating bearing (Gear pump) has the same structure as SF-1, it is special for gear pump. It is a special formula product devised by high PV value operational mode conditions of gear oil pump. Characterized by low friction factor, stability, well wearing performance and impact resistance, it has been widely applied to gear pumps, radial piston pumps and vane pumps etc.

※技术参数：Technical Data




1. 聚四氟乙烯与铅及其他填充混合物
2. 球形青铜粉　3. 钢背　4. 电镀层
1. PTFE with lead　2. Porous bronze
3. Steel backing　4. Tin-plating

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 250N/mm² |
| | 动载 Dynamic load | 140N/mm² |
| 最高线速度 V<br>Max Sliding Speed | 干摩擦 Dry friction | 2.5m/s |
| | 油润滑 Oil lubrication | 5.0m/s |
| 最高PV值<br>Max PV Value Limit | 干摩擦 Dry friction | 4.3N/mm²·m/s |
| | 油润滑 Oil lubrication | 60N/mm²·m/s |
| 摩擦系数 μ Friction coefficient | | 0.03～0.20 |
| 使用温度 Working temperature | | -195℃～+280℃ |
| 导热系数 Thermal conductivity | | 42W/m·K |

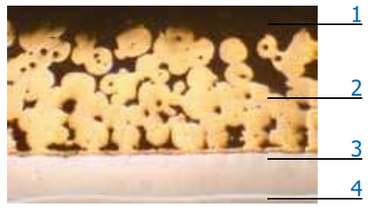


### SF-1P 碳钢基无铅自润滑轴承（减震器）
### Carbon Steel Pb-free self-lubricating bearing (absorber)

该产品与SF-1具有相同结构，是根据往复运动的特殊工况条件而设计的特殊配方产品，具有断油条件下润滑能力强，耐磨性能好，保持油膜的特点。产品广泛应用于汽车减震器、摩托车减震器、液压马达、气动元件等。

SF-1P Carbon Steel Pb-free self-lubricating bearing has the same structure as SF-1, particularly suitable for intermittent operation, reciprocating or oscillating movements. Characterized by good lubrication and wear performace in the conditions of dry operation of oil. It is applied to shock absorber of automobile, motorcycles and various hydraulic motors and pneumatic elements etc.

※技术参数：Technical Data




1. 聚四氟乙烯与铜的混合物　2. 球形青铜粉
3. 刚背　4. 电镀层
1. PTFE with CU　2. Porous bronze
3. Steel backing　4. Tin-plating

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 250N/mm² |
| | 动载 Dynamic load | 140N/mm² |
| 最高线速度 V<br>Max Sliding Speed | 干摩擦 Dry friction | 2.5m/s |
| | 油润滑 Oil lubrication | 5.0m/s |
| 最高PV值<br>Max PV Value Limit | 干摩擦 Dry friction | 3.6N/mm²·m/s |
| | 油润滑 Oil lubrication | 50N/mm²·m/s |
| 摩擦系数 μ Friction coefficient | | 0.04～0.20 |
| 使用温度 Working temperature | | -195℃～+270℃ |
| 导热系数 Thermal conductivity | | 42W/m·K |

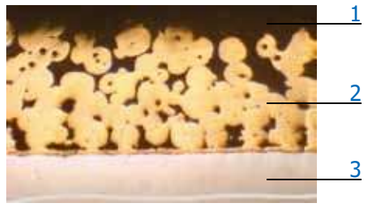
# Self-lubricating Bearing



## SF-1S 不锈钢基自润滑轴承
### Stainless steel self-lubricating bearing

该产品以不锈钢为基体，中间烧结球形青铜层，表面轧制聚四氟乙烯和铅的混合物。它具有较好的自润滑、耐磨损、摩擦系数低、耐腐蚀等性能。产品广泛应用于印染机械、化工机械、海洋工业耐腐蚀部位等。

SF-1S Stainless steel self-lubricating bearing uses stainless steel as base, sintered porous bronze as its interlayer and the Compound of PTFE and Lead as its surface. It offer the property of good self-lubrication, low wear, low friction, corrosion resistence. It has been widely applied to dyeing machinery, chemical engineering machinery and marine industry etc.




1. 聚四氟乙烯与亲油性纤维混合物
2. 球形青铜粉　3. 铜背
1. PTFE with Fiber　2. Porous bronze
3. Bronze backing

※技术参数：Technical Data

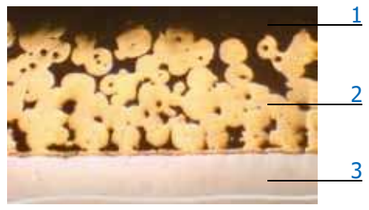
| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 250N/mm$^2$ |
| | 动载 Dynamic load | 140N/mm$^2$ |
| 最高线速度 V<br>Max Sliding Speed | 干摩擦 Dry friction | 2.0m/s |
| | 油润滑 Oil lubrication | 5.0m/s |
| 最高PV值<br>Max PV Value Limit | 干摩擦 Dry friction | 3.6N/mm$^2$ • m/s |
| | 油润滑 Oil lubrication | 50N/mm$^2$ • m/s |
| 摩 擦 系 数 μ<br>Friction coefficient | 干摩擦 Dry friction | 0.08～0.20 |
| | 油润滑 Oil lubrication | 0.02～0.07 |
| 使用温度 Working temperature | | -195℃～+280℃ |
| 导热系数 Thermal conductivity | | 42W/m • K |
| 热膨胀系数 Coefficient of thermal expansion | | 15×10$^{-6}$/K |



## SF-1SS 不锈钢基无铅自润滑轴承
### Stainless steel Pb-free self-lubricating bearing

该产品以不锈钢为基体，表面喷涂聚四氟乙烯。它具有较好的耐酸、耐碱、耐海水、环保等特点。产品广泛应用于化工中酸碱流量计、泵、阀以及海洋工业耐腐蚀部位等。

SF-1SS Stainless steel Pb-free self-lubricating bearing used stainless steel material as base, spray painting PTFE on the surface. It is characterized by acid-resistant, alkaline-resistant, ocean water resistant and environmental protection. It is t is used widely as fluid valve of measuring acid and alkalizing flow in chemical industry, and corrosion resisting sliding position in marine industry.




1. 聚四氟乙烯与亲油性纤维混合物
2. 球形青铜粉　3. 铜背
1. PTFE with Fiber　2. Porous bronze
3. Bronze backing

※技术参数：Technical Data

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | | 120N/mm$^2$ |
| 最高线速度 V<br>Max Sliding Speed | | 2.5m/s |
| 最高PV值<br>Max PV Value Limit | 静载 Static load | 3.0N/mm$^2$ • m/s |
| | 动载 Dynamic load | 40N/mm$^2$ • m/s |
| 摩 擦 系 数 μ<br>Friction coefficient | 干摩擦 Dry friction | 0.10～0.25 |
| | 油润滑 Oil lubrication | 0.05～0.10 |
| 使用温度 Working temperature | | -195℃～+270℃ |
| 导热系数 Thermal conductivity | | 42W/m • K |

自润滑轴承
Self-lubricating Bearing
欧必帝轴承
OBD SELF-LUBRICATINGBEARING

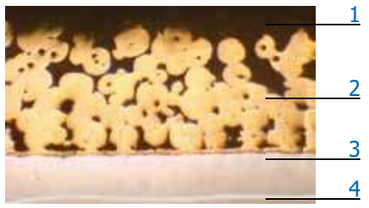
# Self-lubricating Bearing



## FR 铜网无铅自润滑轴承
### Bronze mesh self-lubricating bearing without lead

该产品以青铜丝网为基体，通过特殊工艺，表面轧制聚四氟乙烯和亲油性纤维。它具有较低的摩擦系数、较好的耐磨性以及柔软性好。产品广泛应用于纺织机械关节轴承、汽车门铰链、汽车操纵杆等场合。

FR Bronze Pb-free self-lubricating bearing uses bronze mesh as its structure, by means of special technology, rolled by PTFE at the surface and lipophilicity fiber. It performs well with lower friction and well anti-wear good pliability. It has been widely used in linkage of textile machinery, tailgate hinges, automotive steering and so on.




1. 聚四氟乙烯与铅及其他填充混合物
2. 球形青铜粉　3. 钢背　4. 电镀层
1. PTFE with lead　2. Porous bronze
3. Steelbacking　4. Tin-plating

※技术参数：Technical Data

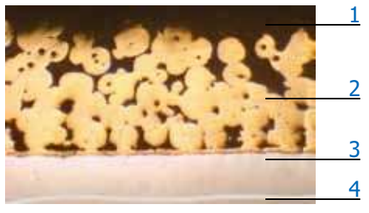
| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 80N/mm$^2$ |
| | 动载 Dynamic load | 40N/mm$^2$ |
| 最高线速度 V<br>Max Sliding Speed | 干摩擦 Dry friction | 1.0m/s |
| | 油润滑 Oil lubrication | 2.5m/s |
| 最高PV值<br>Max PV Value Limit | | 1.65N/mm$^2$ • m/s |
| 摩 擦 系 数 μ<br>Friction coefficient | | 0.05~0.20 |
| 使用温度 Working temperature | | -40℃～+260℃ |



## TEX 碳钢基PTFE织物无铅自润滑轴承
### Carbon steel PTFE fabric Pb-free self-lubricating bearing

该产品以优质低碳钢为基体，表面覆着以聚四氟乙烯织物。它具有更高承载力、更长的使用寿命。产品广泛应用于农用机械、球阀、蝶阀、水泵以及化工工业等重载低速而无法加油的领域。

TEX is based on steel backing as its structure, the surface is laid with PTFE fabric. It performs well with heavy load and long lifetime.It is widely applies to agriculture machinery, sphere valve, butterfly valve , pumps, chemical industry in the conditions of heavy load, low velocity but unable oiling conditions.




1. 聚四氟乙烯与铜的混合物　2. 球形青铜粉
3. 刚背　4. 电镀层
1. PTFE with CU　2. Porous bronze
3. Steelbacking　4. Tin-plating

※技术参数：Technical Data

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 350N/mm$^2$ |
| | 动载 Dynamic load | 180N/mm$^2$ |
| 最高线速度 V<br>Max Sliding Speed | 干摩擦 Dry friction | 0.5m/s |
| | 油润滑 Oil lubrication | 2.5m/s |
| 最高PV值<br>Max PV Value Limit | | 3.6N/mm$^2$ • m/s |
| 摩 擦 系 数 μ<br>Friction coefficient | | 0.03~0.20 |
| 使用温度 Working temperature | | -50℃～+250℃ |

# SF-1/1W/1B/1D/1T/1P/1S/1SS

轴套外径公差表
Bushing O.D. Tolerances Table

| | |
|---|---|
| ΦD≤10 | +0.055<br>+0.025 |
| 10＜ΦD≤18 | +0.065<br>+0.030 |
| 18＜ΦD≤30 | +0.075<br>+0.035 |
| 30＜ΦD≤50 | +0.085<br>+0.045 |
| 50＜ΦD≤80 | +0.100<br>+0.055 |
| 80＜ΦD≤120 | +0.120<br>+0.070 |
| 120＜ΦD≤180 | +0.170<br>+0.100 |
| 180＜ΦD≤250 | +0.210<br>+0.130 |
| 250＜ΦD≤305 | +0.260<br>+0.170 |

轴套壁厚公差
Bushing Wall Thickness Tolerances Table

| | |
|---|---|
| Φd＜5 | $0.75\ ^{0}_{-0.020}$ |
| 5≤Φd≤18 | $1.0\ ^{+0.005}_{-0.020}$ |
| 18＜Φd≤25 | $1.5\ ^{+0.005}_{-0.025}$ |
| 25＜Φd＜45 | $2.0\ ^{+0.005}_{-0.030}$ |
| 45≤Φd＜80 | $2.5\ ^{+0.005}_{-0.040}$ |
| 80≤Φd＜120 | $2.5\ ^{-0.010}_{-0.060}$ |
| Φd≥120 | $2.5\ ^{-0.035}_{-0.085}$ |

可供标准产品的标注方式　Standard Bushing Label Mode

■ 直套标注方式 Bushing Label Mode

SF-1□ ×× ××
直套型号 Bushing Type
直套内径 Bushing Inner Diameter
直套高度 Bushing Length

■ 英制直套标注方式 The Inch Bushing Label Mode

SF-1□ ×× ××
直套型号 Bushing Type
直套内径 Bushing Inner Diameter
直套高度 Bushing Length

■ 翻边套标注方式 Flange Bushing Label Mode

SF-1□F ×× ×××
翻边套型号 Flange Bushing Type
翻边套内径 Flange Bushing Inner Diameter
翻边套高度 Flange Bushing Length

■ 英制翻边套标注方式 The Inch Flange Bushing Label Mode

SF-1□F ××
垫片型号 Washer Type
垫片规格 Washer Specification

■ 垫片标注方式 Washer Label Mode

SF-1□W ××
垫片型号 Washer Type
垫片规格 Washer Specification

■ 英制垫片标注方式 The Inch Washer Label Mode

SF-1□W ×× ××
垫片型号 Washer Type
垫片规格 Washer Specification
垫片规格 Washer Specification

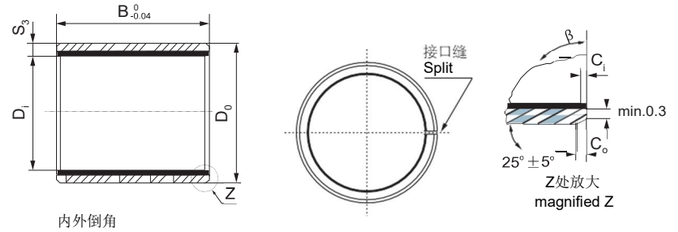
■ 板材标注方式 Strip Label Mode

SF-1□P ××× ×××
板材型号 Strip Type
板材厚度 Strip Wall Thickness
板材宽度 Strip Width



# SF-1/1W/1B/1D/1T/1P/1S/1SS






| $S_3$ | $C_o$ | $C_i$ | β |
|---|---|---|---|
| 0.75 | 0.5±0.3 | 0.25±0.2 | 30°±5° |
| 1.00 | 0.6±0.3 | 0.30±0.2 | 30°±5° |
| 1.50 | 0.7±0.3 | 0.50±0.3 | 30°±5° |

| $S_3$ | $C_o$ | $C_i$ | β |
|---|---|---|---|
| 2.00 | 1.2±0.4 | 0.50±0.3 | 30°±5° |
| 2.50 | 1.8±0.6 | 0.60±0.3 | 45°±5° |
| | | | |

※标准直套标注方式：Standard Bushing Label Mode SF-1□ 0606

单位unit:mm

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF-1□ | $6\ ^{-0.010}_{-0.022}$ | $8\ ^{+0.015}$ | $8\ ^{+0.055}_{+0.025}$ | 6.055<br>5.990 | 0.077<br>0.000 | | 0606 | 0608 | 0610 | | | | | | | | | | |
| SF-1□ | $8\ ^{-0.013}_{-0.028}$ | $10\ ^{+0.015}$ | $10\ ^{+0.055}_{+0.025}$ | 8.055<br>7.990 | 0.083<br>0.003 | | 0806 | 0808 | 0810 | 0812 | 0815 | | | | | | | | |
| SF-1□ | $10\ ^{-0.013}_{-0.028}$ | $12\ ^{+0.018}$ | $12\ ^{+0.065}_{+0.030}$ | 10.058<br>9.990 | 0.086<br>0.003 | | 1006 | 1008 | 1010 | 1012 | 1015 | 1020 | | | | | | | |
| SF-1□ | $12\ ^{-0.016}_{-0.034}$ | $14\ ^{+0.018}$ | $14\ ^{+0.065}_{+0.030}$ | 12.058<br>11.990 | 0.092<br>0.006 | 1.005<br>0.980 | 1206 | 1208 | 1210 | 1212 | 1215 | 1220 | 1225 | | | | | | |
| SF-1□ | $13\ ^{-0.016}_{-0.034}$ | $15\ ^{+0.018}$ | $15\ ^{+0.065}_{+0.030}$ | 13.058<br>12.990 | | | | | 1310 | | | 1320 | | | | | | | |
| SF-1□ | $14\ ^{-0.016}_{-0.034}$ | $16\ ^{+0.018}$ | $16\ ^{+0.065}_{+0.030}$ | 14.058<br>13.990 | | | | | 1410 | 1412 | 1415 | 1420 | 1425 | | | | | | |
| SF-1□ | $15\ ^{-0.016}_{-0.034}$ | $17\ ^{+0.018}$ | $17\ ^{+0.065}_{+0.030}$ | 15.058<br>14.990 | | | | | 1510 | 1512 | 1515 | 1520 | 1525 | | | | | | |
| SF-1□ | $16\ ^{-0.016}_{-0.034}$ | $18\ ^{+0.018}$ | $18\ ^{+0.065}_{+0.030}$ | 16.058<br>15.990 | | | | | 1610 | 1612 | 1615 | 1620 | 1625 | | | | | | |
| SF-1□ | $17\ ^{-0.016}_{-0.034}$ | $19\ ^{+0.021}$ | $19\ ^{+0.075}_{+0.035}$ | 17.061<br>16.990 | 0.095<br>0.006 | | | | 1710 | 1712 | | 1720 | | | | | | | |
| SF-1□ | $18\ ^{-0.016}_{-0.034}$ | $20\ ^{+0.021}$ | $20\ ^{+0.075}_{+0.035}$ | 18.061<br>17.990 | | | | | 1810 | 1812 | 1815 | 1820 | 1825 | | | | | | |
| SF-1□ | $20\ ^{-0.020}_{-0.041}$ | $23\ ^{+0.021}$ | $23\ ^{+0.075}_{+0.035}$ | 20.071<br>19.990 | 0.112<br>0.010 | 1.505<br>1.475 | | | 2010 | 2012 | 2015 | 2020 | 2025 | 2030 | | | | | |
| SF-1□ | $22\ ^{-0.020}_{-0.041}$ | $25\ ^{+0.021}$ | $25\ ^{+0.075}_{+0.035}$ | 22.071<br>21.990 | | | | | 2210 | 2212 | 2215 | 2220 | 2225 | 2230 | | | | | |
| SF-1□ | $24\ ^{-0.020}_{-0.041}$ | $27\ ^{+0.021}$ | $27\ ^{+0.075}_{+0.035}$ | 24.071<br>23.990 | | | | | | | 2415 | 2420 | 2425 | 2430 | | | | | |
| SF-1□ | $25\ ^{-0.020}_{-0.041}$ | $28\ ^{+0.021}$ | $28\ ^{+0.075}_{+0.035}$ | 25.071<br>24.990 | | | | | 2510 | 2512 | 2515 | 2520 | 2525 | 2530 | 2540 | 2550 | | | |
| SF-1□ | $28\ ^{-0.020}_{-0.041}$ | $32\ ^{+0.025}$ | $32\ ^{+0.085}_{+0.045}$ | 28.085<br>27.990 | 0.126<br>0.010 | 2.005<br>1.970 | | | | | 2815 | 2820 | 2825 | 2830 | 2840 | | | | |
| SF-1□ | $30\ ^{-0.020}_{-0.041}$ | $34\ ^{+0.025}$ | $34\ ^{+0.085}_{+0.045}$ | 30.085<br>29.990 | | | | | | 3012 | 3015 | 3020 | 3025 | 3030 | 3040 | | | | |
| SF-1□ | $32\ ^{-0.025}_{-0.050}$ | $36\ ^{+0.025}$ | $36\ ^{+0.085}_{+0.045}$ | 32.085<br>31.990 | | | | | | | | 3220 | | 3230 | 3240 | | | | |
| SF-1□ | $35\ ^{-0.025}_{-0.050}$ | $39\ ^{+0.025}$ | $39\ ^{+0.085}_{+0.045}$ | 35.085<br>34.990 | 0.135<br>0.015 | | | | | 2512 | 2515 | 2520 | 2525 | 2530 | 2540 | 3550 | | | |
| SF-1□ | $38\ ^{-0.025}_{-0.050}$ | $42\ ^{+0.025}$ | $42\ ^{+0.085}_{+0.045}$ | 38.085<br>37.990 | | | | | | | 3815 | | | 3830 | 3840 | | | | |
| SF-1□ | $40\ ^{-0.025}_{-0.050}$ | $44\ ^{+0.025}$ | $44\ ^{+0.085}_{+0.045}$ | 40.085<br>39.990 | | | | | | 4012 | | 4020 | 4025 | 4030 | 4040 | 4050 | | | |

# SF-1/1W/1B/1D/1T/1P/1S/1SS 标准公制直套
# Metric Standard Bushing

欧必帝轴承
OBD SELF-LUBRICATINGBEARING

## SF-1/1W/1B/1D/1T/1P/1S/1SS

单位unit:mm

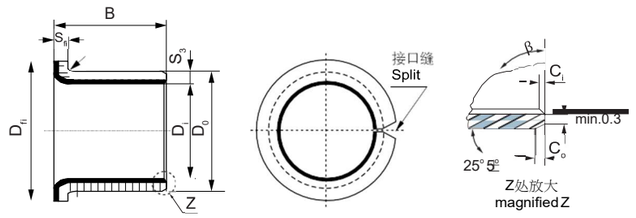
| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF-1□ | 45 -0.050 -0.025 | 50 +0.025 | 50 +0.085 +0.045 | 45.105 44.990 | 0.155 0.015 | 2.505 2.460 | 4520 | 4525 | 4530 | 4540 | 4550 | | | | | |
| SF-1□ | 50 -0.050 -0.025 | 55 +0.030 | 55 +0.100 +0.055 | 50.110 49.990 | 0.160 0.015 | | 5020 | | 5030 | 5040 | 5050 | 5060 | | | | |
| SF-1□ | 55 -0.060 -0.030 | 60 +0.030 | 60 +0.100 +0.055 | 55.110 54.990 | 0.170 0.020 | | | | 5530 | 5540 | 5550 | 5560 | | | | |
| SF-1□ | 60 -0.060 -0.030 | 65 +0.030 | 65 +0.100 +0.055 | 60.110 59.990 | | | | | 6030 | 6040 | 6050 | 6060 | 6070 | | | |
| SF-1□ | 65 -0.060 -0.030 | 70 +0.030 | 70 +0.100 +0.055 | 65.110 64.990 | | | | | 6530 | 6540 | 6550 | 6560 | 6570 | | | |
| SF-1□ | 70 -0.060 -0.030 | 75 +0.030 | 75 +0.100 +0.055 | 70.110 69.990 | | | | | | 7040 | 7050 | 7060 | 7070 | 7080 | | |
| SF-1□ | 75 -0.060 -0.030 | 80 +0.030 | 80 +0.100 +0.055 | 75.110 74.990 | | | | | 7530 | 7540 | 7550 | 7560 | 7570 | 7580 | | |
| SF-1□ | 80 -0.045 | 85 +0.035 | 85 +0.120 +0.070 | 80.155 80.020 | 0.201 0.020 | 2.490 2.440 | | | | 8040 | 8050 | 8060 | 8070 | 8080 | 80100 | |
| SF-1□ | 85 -0.054 | 90 +0.035 | 90 +0.120 +0.070 | 85.155 85.020 | 0.209 0.020 | | | | | 8540 | | 8560 | | 8580 | 85100 | |
| SF-1□ | 90 -0.054 | 95 +0.035 | 95 +0.120 +0.070 | 90.155 90.020 | | | | | | 9040 | 9050 | 9060 | | 9080 | 90100 | |
| SF-1□ | 95 -0.054 | 100 +0.035 | 100 +0.120 +0.070 | 95.155 95.020 | | | | | | | 9550 | 9560 | | 9580 | 95100 | |
| SF-1□ | 100 -0.054 | 105 +0.035 | 105 +0.120 +0.070 | 100. 155100. | | | | | | | 10050 | 10060 | | 10080 | | 100115 |
| SF-1□ | 105 -0.054 | 110 +0.035 | 110 +0.120 +0.070 | 020105. 155105. | | | | | | | | 10560 | | 10580 | | 105115 |
| SF-1□ | 110 -0.054 | 115 +0.035 | 115 +0.120 +0.070 | 020110. 110.020 115 | | | | | | | | 11060 | | 11080 | | 110115 |
| SF-1□ | 120 -0.054 | 125 +0.040 | 125 +0.170 +0.100 | 120.210 120.070 | 0.264 0.070 | 2.465 2.415 | | | | | | 12060 | | 12080 | 120100 | |
| SF-1□ | 125 -0.063 | 130 +0.040 | 130 +0.170 +0.100 | 125.210 125.070 | 0.273 0.070 | | | | | | | 12560 | | | 125100 | 125115 |
| SF-1□ | 130 -0.063 | 135 +0.040 | 135 +0.170 +0.100 | 130.210 130.070 | | | | | | | | 13060 | | 13080 | 130100 | |
| SF-1□ | 140 -0.063 | 145 +0.040 | 145 +0.170 +0.100 | 140.210 140.070 | | | | | | | | 14060 | | 14080 | 140100 | |
| SF-1□ | 150 -0.063 | 155 +0.040 | 155 +0.170 +0.100 | 150.210 150.070 | | | | | | | | 15060 | | 15080 | 150100 | |
| SF-1□ | 160 -0.063 | 165 +0.040 | 165 +0.170 +0.100 | 160.210 160.070 | | | | | | | | 16060 | | 16080 | 160100 | 160115 |
| SF-1□ | 180 -0.063 | 185 +0.046 | 185 +0.210 +0.130 | 180.216 180.070 | 0.279 0.070 | 2.465 2.415 | | | | | | | | 18080 | 180100 | |
| SF-1□ | 190 -0.072 | 195 +0.046 | 195 +0.210 +0.130 | 190.216 190.070 | 0.288 0.070 | | | | | | | | | 19080 | 190100 | |
| SF-1□ | 200 -0.072 | 205 +0.046 | 205 +0.210 +0.130 | 200.016 200.070 | | | | | | | | | | 20080 | 200100 | |
| SF-1□ | 220 -0.072 | 225 +0.046 | 225 +0.210 +0.130 | 220.216 220.070 | | | | | | | | 20060 | | 22080 | 220100 | |
| SF-1□ | 250 -0.072 | 255 +0.052 | 255 +0.260 +0.170 | 250.222 250.070 | 0.294 0.070 | 2.465 2.415 | | | | | | | | 25080 | 250100 | |
| SF-1□ | 260 -0.081 | 265 +0.052 | 265 +0.260 +0.170 | 260.222 260.070 | 0.303 0.070 | | | | | | | | | 26080 | 260100 | |
| SF-1□ | 280 -0.081 | 285 +0.052 | 285 +0.260 +0.170 | 280.222 280.070 | | | | | | | | | | 28080 | 280100 | |
| SF-1□ | 300 -0.081 | 300 +0.052 | 300 +0.260 +0.170 | 300.222 300.070 | | | | | | | | | | | | |

# SF-1/1W/1B/1D/1T/1P/1S/1SS 标准公制翻边轴套
# Metric Standard Flange Bushing

欧必帝轴承
OBD SELF-LUBRICATINGBEARING

## SF-1/1W/1B/1D/1T/1P/1S/1SS






| $S_3$ | 1.0 | 1.5 | 2.0 | 2.5 |
|---|---|---|---|---|
| r | $1^{-0.5}$ | 1±0.5 | 1.5±0.5 | 2±0.5 |

※标准翻边套标注方式：Standard Flange Bushing Label Mode SF-1□F 06040

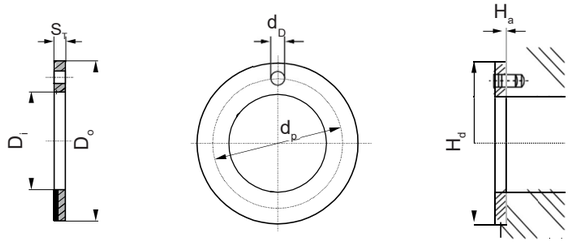
单位unit:mm

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF-1□F 06040 | 6 -0.013 -0.028 | 8 +0.015 | 8 +0.055 +0.025 | 6.055 5.990 | 0.077 0.000 | 1.005 0.980 | 6 | 8 | 12 | 4 | 1 | |
| SF-1□F 06070 | | | | | | | | | | 7 | | |
| SF-1□F 08055 | 8 -0.013 -0.028 | 10 +0.015 | 10 +0.055 +0.025 | 8.055 7.990 | 0.083 0.003 | | 8 | 10 | 15 | 5.5 | | |
| SF-1□F 08075 | | | | | | | | | | 7.5 | | |
| SF-1□F 10070 | 10 -0.016 -0.034 | 12 +0.018 | 12 +0.055 +0.025 | 10.058 9.990 | 0.086 0.003 | | 10 | 12 | 18 | 7 | | |
| SF-1□F 10090 | | | | | | | | | | 9 | | |
| SF-1□F 10120 | | | | | | | | | | 12 | | |
| SF-1□F 12070 | 12 -0.016 -0.034 | 14 +0.018 | 14 +0.065 +0.030 | 12.058 11.990 | 0.092 0.006 | | 12 | 14 | 20 | 7 | | |
| SF-1□F 12090 | | | | | | | | | | 9 | | |
| SF-1□F 12120 | | | | | | | | | | 12 | | |
| SF-1□F 14120 | 14 -0.016 -0.043 | 16 +0.018 | 16 +0.065 +0.030 | 14.058 13.990 | | | 14 | 16 | 22 | 12 | | |
| SF-1□F 14170 | | | | | | | | | | 17 | | |
| SF-1□F 15090 | 15 -0.016 -0.034 | 17 +0.018 | 17 +0.065 +0.030 | 15.058 14.990 | | | 15 | 17 | 23 | 9 | | |
| SF-1□F 15120 | | | | | | | | | | 12 | | |
| SF-1□F 15170 | | | | | | | | | | 17 | | |
| SF-1□F 16120 | 16 -0.016 -0.034 | 18 +0.018 | 18 +0.065 +0.030 | 16.058 15.990 | | | 16 | 18 | 24 | 12 | | |
| SF-1□F 16170 | | | | | | | | | | 17 | | |
| SF-1□F 18120 | 18 -0.016 -0.034 | 20 +0.021 | 20 +0.075 +0.035 | 18.061 17.990 | 0.095 0.006 | | 18 | 20 | 26 | 12 | | |
| SF-1□F 18170 | | | | | | | | | | 17 | | |
| SF-1□F 18200 | | | | | | | | | | 20 | | |
| SF-1□F 20115 | 20 -0.020 -0.041 | 23 +0.021 | 23 +0.075 +0.035 | 20.071 19.990 | 0.112 0.010 | 1.505 1.475 | 20 | 23 | 30 | 11.5 | 1.5 | |
| SF-1□F 20165 | | | | | | | | | | 16.5 | | |
| SF-1□F 20215 | | | | | | | | | | 21.5 | | |
| SF-1□F 22150 | 22 -0.020 -0.041 | 25 +0.021 | 25 +0.075 +0.035 | 22.071 21.990 | | | 22 | 25 | 32 | 15 | | |
| SF-1□F 22200 | | | | | | | | | | 20 | | |
| SF-1□F 25115 | 25 -0.020 -0.041 | 28 +0.021 | 28 +0.075 +0.035 | 25.071 24.990 | | | 25 | 28 | 35 | 11.5 | | |
| SF-1□F 25165 | | | | | | | | | | 16.5 | | |
| SF-1□F 25215 | | | | | | | | | | 21.5 | | |
| SF-1□F 30160 | 30 -0.025 -0.050 | 34 +0.025 | 34 +0.075 +0.035 | 30.285 29.990 | 0.126 0.010 | 2.005 1.970 | 30 | 34 | 42 | 16 | 2 | |
| SF-1□F 30260 | | | | | | | | | | 26 | | |
| SF-1□F 35160 | 35 -0.025 -0.050 | 39 +0.025 | 39 +0.085 +0.045 | 35.085 34.990 | 0.135 0.015 | | 35 | 39 | 47 | 16 | | |
| SF-1□F 35260 | | | | | | | | | | 26 | | |
| SF-1□F 40260 | 40 -0.025 -0.050 | 44 +0.025 | 44 +0.085 +0.045 | 40.085 39.990 | | | 40 | 44 | 53 | 26 | | |
| SF-1□F 40400 | | | | | | | | | | 40 | | |

# SF-1/1W/1B/1D/1T/1P/1S/1SS 标准公制垫片
# Metric Standard Washer

## SF-1/1W/1B/1D/1T/1P/1S/1SS



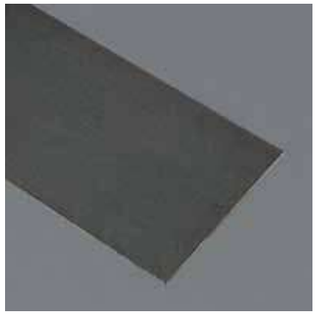


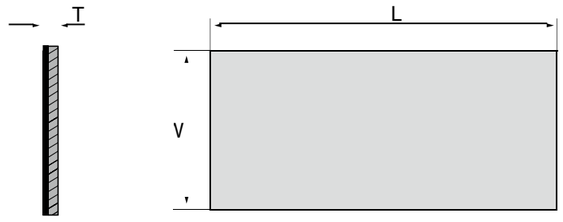

※标准垫片标注方式：Standard Washer Label Mode SF-1□W10

单位unit:mm

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SF-1□W10 | 8 | 10 | 20 | 1.5 | 15 | 1.5 | 1 | 20 |
| SF-1□W12 | 10 | 12 | 24 | | 18 | | | 24 |
| SF-1□W14 | 12 | 14 | 26 | | 20 | 2 | | 26 |
| SF-1□W16 | 14 | 16 | 30 | | 23 | | | 30 |
| SF-1□W18 | 16 | 18 | 32 | | 25 | | | 32 |
| SF-1□W20 | 18 | 20 | 36 | | 28 | 3 | | 36 |
| SF-1□W22 | 20 | 22 | 38 | | 30 | | | 38 |
| SF-1□W24 | 22 | 24 | 42 | | 33 | | | 42 |
| SF-1□W26 | 24 | 26 | 44 | | 35 | | | 44 |
| SF-1□W28 | 26 | 28 | 48 | | 38 | 4 | | 48 |
| SF-1□W32 | 30 | 32 | 54 | | 43 | | | 54 |
| SF-1□W38 | 36 | 38 | 62 | | 50 | | | 62 |
| SF-1□W42 | 40 | 42 | 66 | | 54 | | | 66 |
| SF-1□W48 | 46 | 48 | 74 | 2 | 61 | | 1.5 | 74 |
| SF-1□W52 | 50 | 52 | 78 | | 65 | | | 78 |
| SF-1□W62 | 60 | 62 | 90 | | 76 | | | 90 |

# SF-1/1W/1B/1D/1T/1P/1S/1SS 标准公制滑板
# Metric Standard Strip






※标准板材标注方式：Standard Strip Label Mode SF-1□P 010130

单位unit:mm

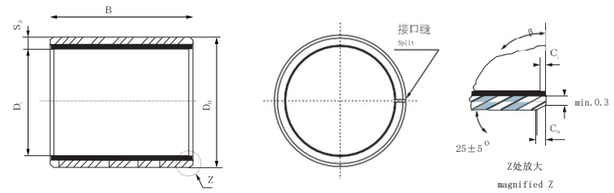
| | | | |
|---|---|---|---|
| SF-1□P 010130 | 500 | 130 | 1.0 |
| SF-1□P 015130 | 500 | 130 | 1.5 |
| SF-1□P 020130 | 500 | 130 | 2.0 |
| SF-1□P 025130 | 500 | 130 | 2.5 |



# SF-1/1W/1B/1D/1T/1P/1S/1SS 标准英制直套
# Inch Standard Cylindrical Bushing

## SF-1/1W/1B/1D/1T/1P/1S/1SS






| $S_3$ | $C_o$ | $C_i$ | β |
|---|---|---|---|
| 0.0315 | 0.008-0.030 | 0.002-0.018 | 30°±5° |
| 0.0472 | 0.012-0.035 | 0.006-0.022 | 30°±5° |
| 0.0630 | 0.015-0.040 | 0.008-0.032 | 30°±5° |

| $S_3$ | $C_o$ | $C_i$ | β |
|---|---|---|---|
| 0.0787 | 0.030-0.060 | 0.008-0.032 | 30°±5° |
| 0.0945 | 0.050-0.095 | 0.020-0.043 | 45°±5° |
| | | | |

※标准英制直套标注方式：Standard Inch Bushing Label Mode SF-1□ 02DU02

单位unit: inch

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0.1243<br>0.1236 | 0.1878<br>0.1873 | 0.1268<br>0.1243 | 0.0032<br>0.0000 | 02IB02 | 02IB03 | | | | |
| 0.1554<br>0.1547 | 0.2191<br>0.2186 | 0.1581<br>0.1556 | 0.0034<br>0.0002 | 025IB025 | 025IB04 | | | | |
| 0.1865<br>0.1858 | 0.2503<br>0.2497 | 0.1893<br>0.1867 | 0.0035<br>0.0002 | 03IB03 | 03IB04 | 03IB06 | | | |
| 0.2490<br>0.2481 | 0.3128<br>0.3122 | 0.2518<br>0.2492 | 0.0037<br>0.0002 | 04IB04 | 04IB06 | | | | |
| 0.3115<br>0.3106 | 0.3753<br>0.3747 | 0.3143<br>0.3117 | | 05IB16 | 05IB08 | | | | |
| 0.3740<br>0.3731 | 0.4691<br>0.4684 | 0.3769<br>0.3742 | 0.0038<br>0.0002 | 06IB03 | 06IB04 | 06IB06 | 06IB08 | 06IB10 | 06IB12 |
| 0.4365<br>0.4355 | 0.5316<br>0.5309 | 0.4394<br>0.4367 | 0.0039<br>0.0002 | 07IB08 | 07IB12 | | | | |
| 0.4990<br>0.4980 | 0.5941<br>0.5934 | 0.5019<br>0.4992 | | 08IB04 | 08IB06 | 08IB08 | 08IB10 | 08IB12 | 08IB14 |
| 0.5615<br>0.5605 | 0.6566<br>0.6559 | 0.5644<br>0.5617 | | 19IB06 | 09IB08 | 09IB10 | 09IB12 | | |
| 0.6240<br>0.6230 | 0.7192<br>0.7184 | 0.6270<br>0.6242 | 0.0040<br>0.0002 | 10IB04 | 10IB08 | 10IB10 | 10IB12 | 10IB14 | 10IB16 |
| 0.6865<br>0.6855 | 0.7817<br>0.7809 | 0.6895<br>0.6867 | | 11IB14 | | | | | |
| 0.7491<br>0.7479 | 0.8755<br>0.8747 | 0.7525<br>0.7493 | 0.0046<br>0.0002 | 12IB04 | 12IB06 | 12IB08 | 12IB10 | 12IB12 | 12IB16 |
| 0.8116<br>0.8104 | 0.9380<br>0.9372 | 0.8150<br>0.8118 | | 13IB12 | 13IB18 | | | | |
| 0.8741<br>0.8729 | 1.0005<br>0.9997 | 0.8775<br>0.8743 | | 14IB04 | 14IB06 | 14IB12 | 14IB16 | 14IB20 | |
| 0.9991<br>0.9979 | 1.1255<br>1.1247 | 1.0025<br>0.9993 | | 16IB06 | 16IB08 | 16IB12 | 16IB16 | 16IB20 | 16IB24 |
| 1.1238<br>1.1226 | 1.2818<br>1.2808 | 1.1278<br>1.1240 | 0.0052<br>0.0002 | 18IB06 | 18IB10 | 18IB12 | 18IB16 | | |
| 1.2488<br>1.2472 | 1.4068<br>1.4058 | 1.2528<br>1.2490 | 0.0056<br>0.0002 | 20IB06 | 20IB12 | 20IB14 | 20IB16 | 20IB20 | 20IB28 |
| 1.3738<br>1.3722 | 1.5318<br>1.5308 | 1.3778<br>1.3740 | | 22IB12 | 22IB12 | 22IB24 | 22IB28 | | |
| 1.4988<br>1.4972 | 1.6568<br>1.6558 | 1.5028<br>1.4990 | | 24IB08 | 24IB16 | 24IB18 | 24IB20 | 24IB24 | 24IB32 |
| 1.6238<br>1.6222 | 1.7818<br>1.7808 | 1.6278<br>1.6240 | | 26IB16 | 26IB24 | | | | |
| 1.7487<br>1.7471 | 1.9381<br>1.9371 | 1.7535<br>1.7489 | 0.0064<br>0.0002 | 28IB16 | 28IB24 | 28IB32 | | | |

# SF-1/1W/1B/1D/1T/1P/1S/1SS 标准英制直套
## Inch Standard Cylindrical Bushing

## SF-1/1W/1B/1D/1T/1P/1S/1SS

单位unit: inch

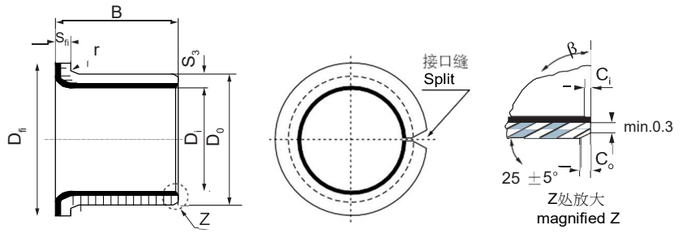
| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.8737<br>1.8721 | 2.0633<br>2.0621 | 1.<br>87871. | 0.<br>00660. | 30IB12 | 30IB16 | 30IB36 | | | | | | |
| 1.9987<br>1.9969 | 2.1883<br>2.1871 | 87392.<br>00371. | 00020.<br>00680. | 32IB08 | 32IB16 | 32IB24 | 32IB28 | 32IB32 | 32IB40 | | | |
| 2.1257<br>2.1239 | 2.3130<br>2.3118 | 99892.<br>13262. | 00020.<br>00870. | 34IB48 | | | | | | | | |
| 2.2507<br>2.2489 | 2.4377<br>2.4365 | 12622.<br>25732. | 0005 | 36IB28 | 36IB32 | 36IB40 | 36IB48 | 36IB56 | 36IB60 | 36IB64 | 36IB72 | |
| 2.5011<br>2.4993 | 2.6881<br>2.6869 | 25092.<br>50772. | 0.0084<br>0.0002 | 40IB16 | 40IB26 | 40IB32 | 40IB40 | 40IB48 | 40IB56 | 40IB60 | 40IB64 | 40IB72 |
| 2.7500<br>2.7482 | 2.9370<br>2.9358 | 50132.<br>75662. | | 44IB32 | 44IB36 | 44IB40 | 44IB48 | 44IB56 | 44IB60 | 44IB64 | 44IB72 | 44IB76 |
| 2.8752<br>2.8734 | 3.0623<br>3.0610 | 75022.<br>88192. | 0.0085<br>0.0002 | 46IB32 | 46IB36 | 46IB40 | 46IB48 | 46IB56 | 46IB60 | 46IB64 | 46IB72 | 46IB76 |
| 3.0000<br>2.9982 | 3.1872<br>3.1858 | 39764<br>3.0062 | 0.0086<br>0.0002 | 48IB32 | 48IB36 | 48IB48 | 48IB48 | 48IB56 | 48IB60 | 48IB64 | 48IB72 | 48IB76 |
| 3.2500<br>3.2480 | 3.4375<br>3.4358 | 3.2568<br>3.2502 | 0.0088<br>0.0002 | 52IB32 | 52IB36 | 52IB48 | 52IB48 | 52IB56 | 52IB60 | 52IB64 | 52IB72 | 52IB76 |
| 3.5000<br>3.4978 | 3.6872<br>3.6858 | 3.5068<br>3.5002 | | 56IB32 | 56IB36 | 56IB48 | 56IB48 | 56IB56 | 56IB60 | 56IB64 | 56IB72 | 56IB76 |
| 3.6250<br>3.6228 | 3.8122<br>3.8108 | 3.6318<br>3.6252 | | 58IB32 | 58IB36 | 58IB48 | 58IB48 | 58IB56 | 58IB60 | 58IB64 | 58IB72 | 58IB76 |
| 3.7500<br>3.7478 | 3.9372<br>3.9358 | 3.7568<br>3.7502 | | 60IB32 | 60IB36 | 60IB48 | 60IB48 | 60IB56 | 60IB60 | 60IB64 | 60IB72 | 60IB76 |
| 4.0000<br>3.9978 | 4.1872<br>4.1858 | 4.0068<br>4.0002 | 0.0090<br>0.0002 | 64IB32 | 64IB36 | 64IB48 | 64IB48 | 64IB56 | 64IB60 | 64IB64 | 64IB72 | 64IB76 |
| 4.2500<br>4.2478 | 4.4372<br>4.4358 | 4.2568<br>4.2502 | | 68IB32 | 68IB36 | 68IB48 | 68IB48 | 68IB56 | 68IB60 | 68IB64 | 68IB72 | 68IB76 |
| 4.3750<br>4.3728 | 4.5622<br>4.5608 | 4.3818<br>4.3752 | | 70IB32 | 70IB36 | 70IB48 | 70IB48 | 70IB56 | 70IB60 | 70IB64 | 70IB72 | 70IB76 |
| 4.5000<br>4.4978 | 4.6872<br>4.6858 | 4.5068<br>4.5002 | | 72IB32 | 72IB36 | 72IB48 | 72IB48 | 72IB56 | 72IB60 | 72IB64 | 72IB72 | 72IB76 |
| 4.7500<br>4.7578 | 4.9374<br>4.9358 | 4.7572<br>4.7502 | 0.0094<br>0.0002 | 76IB32 | 76IB36 | 76IB48 | 76IB48 | 76IB56 | 76IB60 | 76IB64 | 76IB72 | 76IB76 |
| 4.9986<br>4.9961 | 5.1860<br>5.1844 | 5.0056<br>4.9988 | | 80IB32 | 80IB36 | 80IB48 | 80IB48 | 80IB56 | 80IB60 | 80IB64 | 80IB72 | 80IB76 |
| 5.2500<br>5.2475 | 5.4374<br>5.4358 | 5.2570<br>5.2502 | | 84IB32 | 84IB36 | 84IB48 | 84IB48 | 84IB56 | 84IB60 | 84IB64 | 84IB72 | 84IB76 |
| 5.5000<br>5.4975 | 5.6874<br>5.6858 | 5.5070<br>5.5002 | | 88IB32 | 88IB36 | 88IB48 | 88IB48 | 88IB56 | 88IB60 | 88IB64 | 88IB72 | 88IB76 |
| 5.7500<br>5.7475 | 5.9374<br>5.9358 | 5.7570<br>5.7502 | 0.0095<br>0.0002 | 92IB32 | 92IB36 | 92IB40 | 92IB48 | 92IB56 | 92IB60 | 92IB64 | 92IB72 | 92IB76 |
| 6.0000<br>5.9975 | 6.1874<br>6.1858 | 6.0070<br>6.0002 | | 96IB32 | 96IB36 | 96IB40 | 96IB48 | 96IB56 | 96IB60 | 96IB64 | 96IB72 | 96IB76 |
| 6.2500<br>6.2475 | 6.4374<br>6.4358 | 6.2570<br>6.2502 | | 100IB32 | 100IB36 | 100IB40 | 100IB48 | 100IB56 | 100IB60 | 100IB64 | 100IB72 | 100IB76 |
| 6.5000<br>6.4975 | 6.6874<br>6.6858 | 6.5070<br>6.5002 | | 104IB32 | 104IB36 | 104IB40 | 104IB48 | 104IB56 | 104IB60 | 104IB64 | 104IB72 | 104IB76 |
| 6.7500<br>6.7475 | 6.9374<br>6.9358 | 6.7570<br>6.7502 | | 108IB32 | 108IB36 | 108IB40 | 108IB48 | 108IB56 | 108IB60 | 108IB64 | 108IB72 | 108IB76 |
| 6.9954<br>9.9929 | 7.1830<br>7.1812 | 7.0026<br>6.9956 | 0.0097<br>0.0002 | 112IB32 | 112IB36 | 112IB40 | 112IB48 | 112IB56 | 112IB60 | 112IB64 | 112IB72 | 112IB76 |



# SF-1/1W/1B/1D/1T/1P/1S/1SS 标准英制翻边轴套
## Inch Standard Flange Bushing

## SF-1/1W/1B/1D/1T/1P/1S/1SS





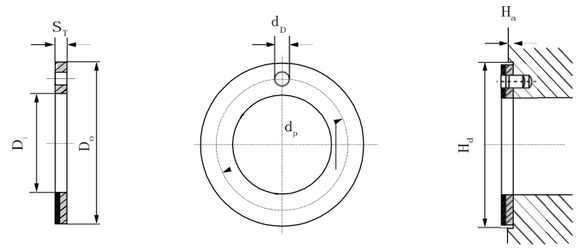

※标准英制翻边套标注方式：Standard Inch Flange Bushing Label Mode SF-1□F 06040

单位unit: inch

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 0.3750<br>0.3740 | 0.4691<br>0.4684 | 0.3779<br>0.3752 | 0.0039<br>0.0002 | 0.7075<br>0.6675 | 0.052<br>0.044 | 06FIB04 | 06FIB06 | 06FIB08 | 06FIB12 |
| 0.5000<br>0.4990 | 0.5941<br>0.5934 | 0.5029<br>0.5002 | 0.0039<br>0.0002 | 0.8325<br>0.7925 | 0.052<br>0.044 | 08FIB04 | 08FIB06 | 08FIB08 | 08FIB12 |
| 0.6250<br>0.6240 | 0.7192<br>0.7184 | 0.6280<br>0.6252 | 0.0040<br>0.0002 | 0.9575<br>0.9175 | 0.052<br>0.044 | 10FIB06 | 10FIB08 | 10FIB10 | 10FIB12 |
| 0.7500<br>0.7488 | 0.8755<br>0.8747 | 0.7534<br>0.7502 | 0.0046<br>0.0002 | 1.1450<br>1.1050 | 0.068<br>0.060 | 12FIB06 | 12FIB08 | 12FIB12 | 12FIB16 |
| 0.8750<br>0.8738 | 1.0005<br>0.9997 | 0.8787<br>0.8752 | 0.0046<br>0.0002 | 1.2200<br>1.1800 | 0.068<br>0.060 | 14FIB08 | 14FIB12 | 14FIB16 | 14FIB20 |
| 1.0000<br>0.9988 | 1.1255<br>1.1247 | 1.0034<br>1.0002 | 0.0046<br>0.0002 | 1.3950<br>1.3550 | 0.068<br>0.060 | 16FIB08 | 16FIB12 | 16FIB16 | 16FIB20 |
| 1.2500<br>1.2484 | 1.4068<br>1.4058 | 1.2540<br>1.2502 | 0.0056<br>0.0002 | 1.7700<br>1.7300 | 0.083<br>0.075 | 20FIB16 | 20FIB20 | 20FIB24 | |
| 1.5000<br>1.4984 | 1.6568<br>1.6558 | 1.5040<br>1.2002 | 0.0056<br>0.0002 | 2.0200<br>1.9800 | 0.083<br>0.075 | 24FIB16 | 24FIB24 | 24FIB32 | |
| 1.7500<br>1.7484 | 1.9381<br>1.9371 | 1.7548<br>1.7502 | 0.0064<br>0.0002 | 2.3950<br>2.3550 | 0.098<br>0.090 | 28FIB16 | 28FIB24 | 28FIB32 | |

# SF-1WC 英制标准垫片
## inch Standard Washer






※标准英制垫片标注方式：Standard Inch Washer Label Mode SF-1□W DU06

单位unit: inch

| | | | | | | |
|---|---|---|---|---|---|---|
| SF-1 WC06IB | 0.500 | 0.875 | 0.0630<br>0.0610 | 0.692 | 0.067 | 0.04 | 0.875 |
| SF-1 WC07IB | 0.562 | 1.000 | | 0.786 | | | 1.000 |
| SF-1 WC08IB | 0.625 | 1.125 | | 0.880 | 0.099 | | 1.125 |
| SF-1 WC09IB | 0.687 | 1.187 | | 0.942 | | | 1.187 |
| SF-1 WC10IB | 0.750 | 1.250 | | 1.005 | | | 1.250 |
| SF-1 WC11IB | 0.812 | 1.375 | | 1.009 | | | 1.375 |
| SF-1 WC12IB | 0.875 | 1.500 | | 1.192 | 0.130 | | 1.500 |
| SF-1 WC13IB | 0.937 | 1.625 | | 1.286 | | | 1.625 |
| SF-1 WC14IB | 1.000 | 1.750 | | 1.380 | | | 1.750 |
| SF-1 WC16IB | 1.125 | 2.000 | | 1.567 | 0.161 | | 2.000 |
| SF-1 WC18IB | 1.250 | 2.125 | | 1.692 | | | 2.125 |
| SF-1 WC20IB | 1.375 | 2.250 | | 1.817 | | | 2.250 |
| SF-1 WC22IB | 1.500 | 2.500 | | 2.005 | 0.192 | | 2.500 |
| SF-1 WC24IB | 1.625 | 2.625 | | 2.130 | | 0.07 | 2.625 |
| SF-1 WC26IB | 1.750 | 2.750 | | 2.255 | | | 2.750 |
| SF-1 WC28IB | 2.000 | 3.000 | 0.0930<br>0.0910 | 2.505 | | | 3.000 |
| SF-1 WC30IB | 2.125 | 3.125 | | 2.630 | | | 3.125 |
| SF-1 WC32IB | 2.250 | 3.250 | | 2.755 | | | 3.250 |

## Oilles Self-lubricating Bearing

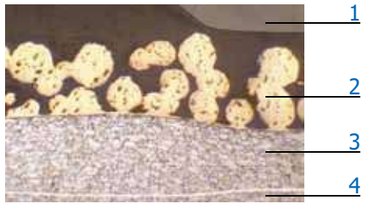


### SF-2 碳钢基边界无铅自润滑轴承
### Marginal Pb-free self-lubricating bearing

该产品以优质低碳钢为基体，中间烧结球形青铜层，表面轧制改性聚甲醛。在边界润滑条件下可长期使用而不加油，耐磨层表面有储油坑。产品广泛应用于冶金机械、矿山机械、水利机械、汽机车、建筑机械、农用机械、轧钢行业等。

SF-2 Marginal Pb-free self-lubricating bearing is used steel-backing as its structure, sintered porous bronze as its interlayer, surface inlaid the modified POM. Suitable for marginally lubricated and dry operation on the conditions of lubrication indents grease. It has been widely applied to metallurgical machinery, Mine machinery, water conservancy machinery, vapor locomotive, building machinery, agriculture machinery, steel rolling industry etc.

※技术参数：Technical Data




1. 聚甲醛与纤维混合物　2. 球形青铜粉
3. 钢背　4. 电镀层
1. POM with fiber　2. Porous bronze
3. Steel backing　4. Tin-plating

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 250N/mm$^2$ |
| | 动载 Dynamic load | 140N/mm$^2$ |
| 最高线速度 V<br>Max Sliding Speed | 脂润滑<br>Grease lubrication | 2.5m/s |
| 最高PV值<br>Max PV Value Limit | 脂润滑<br>Grease lubrication | 2.8N/mm$^2$ • m/s |
| 摩擦系数 μ<br>Friction coefficient | 脂润滑<br>Grease lubrication | 0.05～0.25 |
| 使用温度 Working temperature | | -40℃～+130℃ |
| 导热系数 Thermal conductivity | | 4W/m • K |
| 热膨胀系数 Coefficient of thermal expansion | | 11×10$^{-6}$/K |



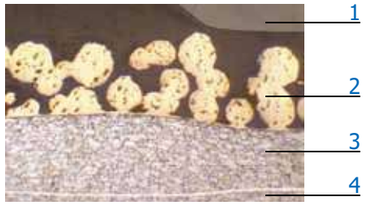
### SF-2Y 碳钢基边界无铅自润滑轴承
### Marginal Pb-free self-lubricating bearing



该产品与SF-2具有相同结构和使用性能，在边界润滑条件下可长期使用而不加油，耐磨层表面有储油坑。产品广泛应用于冶金机械、矿山机械、水利机械、汽机车、建筑机械、农用机械、轧钢行业等。

SF-2Y has the same structure and functional performance with SF-2. It can work long time without oil in the condition of prelubricated with lubrication indents.Widely applied to metallurgy machinery, Mining machinery, water conservancy machinery, automobile, building machinery, agriculture machinery, rolling steel industry etc.

※技术参数：Technical Data




1. 聚甲醛与纤维混合物　2. 球形青铜粉
3. 钢背　4. 电镀层
1. POM with fiber　2. Porous bronze
3. Steel backing　4. Tin-plating

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 250N/mm$^2$ |
| | 动载 Dynamic load | 140N/mm$^2$ |
| 最高线速度 V<br>Max Sliding Speed | 脂润滑<br>Grease lubrication | 2.5m/s |
| 最高PV值<br>Max PV Value Limit | 脂润滑<br>Grease lubrication | 2.8N/mm$^2$ • m/s |
| 摩擦系数 μ<br>Friction coefficient | 脂润滑<br>Grease lubrication | 0.05～0.25 |
| 使用温度 Working temperature | | -40℃～+130℃ |
| 导热系数 Thermal conductivity | | 4W/m • K |
| 热膨胀系数 Coefficient of thermal expansion | | 11×10$^{-6}$/K |



## Oilles Self-lubricating Bearing

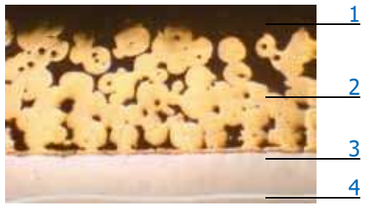


### SF-2S 碳钢基边界无铅自润滑轴承
### Marginal Pb-free self-lubricating bearing

该产品以优质低碳钢为基体，中间烧结球形青铜层，表面轧制以缩醛树脂/亲油　性纤维的特殊树脂。具有摩擦系数低、耐磨性能好、无油条件下润滑的特点。产品广泛应用于卷场机、推土机、印染机、采煤机、冲床、吊车/行车高空作业　等领域。

SF-2S Marginal Pb-free self-lubricating bearing based on steel-backing, sintered porous bronze as its interlayer, surface rolled by acetal resin and polymer material containing oleophylicity fiber and perform well on low friction factor, well wear performance and oil free condition lubrication. It has been widely applied to winding engines, printing and dyeing machinery, coal-cutters, punch, winch truck, traveling crane etc.

※技术参数：Technical Data




1. 聚四氟乙烯与铅及其他填充混合物
2. 球形青铜粉　3. 钢背　4. 电镀层
1. PTFE with lead　2. Porous bronze
3. Steel backing　4. Tin-plating

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 250N/mm$^2$ |
| | 动载 Dynamic load | 110N/mm$^2$ |
| 最高线速度 V<br>Max Sliding Speed | 脂润滑<br>Grease lubrication | 2.5m/s |
| 最高PV值<br>Max PV Value Limit | 脂润滑<br>Grease lubrication | 3.2N/mm$^2$ • m/s |
| 摩擦系数 μ<br>Friction coefficient | 脂润滑<br>Grease lubrication | 0.03～0.20 |
| 使用温度 Working temperature | | -60℃～+130℃ |
| 导热系数 Thermal conductivity | | 4W/m • K |
| 热膨胀系数 Coefficient of thermal expansion | | 11×10$^{-6}$/K |

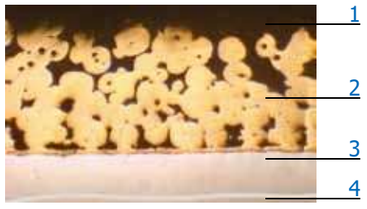
### SF-2N 碳钢基边界无铅自润滑轴承
### Marginal Pb-free self-lubricating bearing



该产品以优质低碳钢为基体，中间烧结球形青铜层，表面轧制以缩醛树脂/亲油　性纤维的特殊树脂。具有摩擦系数低、耐磨性能好、无油条件下润滑的特点。产品广泛应用于卷场机、推土机、印染机、采煤机、冲床、吊车/行车高空作业　等领域。

SF-2N has the same structure and functional performance with SF-20. Suitable for marginal lubrication and dry operation conditions. It has been widely applied to metallurgy machinery, Mining machinery, water conservancy machinery, automobile, building machinery, agriculture equipment, rolling steel industry etc.

※技术参数：Technical Data




1. 聚四氟乙烯与铜的混合物　2. 球形青铜粉
3. 刚背　4. 电镀层
1. PTFE with CU　2. Porous bronze
3. Steel backing　4. Tin-plating

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 250N/mm$^2$ |
| | 动载 Dynamic load | 140N/mm$^2$ |
| 最高线速度 V<br>Max Sliding Speed | 脂润滑<br>Grease lubrication | 2.5m/s |
| 最高PV值<br>Max PV Value Limit | 脂润滑<br>Grease lubrication | 2.8N/mm$^2$ • m/s |
| 摩擦系数 μ<br>Friction coefficient | 脂润滑<br>Grease lubrication | 0.05～0.25 |
| 使用温度 Working temperature | | -40℃～+130℃ |
| 导热系数 Thermal conductivity | | 4W/m • K |
| 热膨胀系数 Coefficient of thermal expansion | | 11×10$^{-6}$/K |

## SF-2/2Y/2S/SN

轴套外径公差表
Bushing O.D. Tolerances Table

| | |
|---|---|
| ΦD≤10 | +0.055<br>+0.025 |
| 10＜ΦD≤18 | +0.065<br>+0.030 |
| 18＜ΦD≤30 | +0.075<br>+0.035 |
| 30＜ΦD≤50 | +0.085<br>+0.045 |
| 50＜ΦD≤80 | +0.100<br>+0.055 |
| 80＜ΦD≤120 | +0.120<br>+0.070 |
| 120＜ΦD≤180 | +0.170<br>+0.100 |
| 180＜ΦD≤250 | +0.210<br>+0.130 |
| 250＜ΦD≤305 | +0.260<br>+0.170 |

轴套壁厚公差
Bushing Wall Thickness Tolerances Table

| | |
|---|---|
| 8≤Φd≤18 | $1.0^{-0.020}_{-0.045}$ |
| 18＜Φd≤25 | $1.5^{-0.025}_{-0.055}$ |
| 25＜Φd＜45 | $2.0^{-0.030}_{-0.065}$ |
| 45≤Φd＜80 | $2.5^{-0.040}_{-0.085}$ |
| Φd≥80 | $2.5^{-0.055}_{-0.115}$ |

可供标准产品的标注方式
Standard Bushing Label Mode

■ 直套标注方式 Bushing Label Mode

SF-2□ ×× ××
直套型号 Bushing Type
直套内径 Bushing Inner Diameter
直套高度 Bushing Length

■ 板材标注方式 Strip Label Mode

SF-2□P ××× ×××
板材型号 Strip Type
板材厚度 Strip Wall Thickness
板材宽度 Strip Width

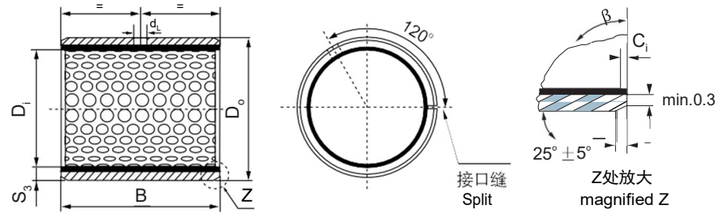
■ 垫片标注方式 Washer Label Mode

SF-2□W ××
垫片型号 Washer Type
垫片规格 Washer Specification

SF-2/2Y/2S/SN 标准公制轴套
Metric Standard bearings
欧必帝轴承
OBD SELF-LUBRICATINGBEARING

## SF-2/2Y/2S/SN






内外倒角

| $S_3$ | $C_o$ | $C_i$ | β |
|---|---|---|---|
| 1.0 | 0.6±0.3 | 0.30±0.2 | 30°±5° |
| 1.5 | 0.7±0.3 | 0.50±0.2 | 30°±5° |

| $S_3$ | $C_o$ | $C_i$ | β |
|---|---|---|---|
| 2.00 | 1.2±0.4 | 0.50±0.3 | 30°±5° |
| 2.50 | 1.8±0.6 | 0.60±0.3 | 45°±5° |

※标准直套标注方式：Standard Bushing Label Mode SF-2□ 1010

单位unit:mm

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF-2□ | 10 -0.022 | 12 +0.018 | 12 +0.065 +0.030 | 10.108<br>10.040 | 0.130<br>0.040 | | | 1010 | 1015 | 1020 | | | | | | | | |
| SF-2□ | 12 -0.027 | 14 +0.018 | 14 +0.065 +0.030 | 12.108<br>12.040 | | | | 1210 | 1215 | 1220 | | | | | | | | |
| SF-2□ | 14 -0.027 | 16 +0.018 | 16 +0.065 +0.030 | 14.108<br>14.040 | 0.135<br>0.040 | 0.980<br>0.955 | | | 1415 | 1420 | | | | | | | | |
| SF-2□ | 15 -0.027 | 17 +0.018 | 17 +0.065 +0.030 | 15.108<br>15.040 | | | | | 1515 | 1520 | 1525 | | | | | | | |
| SF-2□ | 16 -0.027 | 18 +0.018 | 18 +0.065 +0.030 | 16.108<br>16.040 | | | 4 | | 1615 | 1620 | 1625 | | | | | | | |
| SF-2□ | 18 -0.027 | 20 +0.021 | 20 +0.075 +0.035 | 18.111<br>18.040 | 0.138<br>0.040 | | | | 1815 | 1820 | 1825 | | | | | | | |
| SF-2□ | 20 -0.033 | 23 +0.021 | 23 +0.075 +0.035 | 20.131<br>20.050 | 0.164<br>0.050 | 1.475<br>1.445 | | | 2015 | 2020 | 2025 | 2030 | | | | | | |
| SF-2□ | 22 -0.033 | 25 +0.021 | 25 +0.075 +0.035 | 22.131<br>22.050 | | | | | 2215 | | 2225 | | | | | | | |
| SF-2□ | 25 -0.033 | 28 +0.021 | 28 +0.075 +0.035 | 25.131<br>25.050 | | | 6 | | 2515 | 2520 | 2525 | 2530 | | | | | | |
| SF-2□ | 28 -0.033 | 32 +0.025 | 32 +0.085 +0.045 | 28.155<br>28.060 | 0.188<br>0.060 | 1.970<br>1.935 | | | | 2820 | | 2830 | | | | | | |
| SF-2□ | 30 -0.033 | 34 +0.025 | 34 +0.085 +0.045 | 30.155<br>30.060 | | | | | | 3020 | 3025 | 3030 | | 3040 | | | | |
| SF-2□ | 35 -0.039 | 39 +0.025 | 39 +0.085 +0.045 | 35.155<br>35.060 | 0.194<br>0.060 | | | | | 3520 | | 3530 | 3535 | 3540 | | | | |
| SF-2□ | 40 -0.039 | 44 +0.025 | 44 +0.085 +0.045 | 40.155<br>40.060 | | | 8 | | | 4020 | | 4030 | | 4040 | | 4050 | | |
| SF-2□ | 45 -0.039 | 50 +0.025 | 50 +0.085 +0.045 | 45.195<br>45.080 | 0.234<br>0.080 | 2.460<br>2.415 | | | | 4520 | | 4530 | | 4540 | 4545 | 4550 | | |
| SF-2□ | 50 -0.039 | 55 +0.030 | 55 +0.100 +0.055 | 50.200<br>50.080 | 0.239<br>0.080 | | | | | | | 5030 | | 5040 | | 5050 | 5060 | |
| SF-2□ | 55 -0.046 | 60 +0.030 | 60 +0.100 +0.055 | 55.200<br>55.080 | 0.246<br>0.080 | | | | | | | 5530 | | 5540 | | 5550 | 5560 | |
| SF-2□ | 60 -0.046 | 65 +0.030 | 65 +0.100 +0.055 | 60.200<br>60.080 | | | | | | | | 6030 | | 6040 | | 6050 | 6060 | |

## SF-2/2Y/2S/SN

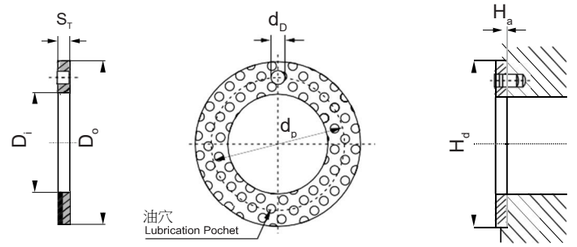
单位unit:mm

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SF-2□ | 65 -0.046 | 70 +0.030 | 70 +0.100 +0.055 | 65.200 65.080 | 0.246 0.080 | 2.460 2.415 | 8 | 6540 | | 6560 | | | | | | |
| SF-2□ | 70 -0.046 | 75 +0.030 | 75 +0.100 +0.055 | 70.200 70.080 | | | | 7040 | 7050 | | 7080 | | | | | |
| SF-2□ | 75 -0.046 | 80 +0.030 | 80 +0.100 +0.055 | 75.200 75.080 | | | | 7540 | | 7560 | 7580 | | | | | |
| SF-2□ | 80 -0.046 | 85 +0.035 | 85 +0.120 +0.070 | 80.265 80.100 | 0.313 0.100 | 2.450 2.385 | 9.5 | 8040 | | 8060 | 8080 | | | | | |
| SF-2□ | 85 -0.054 | 90 +0.035 | 90 +0.120 +0.070 | 85.265 85.100 | 0.321 0.100 | | | 8540 | | 8560 | 8580 | | | | | |
| SF-2□ | 90 -0.054 | 95 +0.035 | 95 +0.120 +0.070 | 90.265 90.100 | | | | 9040 | | 9060 | 9080 | 9090 | | | | |
| SF-2□ | 100 -0.054 | 105 +0.035 | 105 +0.120 +0.070 | 100.265 100.100 | | | | | 10050 | | 10080 | | 10095 | | | |
| SF-2□ | 105 -0.054 | 110 +0.035 | 110 +0.120 +0.070 | 105.265 105.100 | | | | | | 10560 | 10580 | | 10595 | | 105110 | |
| SF-2□ | 110 -0.054 | 115 +0.035 | 115 +0.120 +0.070 | 110.265 110.110 | | | | | | 11060 | 11080 | | 11095 | | 110110 | |
| SF-2□ | 120 -0.054 | 125 +0.040 | 125 +0.170 +0.100 | 120.270 120.110 | 0.324 0.100 | | | | | 12060 | 12080 | | | | 120110 | |
| SF-2□ | 125 -0.063 | 130 +0.040 | 130 +0.170 +0.100 | 125.270 125.110 | | | | | | 12560 | | | | | 125110 | |
| SF-2□ | 130 -0.063 | 135 +0.040 | 135 +0.170 +0.100 | 130.270 130.110 | | | | | 13050 | 13060 | 13080 | | | 130100 | | |
| SF-2□ | 140 -0.063 | 145 +0.040 | 145 +0.170 +0.100 | 140.270 140.110 | | | | | 14050 | 14060 | 14080 | | | 140100 | | |
| SF-2□ | 150 -0.063 | 155 +0.040 | 155 +0.170 +0.100 | 150.270 150.110 | | | | | 15050 | 15060 | 15080 | | | 150100 | | |
| SF-2□ | 160 -0.063 | 165 +0.040 | 165 +0.170 +0.100 | 160.270 160.110 | | | 9.5 | | 16050 | 16060 | 16080 | | | 160100 | | |
| SF-2□ | 170 -0.063 | 175 +0.040 | 175 +0.170 +0.100 | 170.270 170.110 | | | | | 17050 | | 17080 | | | 170100 | | |
| SF-2□ | 180 -0.063 | 185 +0.046 | 185 +0.210 +0.130 | 180.270 180.110 | 0.339 0.110 | | | | 18050 | 18060 | 18080 | | | 180100 | | |
| SF-2□ | 190 -0.072 | 195 +0.046 | 195 +0.210 +0.130 | 190.276 190.110 | | | | | 19050 | 19060 | 19080 | | | 190100 | | 190120 |
| SF-2□ | 200 -0.072 | 205 +0.046 | 205 +0.210 +0.130 | 200.276 200.110 | | | | | 20050 | 20060 | 20080 | | | 200100 | | 200120 |
| SF-2□ | 220 -0.072 | 225 +0.046 | 225 +0.210 +0.130 | 220.276 220.110 | | | 9.5 | | 22050 | 22060 | 22080 | | | 220100 | | 220120 |
| SF-2□ | 240 -0.072 | 245 +0.046 | 245 +0.210 +0.130 | 240.276 240.110 | | | | | 24050 | 24060 | 24080 | | | 240100 | | 240120 |
| SF-2□ | 250 -0.072 | 255 +0.052 | 255 +0.260 +0.170 | 250.282 250.110 | 0.354 0.110 | | | | 25050 | 25060 | 25080 | | | 250100 | | 250120 |
| SF-2□ | 260 -0.081 | 265 +0.052 | 265 +0.260 +0.170 | 260.282 260.110 | | | | | 26050 | 26060 | 26080 | | | 260100 | | 260120 |
| SF-2□ | 280 -0.081 | 285 +0.052 | 285 +0.260 +0.170 | 280.282 280.110 | | | | | 28050 | 28060 | 28080 | | | 280100 | | 280120 |
| SF-2□ | 300 -0.081 | 305 +0.052 | 305 +0.260 +0.170 | 300.282 300.110 | | | | | 30050 | 30060 | 30080 | | | 300100 | | 300120 |



## SF-2/2Y/2S/SN





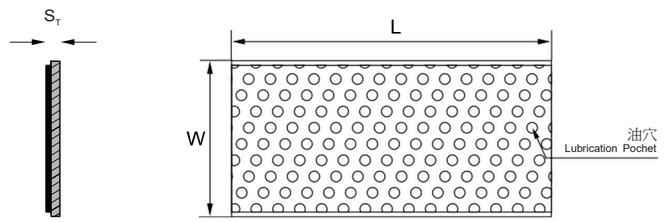

※标准垫片标注方式：Standard Washer Label Mode SF-2□W10

单位unit:mm

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 8 | SF-2□ W10 | 10 | 20 | 1.5 | 15 | 1.5 | 1 | 20 |
| 10 | SF-2□ W12 | 12 | 24 | | 18 | | | 24 |
| 12 | SF-2□ W14 | 14 | 26 | | 20 | 2 | | 26 |
| 14 | SF-2□ W16 | 16 | 30 | | 23 | | | 30 |
| 16 | SF-2□ W18 | 18 | 32 | | 25 | | | 32 |
| 18 | SF-2□ W20 | 20 | 36 | | 28 | 3 | | 36 |
| 20 | SF-2□ W22 | 22 | 38 | | 30 | | | 38 |
| 22 | SF-2□ W24 | 24 | 42 | | 33 | | | 42 |
| 24 | SF-2□ W26 | 26 | 44 | | 35 | | | 44 |
| 26 | SF-2□ W28 | 28 | 48 | | 38 | 4 | | 48 |
| 30 | SF-2□ W32 | 32 | 54 | | 43 | | | 54 |
| 36 | SF-2□ W38 | 38 | 62 | | 50 | | | 62 |
| 40 | SF-2□ W42 | 42 | 66 | | 54 | | | 66 |
| 46 | SF-2□ W48 | 48 | 74 | 2 | 61 | | 1.5 | 74 |
| 50 | SF-2□ W52 | 52 | 78 | | 65 | | | 78 |
| 60 | SF-2□ W62 | 62 | 90 | | 76 | | | 90 |

## SF-2/2Y 标准公制板材
## Metric Standard Strip






※标准滑板标注方式：Standard Strip Label Mode SF-2□P 010130

单位unit:mm

| | | | |
|---|---|---|---|
| SF-2□P 010130 | 500 | 150 | 1.0 |
| SF-2□P 015130 | 500 | 150 | 1.5 |
| SF-2□P 020130 | 500 | 150 | 2.0 |
| SF-2□P 025130 | 500 | 150 | 2.5 |

# JF-800/720/700/20/930



该产品以优质低碳钢为基体，表面烧结青铜粉，适用于高载低速下的旋转，摇摆运动。具有摩擦系数低、耐磨性能好、使用寿命长、抗咬合性能好等特点，铜合金层可根据要求加工出各种类型的油穴、油槽。产品被广泛应用于矿山机械、汽机车、建筑机械、农用机械、轧钢机械等。

JF-800/720/700/20/930 Bimetallic self-lubricating bearing used high quality low-carbon steel plate as base, sintered porous bronze as its surface, suitable for rotatory oscillating, reciprocating movements on the conditions of high load.low speed, low friction, well wear resistance, long lifetime and better prevent from holding-on.The bronze layer surface can be machined with various of grooves, oil pockets in terms of different work condition. The product is widely used in mining machinery, automobile, building machinery, agriculture equipment, rolling steel industry etc.

※材料特性：Material Characterisitc

| | | | |
|---|---|---|---|
| JF-800 | CuPb10Sn10 | 70～100HB | 美国SAE-797/德国GLYCO 66/日本JIS-LBC3 |
| JF-720 | CuPb24Sn4 | 45～70HB | 美国SAE-797/德国GLYCO 68/日本JIS-LBC6 |
| JF-700 | CuPb30 | 40～60HB | 美国SAE-48/日本JIS-KJ3 |
| JF-20 | A1Sn20Cu | 30～45HB | 美国SAE-783/德国GLYCO 74/日本JIS-AJL |
| JF-930 | CuPb6.5P0.1 | 69～90HB | |

※技术参数：Technical Data

| | | | | | | |
|---|---|---|---|---|---|---|
| 最大承载 P($N/mm^2$) Max LoadCapacity | | 150 | 130 | 120 | 100 | 150 |
| 拉伸强度（$N/mm^2$） Tensile Strength | | 185 | 150 | 200 | 200 | 185 |
| 最大线速度（油润滑）V(m/s) MaxSlidingSpeed(OilLubrication) | | 5 | 10 | 10 | 25 | 5 |
| 摩擦系数 μ Friction coefficient | | 0.06～0.14 | 0.06～0.16 | 0.08～0.16 | 0.08～0.17 | 0.06～0.16 |
| 最高PV值 $N/mm^2 \cdot m/s$ Max PV Value Limit | 脂润滑 Grease lubrication | 2.8 | 2.8 | 2.5 | — | 2.8 |
| | 油润滑 Oil lubrication | 20 | 10 | 8 | 6 | — |

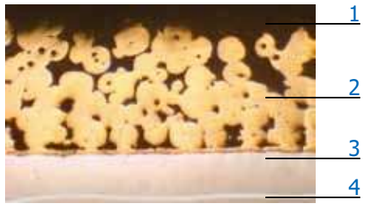
JF-800/720/700/20/930 双金属自润滑轴承 欧必帝轴承
Bimetallic self-lubricating bearing OBD SELF-LUBRICATINGBEARING

# JF-800/720/700/20/930

※应用特性：Application Characteristics

| | | |
|---|---|---|
| JF-800 | 很高的耐疲劳强度和承载能力，抗冲击能力强，耐磨性、耐腐蚀性好<br>Very good resistance to fatigue strenth, with high shock resistance and good corrosion resisitance. | 中速、高冲击载荷的衬套，内燃机连杆活塞销衬套<br>Fit for middle load, high speed, bushes, washer and connecting rod bearing in internal combustion engine used in machinical equipment and high shock bushing. |
| JF-720 | 较高的耐疲劳强度和承载能力、较好的滑动性能，易受润滑油腐蚀<br>Good resistance to fatigue strength and high load capacity, good performance of sliding, liable to be corrupted by lubricationg oil. | 中载中速、高速内燃机主轴套和连杆轴套<br>middle load middle speed, principle axis of internal combustion engine. |
| JF-700 | 较高的耐疲劳强度、承载能力、抗冲击能力<br>Good resistance to fatigue strength, load capacity, shock resistance and corrosion. | 用于内燃机主轴和连杆轴承、止推垫片<br>Principle axis of internal combustion engine, connecting rod bushing. |
| JF-20 | 良好的抗咬性、异物埋没性，工作表面镀软合金层<br>Good performance of anti-seizing, covering eyewinker, soft alloy be plated on working surface. | 高速中低载荷的内燃机主轴套，连杆轴套<br>High speed, middle or low load, principle axis internal combustion engine |
| JF-930 | 中等的耐疲劳强度和承载能力，良好的抗腐蚀性能，较好轴承滑动性能。<br>Moderate fatigue strength, and load capacity, good performance of bearing sliding. | 高速低载的内燃机轴瓦、气压机、制冷机轴套<br>High speed, low load, internal combustion engine half bearing, bushing used in compressing and refrigerating machine. |






1. 聚四氟乙烯与纤维混合物　2. 球形青铜粉
3. 钢背　4. 电镀层
1. PTFE with fibre　2. Porous bronze
3. Steel backing　4. Tin-plating

## FB08G 双金属固体自润滑轴承
## Bimetallic solid self-lubricating bearing

该产品以优质低碳钢为基体，表面烧结青铜粉，适用于高载低速下的旋转，摇摆运动。具有摩擦系数低、耐磨性能好、使用寿命长、抗咬合性能好等特点，铜合金层可根据要求加工出各种类型的油穴、油槽。产品被广泛应用于矿山机械、汽机车、建筑机械、农用机械、轧钢机械等。

FB08G Bimetallic solid self-lubricating bearing based on high quality low-carbon steel backing, sintered porous bronze as its surface. Surface of alloy is rolled the spirally diamond type of the oil pockets, embedded lead and molybdenum disulfide, the lubrication area of the bearing surface is being about 25%. Performed well by low friction coefficient, good lubricating action and wear resistant action. Particularly suit for starting motor for automobiles, generators, hoisting machines and metallurgical machinery.

※技术参数：Technical Data

| | | |
|---|---|---|
| 最大承载 P Max Load Capacity | 干摩擦 Dry friction | 70N/$mm^2$ |
| | 油润滑 Oil lubrication | 90N/$mm^2$ |
| 最高线速度 V Max Sliding Speed | 干摩擦 Dry friction | 0.4m/s |
| | 油润滑 Oil lubrication | 2.0m/s |
| 最高PV值 Max PV Value Limit | 干摩擦 Dry friction | 2.6N/$mm^2 \cdot$ m/s |
| | 油润滑 Oil lubrication | 15N/$mm^2 \cdot$ m/s |
| 摩擦系数 μ Friction coefficient | 干摩擦 Dry friction | ＜0.22 |
| | 油润滑 Oil lubrication | ＜0.08 |
| 使用温度 Working temperature | 干摩擦 Dry friction | 250℃ |
| | 油润滑 Oil lubrication | 200℃ |
| 导热系数 Thermal conductivity | | 76W/m·K |
| 热膨胀系数 Coefficient of thermal expansion | | $22\times10^{-6}$/K |

# JF-800/720/700/20/930

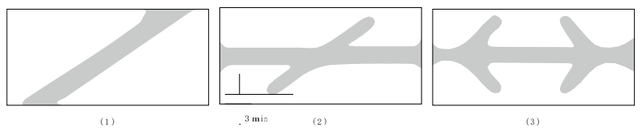
轴套外径公差表
Bushing O.D. Tolerances Table

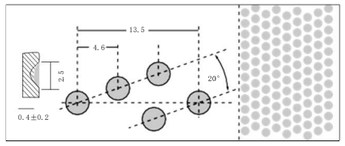
| | |
|---|---|
| ΦD≤10 | +0.055<br>+0.025 |
| 10＜ΦD≤18 | +0.065<br>+0.030 |
| 18＜ΦD≤30 | +0.075<br>+0.035 |
| 30＜ΦD≤50 | +0.085<br>+0.045 |
| 50＜ΦD≤80 | +0.100<br>+0.055 |
| 80＜ΦD≤120 | +0.120<br>+0.070 |
| 120＜ΦD≤180 | +0.170<br>+0.100 |

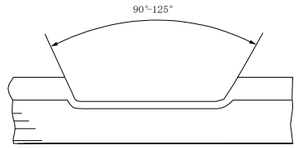
轴套壁厚公差
Bushing Wall Thickness Tolerances Table

| | |
|---|---|
| 8＜Φd≤18 | $1.0\ ^{0}_{-0.030}$ |
| 18＜Φd≤25 | $1.5\ ^{0}_{-0.030}$ |
| 25＜Φd＜45 | $2.0\ ^{0}_{-0.035}$ |
| 45≤Φd≤150 | $2.5\ ^{0}_{-0.050}$ |

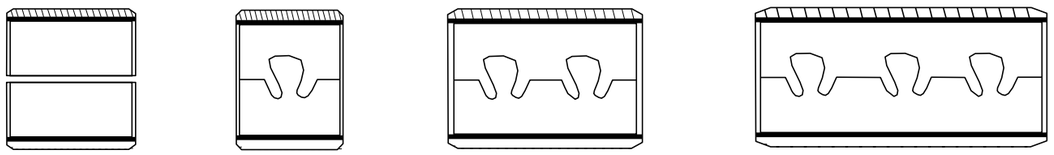
双金属自润滑轴承的油槽油穴形式
**Type for Bi-Metaltic Bushing Grooves and Indents**



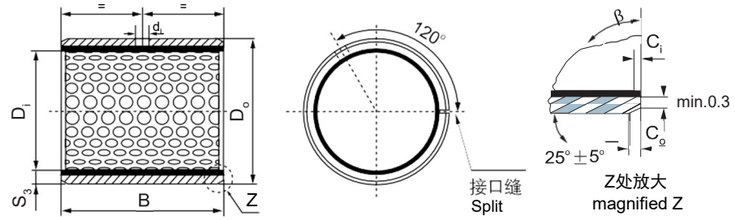

双金属自润滑轴承的搭扣形式
**Lock Types for Bi-Metaltic Bushing**






# JF-800/720/700/20/930






内外倒角

| $S_3$ | $C_o$ | $C_i$ | β |
|---|---|---|---|
| 0.75 | 0.5±0.3 | 0.25±0.2 | 35°±5° |
| 1.00 | 0.6±0.3 | 0.30±0.2 | 35°±5° |
| 1.50 | 0.7±0.3 | 0.50±0.3 | 35°±5° |

| $S_3$ | $C_o$ | $C_i$ | β |
|---|---|---|---|
| 2.00 | 1.2±0.4 | 0.50±0.3 | 30°±5° |
| 2.50 | 1.8±0.6 | 0.60±0.3 | 45°±5° |
| | | | |

※标准直套标注方式：Standard Bushing Label Mode JF-800□ 1010

单位unit:mm

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JF-800 □ | 10 | 12 | $10\ ^{}_{-0.022}$ | $12\ ^{+0.018}$ | | 0.170<br>0.010 | | | 1010 | 1015 | 1020 | | | | |
| JF-800 □ | 12 | 14 | $12\ ^{}_{-0.027}$ | $14\ ^{+0.018}$ | | | | | 1210 | 1215 | 1220 | | | | |
| JF-800 □ | 14 | 16 | $14\ ^{}_{-0.027}$ | $16\ ^{+0.018}$ | +0.148<br>+0.010 | 0.175<br>0.010 | 0.995<br>0.935 | | 1410 | 1415 | 1420 | | | | |
| JF-800 □ | 15 | 17 | $15\ ^{}_{-0.027}$ | $17\ ^{+0.018}$ | | | | 4 | 1510 | 1515 | 1520 | | | | |
| JF-800 □ | 16 | 18 | $16\ ^{}_{-0.027}$ | $18\ ^{+0.018}$ | | | | | 1610 | 1615 | 1620 | | | | |
| JF-800 □ | 18 | 20 | $18\ ^{}_{-0.027}$ | $20\ ^{+0.021}$ | +0.151+<br>0.010 | 0.178<br>0.010 | | | 1810 | 1815 | 1820 | 1825 | | | |
| JF-800 □ | 20 | 23 | $20\ ^{}_{-0.033}$ | $23\ ^{+0.021}$ | | | | | 2010 | 2015 | 2020 | 2025 | | | |
| JF-800 □ | 22 | 25 | $22\ ^{}_{-0.033}$ | $25\ ^{+0.021}$ | +0.161<br>+0.020 | 0.194<br>0.020 | 1.490<br>1.430 | | 2210 | 2215 | 2220 | 2225 | | | |
| JF-800 □ | 24 | 27 | $24\ ^{}_{-0.033}$ | $27\ ^{+0.021}$ | | | | | 2410 | 2415 | 2420 | 2425 | 2430 | | |
| JF-800 □ | 25 | 28 | $25\ ^{}_{-0.033}$ | $28\ ^{+0.021}$ | | | | | | 2515 | 2520 | 2525 | 2530 | | |
| JF-800 □ | 26 | 30 | $26\ ^{}_{-0.033}$ | $30\ ^{+0.021}$ | +0.181<br>+0.040 | 0.214<br>0.040 | | | | 2615 | 2620 | 2625 | 2630 | | |
| JF-800 □ | 28 | 32 | $28\ ^{}_{-0.033}$ | $32\ ^{+0.025}$ | | | 1.980<br>1.920 | 6 | | 2815 | 2820 | 2825 | 2830 | 2840 | |
| JF-800 □ | 30 | 34 | $30\ ^{}_{-0.033}$ | $34\ ^{+0.025}$ | | 0.218<br>0.040 | | | | 3015 | 3020 | 3025 | 3030 | 3040 | |
| JF-800 □ | 32 | 36 | $32\ ^{}_{-0.039}$ | $36\ ^{+0.025}$ | +0.185<br>+0.040 | | | | | 3215 | 3220 | 3225 | 3230 | 3240 | |
| JF-800 □ | 35 | 39 | $35\ ^{}_{-0.039}$ | $39\ ^{+0.025}$ | | 0.224<br>0.040 | | | | | 3520 | 3525 | 3530 | 3540 | 3550 |
| JF-800 □ | 38 | 42 | $38\ ^{}_{-0.039}$ | $42\ ^{+0.025}$ | | | | 8 | | | 3820 | 3825 | 3830 | 3840 | 3850 |
| JF-800 □ | 40 | 44 | $40\ ^{}_{-0.039}$ | $44\ ^{+0.025}$ | | | | | | | 4020 | 4025 | 4030 | 4040 | 4050 |

# JF-800/720/700/20/930

单位unit:mm

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| JF-800 □ | 45 | 50 | 45 −0.039 | 50 +0.025 | +0.225 +0.080 | 0.264 0.080 | 2.460 2.400 | 8 | 4525 | 4530 | 4540 | 4550 | | | | |
| JF-800 □ | 50 | 55 | 50 −0.039 | 55 +0.030 | +0.230+ 0.080 | 0.269 0.080 | | | | 5030 | 5040 | 5050 | 5060 | | | |
| JF-800 □ | 55 | 60 | 55 −0.046 | 60 +0.030 | | 0.276 0.080 | | | | 5530 | 5540 | 5550 | 5560 | | | |
| JF-800 □ | 60 | 65 | 60 −0.046 | 65 +0.030 | | | | | | 6030 | 6040 | 6050 | 6060 | | | |
| JF-800 □ | 65 | 70 | 65 −0.046 | 70 +0.030 | | | | | | 6530 | 6540 | 6550 | 6560 | | | |
| JF-800 □ | 70 | 75 | 70 −0.046 | 75 +0.030 | | | | | | 7030 | 7040 | 7050 | 7060 | 7080 | | |
| JF-800 □ | 75 | 80 | 75 −0.046 | 80 +0.030 | | | | 9.5 | | 7530 | 7540 | 7550 | 7560 | | | |
| JF-800 □ | 80 | 85 | 80 −0.046 | 85 +0.035 | +0.235 +0.080 | 0.281 0.080 | | | | | 8040 | 8050 | 8060 | 8080 | | |
| JF-800 □ | 85 | 90 | 85 −0.054 | 90 +0.035 | | 0.289 0.080 | | | | 8530 | | 8550 | 8560 | 8580 | | 85100 |
| JF-800 □ | 90 | 95 | 90 −0.054 | 95 +0.035 | | | | | | | | 9050 | 9060 | 9080 | | 90100 |
| JF-800 □ | 95 | 100 | 95 −0.054 | 100 +0.035 | | | | | | | | | 9560 | 9580 | 9590 | 95100 |
| JF-800 □ | 100 | 105 | 100 −0.054 | 105 +0.035 | | | | | | | | | 10060 | 10080 | 10090 | 100100 |
| JF-800 □ | 105 | 110 | 105 −0.054 | 110 +0.035 | | | | | | | | | 10560 | 10580 | | 105100 |
| JF-800 □ | 110 | 115 | 110 −0.054 | 115 +0.035 | | | | | | | | | 11060 | 11080 | | 110100 |
| JF-800 □ | 115 | 120 | 115 −0.054 | 120 +0.035 | | | | | | | | 11550 | | 11580 | | |
| JF-800 □ | 120 | 125 | 120 −0.054 | 125 +0.040 | +0.240 +0.080 | 0.303 0.080 | | | | | | 12050 | 12030 | | | 120100 |
| JF-800 □ | 125 | 130 | 125 −0.063 | 130 +0.040 | | | | | | | | | | | | 125100 |
| JF-800 □ | 130 | 135 | 130 −0.063 | 135 +0.040 | | | | | | | | | 13060 | | | 130100 |
| JF-800 □ | 135 | 140 | 135 −0.063 | 140 +0.040 | | | | | | | | | 13560 | 13580 | | |
| JF-800 □ | 140 | 145 | 140 −0.063 | 145 +0.040 | | | | | | | | | 14060 | 14080 | | 140100 |
| JF-800 □ | 150 | 155 | 150 −0.063 | 155 +0.040 | | | | | | | | | 15060 | 15080 | | 150100 |



# TF



## TF-1 石墨散嵌合金轴承
## Solid Lubricant Bush

TF-1系列轴承性能上与国外DEVA-BM材料相类似。TF-1系列轴承是以低碳钢或铜材料为基板，表面烧结一层特殊成分的自润滑合金。该自润滑合金层是以青铜合金为基体，中间弥散分布固体润滑剂（固体润滑剂的主要成分为石墨）。

TF-1 a new kind of material, is developed by ourselves recently, whose performance is similar with DEVA-BM abroad. Its steel backing is low-carbon steel or stainless steel, a coat of special self-lubrication alloy (its steel backing is bronze alloy) was sintered on the surface. Solid lubrication mill) spread in it.



## TF-2 镍石墨散嵌合金轴承
## Solid Lubricant Bush

TF-2系列轴承性能上与日本OILESS　2000＃材料相类似。TF-2系列轴承是以低碳钢为基板，表面烧结一层特殊成分的自润滑合金。该自润滑合金层是以铜铁镍合金为基体，中间弥散分布固体润滑剂（固体润滑剂的主要成分为石墨）。

TF-2 a new kind of material, is developed by ourselves recently whose performance is similar with the OILESS 2000# in Japan. Its steel backing is low-carbon steel, a coat of special self-lubrication alloy was sintered on the surface. This alloy's steel backing is Cu+Fe+Ni alloy, Solid lubricatation (The main composition is stone mill) spread in it.

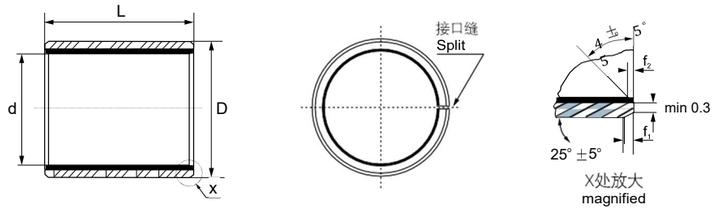
| | | | |
|---|---|---|---|
| 金属基板 Backing Metal | | 钢板 Steel | 不锈钢板 Stainless Steel |
| 耐磨层 Lining Layer | 成分：Composition | CuSn13 | CuSn13 |
| | 固体润滑剂：Solid Lubrications | 6% | 6% |
| | 硬度：Hardness | ≥40HB | ≥40HB |
| | 抗拉强度：Compressive Strength | 320N/mm² | 300N/mm² |
| 最大承载 P Max Load Capacity | 静载 Static load | 150N/mm² | 150N/mm² |
| | 动载 Dynamic load | 100N/mm² | 100N/mm² |
| 最高线速度 V Max line Speed | | 0.5m/s | 0.5m/s |
| 最大PV值 Max PV | | 1.5N/mm²·m/s | 1.5N/mm²·m/s |
| 适用温度 Working temperature | | -150℃～+250℃ | -150℃～+250℃ |
| 摩擦系数 μ Friction coefficient | | 0.10~0.30 | 0.10~0.30 |

| 外 径 ΦD OuterDiameterΦD | 0~10 | 18~30 | 30~50 | 50~80 | 80~120 | 120~180 | 180~250 |
|---|---|---|---|---|---|---|---|
| 座孔H7中值 Housing H7 Middle | D+0.009 | D+0.011 | D+0.013 | D+0.015 | D+0.018 | D+0.020 | D+0.023 |

# TF 金属基弥散型自润滑轴承
# Metal base point-lubricating bearings

## TF






※标准直套标注方式：Standard Bushing Label Mode TF□ 1210

单位unit:mm

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TF □ | 14 | 12 | 12 | 14 | 0.6 | 0.3 | 1210 | 1220 | | | | | |
| TF □ | 16 | 14 | 14 | 16 | | | 1410 | 1420 | | | | | |
| TF □ | 18 | 16 | 16 | 18 | | | 1610 | 1620 | | | | | |
| TF □ | 20 | 18 | 18 | 20 | | | | 1820 | 1830 | | | | |
| TF □ | 23 | 20 | 20 | 23 | 0.8 | 0.4 | | 2020 | 2030 | | | | |
| TF □ | 25 | 22 | 22 | 25 | | | | 2220 | 2230 | | | | |
| TF □ | 28 | 25 | 25 | 28 | | | | 2520 | 2530 | | | | |
| TF □ | 34 | 30 | 30 | 34 | 1.2 | 0.6 | | 3020 | 3030 | | | | |
| TF □ | 39 | 35 | 35 | 39 | | | | 3520 | 3530 | 3540 | | | |
| TF □ | 44 | 40 | 40 | 44 | | | | 4020 | 4030 | 4040 | | | |
| TF □ | 50 | 45 | 45 | 50 | 1.6 | 0.8 | | 4520 | 4530 | 4540 | | | |
| TF □ | 55 | 50 | 50 | 55 | | | | | 5030 | 5040 | 5060 | | |
| TF □ | 60 | 55 | 55 | 60 | | | | | 5530 | 5540 | 5560 | | |
| TF □ | 65 | 60 | 60 | 65 | | | | | | 6040 | 6060 | | |
| TF □ | 70 | 65 | 65 | 70 | | | | | | 6540 | 6560 | | |
| TF □ | 80 | 75 | 75 | 80 | | | | | | 7540 | 7560 | 7580 | |
| TF □ | 85 | 80 | 80 | 85 | | | | | | 8040 | 8060 | 8080 | |
| TF □ | 95 | 90 | 90 | 95 | | | | | | 9040 | 9060 | 9080 | |
| TF □ | 105 | 100 | 100 | 105 | | | | | | 10040 | 10060 | 10080 | |
| TF □ | 115 | 110 | 110 | 115 | | | | | | 11040 | 11060 | 11080 | |
| TF □ | 125 | 120 | 120 | 125 | | | | | | | 12060 | 12080 | 120100 |
| TF □ | 135 | 130 | 130 | 135 | | | | | | | 13060 | 13080 | 130100 |
| TF □ | 155 | 150 | 150 | 155 | | | | | | | 15060 | 15080 | 150100 |



# FB 单金属系列自润滑轴承
# Mometallic self-lubricating Bearings

## FB



### FB090 青铜自润滑轴承
### Bronze self-lubricating bearing

该产品以特殊配方的高密度铜合金带材为基体，表面轧制菱形油穴或半球形的油穴，具有密度高，承载压力大，耐磨性能好，使用寿命长。产品被广泛应用于起重机械、建筑机械、机床工业、采矿机械等领域。

FB090 Bronze self-lubricating bearings used a kind of high density broze alloy of special compositions as base, surface of alloy is rolled diamond type of the oil indents or half ball oil indents, this kind of bearing has higher density, load capacity, well wearing performance, longer lifetime. It has been widely used in many fields, such as hoist machines, building machinery, machine tool industry and mining machinery.

※技术参数：Technical Data

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 120N/mm$^2$ |
| | 动载 Dynamic load | 40N/mm$^2$ |
| 最高线速度 V Max Sliding Speed | | 2.0m/s |
| 最高PV值 Max PV Value Limit | | 2.8N/mm$^2$ • m/s |
| 摩擦系数 μ Friction coefficient | | 0.08～0.25 |
| 使用温度 Working temperature | | -100℃～+200℃ |
| 导热系数 Thermal conductivity | | 60W/m • K |
| 热膨胀系数 Coefficient of thermal expansion | | 15×10$^{-6}$/K |



### FB092 青铜冲孔自润滑轴承
### Bronze with through hole self-lubricating bearing

该产品CuSn8为基体，工作表面布满有规则油孔，具有承载高、耐磨性能好、摩擦系数低。产品被广泛应用于输送机、升降机、卷扬机、农用机械等。

FB092 Bronze punch hole self-lubricating bearing used CuSn8 as base, designed regular oil holes bestrewn working surface, it has high load capacity, well wearing resistance and low friction coefficient, if has been widely applied to transportation machinery, elecator, coiling machinery and agriculture equipment.

※技术参数：Technical Data

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 120N/mm$^2$ |
| | 动载 Dynamic load | 40N/mm$^2$ |
| 最高线速度 V Max Sliding Speed | | 2.5m/s |
| 最高PV值 Max PV Value Limit | | 2.8N/mm$^2$ • m/s |
| 摩擦系数 μ Friction coefficient | | 0.08～0.25 |
| 使用温度 Working temperature | | -100℃～+200℃ |
| 导热系数 Thermal conductivity | | 60W/m • K |
| 热膨胀系数 Coefficient of thermal expansion | | 15×10$^{-6}$/K |

## FB



### FB09G 青铜固体自润滑轴承
### Bronze self-lubricating bearing

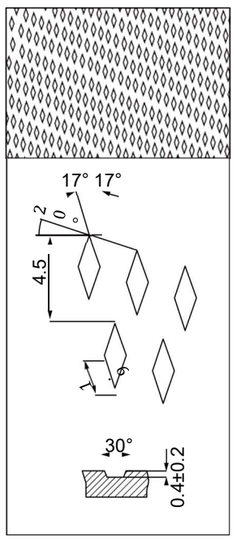
该产品CuSn8为基体，表面轧制螺旋角度菱形油穴，内嵌石墨或二硫化钼，润滑面积25%。具有摩擦系数小，良好的润滑性和抗磨性。产品被广泛应用于汽车起动电机，发电机，汽机车离合器等。

FB09G bronze solid self-lubricating bearing used CuSn8 as base, agglomerated by porous bronze powder, surface of alloy is rolled the spirally diamond type of the hole, embedded lead and molybdenum disulfide, the lubrication area of the bearing surface is being about 25%. Characterized by low friction coefficient, good lubricating action and wear resistant action. This type of bearing is particularly applied in starting motor for automobiles, generators, automotive clutch parts etc.

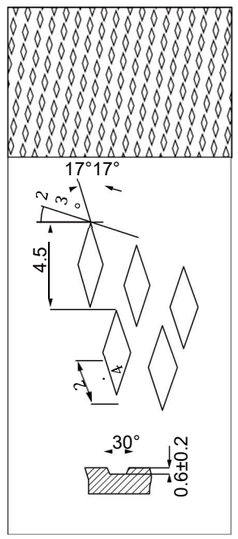
※技术参数：Technical Data

| | | |
|---|---|---|
| 最大承载 P<br>Max Load Capacity | 静载 Static load | 120N/mm$^2$ |
| | 动载 Dynamic load | 40N/mm$^2$ |
| 最高线速度 V Max Sliding Speed | | 2.5m/s |
| 最高PV值 Max PV Value Limit | | 2.8N/mm$^2$ • m/s |
| 摩擦系数 μ Friction coefficient | | 0.05～0.25 |
| 使用温度 Working temperature | | -100℃～+200℃ |
| 导热系数 Thermal conductivity | | 60W/m • K |
| 热膨胀系数 Coefficient of thermal expansion | | 15×10$^{-6}$/K |

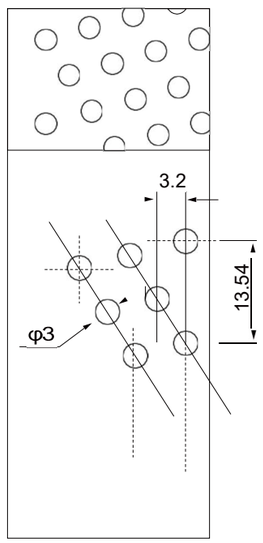
油穴类型
Oil Pocket Type
内径Φd≤22
Inner Diameter Φd≤22



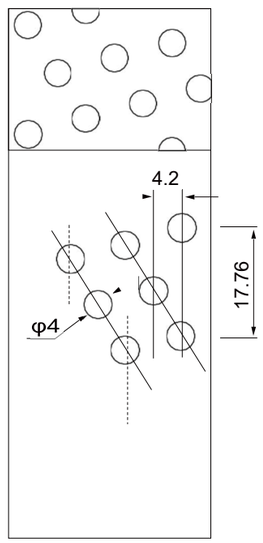

内径Φd＞22
Inner Diameter Φd＞22




油穴类型
Oil Hole Type
内径Φd≤25
Inner Diameter Φd≤25




内径Φd＞25
Inner Diameter Φd＞25




FB 单金属系列自润滑轴承
Mometallic self-lubricating Bearings
欧必帝轴承
OBD SELF-LUBRICATINGBEARING

## FB

轴套外径公差表
Bushing O.D.Tolerances Table

| | |
|---|---|
| ΦD≤10 | +0.055<br>+0.025 |
| 10＜ΦD≤18 | +0.065<br>+0.030 |
| 18＜ΦD≤30 | +0.075<br>+0.035 |
| 30＜ΦD≤50 | +0.085<br>+0.045 |
| 50＜ΦD≤80 | +0.100<br>+0.055 |
| 80＜ΦD≤120 | +0.120<br>+0.070 |
| 120＜ΦD≤180 | +0.170<br>+0.100 |
| 180＜ΦD≤250 | +0.210<br>+0.130 |

轴套壁厚公差
Bushing Wall Thickness Tolerances Table

| | |
|---|---|
| Φd≤10 | +0.036<br>0 |
| 10＜Φd≤18 | +0.043<br>0 |
| 18＜Φd≤30 | +0.052<br>0 |
| 30＜Φd≤50 | +0.062<br>0 |
| 50＜Φd≤80 | +0.074<br>0 |
| 80＜Φd≤120 | +0.087<br>0 |
| 120＜Φd≤180 | +0.100<br>0 |
| 180＜Φd≤250 | +0.115<br>0 |

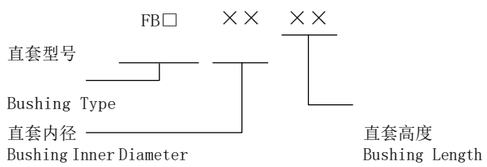
检验座孔公差表
Test Housing Tolerances Table

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 座孔H7中值<br>Housing H7 Middle | D+0.009 | D+0.011 | D+0.013 | D+0.015 | D+0.018 | D+0.020 | D+0.023 |

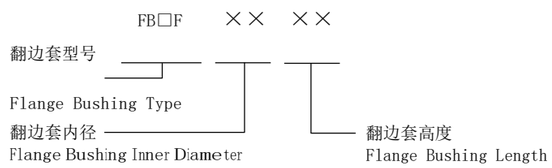
FB系列产品压入座孔h7中值，内孔精度达到 h9。
FB series products press into housing H7 middle, accuracy of inner diameter can reach H9.

可供标准产品的标注方式
Standard Bushing Label Mode

■ 直套标注方式 Bushing Label Mode

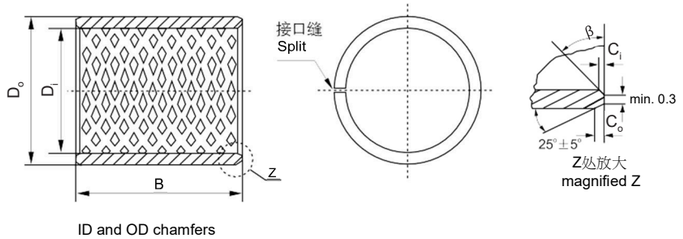



■ 翻边套标注方式 Flange Bushing Label Mode



## FB090/092/09G






ID and OD chamfers

| $S_3$ | $C_o$ | $C_i$ | β |
|---|---|---|---|
| 0.75 | 0.5±0.3 | 0.25±0.2 | 35°±5° |
| 1.00 | 0.6±0.3 | 0.30±0.2 | 35°±5° |
| 1.50 | 0.7±0.3 | 0.50±0.3 | 35°±5° |

| $S_3$ | $C_o$ | $C_i$ | β |
|---|---|---|---|
| 2.00 | 1.2±0.4 | 0.50±0.3 | 30°±5° |
| 2.50 | 1.8±0.6 | 0.60±0.3 | 45°±5° |
| | | | |

※标准直套标注方式：Standard Bushing Label Mode FB□ 1010

单位unit:mm

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FB □ | 10 | 12 | 1010 | 1015 | 1020 | | | | | | | | | |
| FB □ | 12 | 14 | 1210 | 1215 | 1220 | | | | | | | | | |
| FB □ | 14 | 16 | 1410 | 1415 | 1420 | 1425 | | | | | | | | |
| FB □ | 15 | 17 | 1510 | 1515 | 1520 | 1525 | | | | | | | | |
| FB □ | 16 | 18 | 1610 | 1615 | 1620 | 1625 | | | | | | | | |
| FB □ | 18 | 20 | 1810 | 1815 | 1820 | 1825 | | | | | | | | |
| FB □ | 20 | 23 | 2010 | 2015 | 2020 | 2025 | | | | | | | | |
| FB □ | 22 | 25 | 2210 | 2215 | 2220 | 2225 | 2230 | | | | | | | |
| FB □ | 24 | 27 | | 2415 | 2420 | 2425 | 2430 | | | | | | | |
| FB □ | 25 | 28 | | 2515 | 2520 | 2525 | 2530 | | | | | | | |
| FB □ | 28 | 31 | | 2815 | 2820 | 2825 | 2830 | | | | | | | |
| FB □ | 30 | 34 | | 3015 | 3020 | 3025 | 3030 | 3035 | 3040 | | | | | |
| FB □ | 32 | 36 | | 3215 | 3220 | 3225 | 3230 | 3235 | 3240 | | | | | |
| FB □ | 35 | 39 | | 3515 | 3520 | 3525 | 3530 | 3535 | 3540 | | | | | |
| FB □ | 40 | 44 | | | 4020 | 4025 | 4030 | 4035 | 4040 | 4050 | | | | |
| FB □ | 45 | 50 | | | 4520 | 4525 | 4530 | 4535 | 4540 | 4550 | | | | |
| FB □ | 50 | 55 | | | 5020 | 5025 | 5030 | 5035 | 5040 | 5050 | 5060 | | | |
| FB □ | 55 | 60 | | | 5520 | 5525 | 5530 | 5535 | 5540 | 5550 | 5560 | | | |
| FB □ | 60 | 65 | | | | 6025 | 6030 | 6035 | 6040 | 6050 | 6060 | 6070 | | |
| FB □ | 65 | 70 | | | | | 6530 | 6535 | 6540 | 6550 | 6560 | 6570 | | |
| FB □ | 70 | 75 | | | | | 7030 | 7035 | 7040 | 7050 | 7060 | 7070 | 7080 | |
| FB □ | 75 | 80 | | | | | 7530 | 7535 | 7540 | 7550 | 7560 | 7570 | 7580 | |
| FB □ | 80 | 85 | | | | | 8030 | 8035 | 8040 | 8050 | 8060 | 8070 | 8080 | |
| FB □ | 85 | 90 | | | | | 8530 | 8535 | 8540 | 8550 | 8560 | 8570 | 8580 | 8590 |
| FB □ | 90 | 95 | | | | | 9030 | 9035 | 9040 | 9050 | 9060 | 9070 | 9080 | 9090 |
| FB □ | 95 | 100 | | | | | | | 9540 | 9550 | 9560 | 9570 | 9580 | 9590 | 95100 |

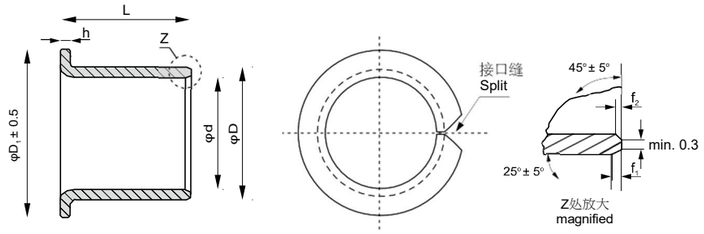
FB090/092/09G 标准公制轴承
Metric Standard Bushing
欧必帝轴承
OBD SELF-LUBRICATINGBEARING

## FB090/092/09G

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FB □ | 100 | 105 | | | | | 10050 | 10060 | 10070 | 10080 | 10090 | 100100 |
| FB □ | 105 | 110 | | | | | 10550 | 10560 | 10570 | 10580 | 10590 | 105100 |
| FB □ | 110 | 115 | | | | | 11050 | 11060 | 11070 | 11080 | 11090 | 110100 |
| FB □ | 115 | 120 | | | | | 11550 | 11560 | 11570 | 11580 | 11590 | 115100 |
| FB □ | 120 | 125 | | | | | | 12060 | 12070 | 12080 | 12090 | 120100 |
| FB □ | 125 | 130 | | | | | | 12560 | 12570 | 12580 | 12590 | 125100 |
| FB □ | 130 | 135 | | | | | | 13060 | 13070 | 13080 | 13090 | 130100 |
| FB □ | 135 | 140 | | | | | | 13560 | 13570 | 13580 | 13590 | 135100 |
| FB □ | 140 | 145 | | | | | | 14060 | 14070 | 14080 | 14090 | 140100 |
| FB □ | 145 | 150 | | | | | | 14560 | 14570 | 14580 | 14590 | 145100 |
| FB □ | 150 | 155 | | | | | | 15060 | 15070 | 15080 | 15090 | 150100 |
| FB □ | 155 | 160 | | | | | | 15560 | 15570 | 15580 | 15590 | 155100 |
| FB □ | 160 | 165 | | | | | | 16060 | 16070 | 16080 | 16090 | 160100 |
| FB □ | 165 | 170 | | | | | | 16560 | 16570 | 16580 | 16590 | 165100 |
| FB □ | 170 | 175 | | | | | | 17060 | 17070 | 17080 | 17090 | 170100 |
| FB □ | 175 | 180 | | | | | | 17560 | 17570 | 17580 | 17590 | 175100 |
| FB □ | 180 | 185 | | | | | | 18060 | 18070 | 18080 | 18090 | 180100 |
| FB □ | 185 | 190 | | | | | | 18560 | 18570 | 18580 | 18590 | 185100 |
| FB □ | 190 | 195 | | | | | | 19060 | 19070 | 19080 | 19090 | 190100 |
| FB □ | 195 | 200 | | | | | | 19560 | 19570 | 19580 | 19590 | 195100 |
| FB □ | 200 | 205 | | | | | | 20060 | 20070 | 20080 | 20090 | 200100 |
| FB □ | 205 | 210 | | | | | | 20560 | 20570 | 20580 | 20590 | 205100 |
| FB □ | 215 | 220 | | | | | | 21560 | 21570 | 21580 | 21590 | 215100 |
| FB □ | 225 | 230 | | | | | | 22560 | 22570 | 22580 | 22590 | 225100 |
| FB □ | 230 | 235 | | | | | | 23060 | 23070 | 23080 | 23090 | 230100 |
| FB □ | 240 | 245 | | | | | | 24060 | 24070 | 24080 | 24090 | 240100 |
| FB □ | 250 | 255 | | | | | | 25060 | 25070 | 25080 | 25090 | 250100 |
| FB □ | 260 | 265 | | | | | | 26060 | 26070 | 26080 | 26090 | 260100 |
| FB □ | 270 | 275 | | | | | | 27060 | 27070 | 27080 | 27090 | 270100 |
| FB □ | 280 | 285 | | | | | | 28060 | 28070 | 28080 | 28090 | 280100 |
| FB □ | 290 | 295 | | | | | | 29060 | 29070 | 29080 | 29090 | 290100 |
| FB □ | 300 | 305 | | | | | | 30060 | 30070 | 30080 | 30090 | 300100 |

## FB090F/092F






※标准翻边套标注方式：Standard Flange Bushing Label Mode FB□F 25150

单位unit:mm

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FB090 □F 2520 | 25 | 28 | 35 | 1.5 | 20 | 0.8 | 0.4 | 25 -0.020 -0.041 | 28 +0.021 0 |
| FB090 □F 2525 | | | | | 25 | | | | |
| FB090 □F 3020 | 30 | 34 | 45 | 2.0 | 20 | 1.2 | 0.6 | 30 -0.020 -0.041 | 34 +0.025 0 |
| FB090 □F 3025 | | | | | 25 | | | | |
| FB090 □F 3030 | | | | | 30 | | | | |
| FB090 □F 3530 | 35 | 39 | 50 | | 30 | | | 35 -0.025 -0.050 | 39 +0.025 0 |
| FB090 □F 3540 | | | | | 40 | | | | |
| FB090 □F 3550 | | | | | 50 | | | | |
| FB090 □F 4030 | 40 | 44 | 55 | | 30 | | | 40 -0.025 -0.050 | 44 +0.025 0 |
| FB090 □F 4040 | | | | | 40 | | | | |
| FB090 □F 4050 | | | | | 50 | | | | |
| FB090 □F 5030 | 50 | 55 | 65 | 2.5 | 30 | 1.6 | 0.8 | 50 -0.025 -0.050 | 55 +0.030 0 |
| FB090 □F 5040 | | | | | 40 | | | | |
| FB090 □F 5050 | | | | | 50 | | | | |
| FB090 □F 5530 | 55 | 60 | 70 | | 30 | | | 55 -0.030 -0.060 | 60 +0.030 0 |
| FB090 □F 5540 | | | | | 40 | | | | |
| FB090 □F 5550 | | | | | 50 | | | | |
| FB090 □F 6040 | 60 | 65 | 75 | | 40 | | | 60 -0.030 -0.060 | 65 +0.030 0 |
| FB090 □F 6050 | | | | | 50 | | | | |
| FB090 □F 6060 | | | | | 60 | | | | |
| FB090 □F 8050 | 80 | 85 | 100 | | 50 | | | 80 -0.030 -0.060 | 85 +0.035 0 |
| FB090 □F 8060 | | | | | 60 | | | | |
| FB090 □F 8080 | | | | | 80 | | | | |
| FB090 □F 10050 | 100 | 105 | 120 | | 50 | | | 100 -0.036 -0.071 | 105 +0.035 0 |
| FB090 □F 10060 | | | | | 60 | | | | |
| FB090 □F 10080 | | | | | 80 | | | | |
| FB090 □F 16060 | 160 | 165 | 190 | | 60 | | | 160 -0.043 -0.083 | 165 +0.040 0 |
| FB090 □F 16080 | | | | | 80 | | | | |
| FB090 □F 20060 | 200 | 205 | 235 | | 60 | | | 200 -0.050 -0.096 | 205 +0.046 0 |
| FB090 □F 20080 | | | | | 80 | | | | |



## FB090F/092F



### FZH 铜基钢球保持架 Bronze Ball Retainer

该产品以铜基，配以优质钢球，按一定的角度和密度有序地排列，采用特殊工艺加工而成。产品适用于冷冲模具，精密机床等。

The basement of this product is copper. With the high quality roller being arranged orderly in certain angle and density, it is produced by special workmanship. This kind of products is used in punching mold and high-precision machine tools.

※技术参数：Technical Data

| | | | |
|---|---|---|---|
| 最大承载压力 | 30N/mm² | 装配过盈 | 0.01mm~0.02mm |
| 最高线速度 | 6m/s | 钢球直径偏差 | <0.002mm |
| 摩擦系数 | 0.01~0.08 | | |



### FZL 铝基钢球保持架 Aluminium Ball Retainer

该产品以铝基为基体，配以优质钢球，按一定的角度和密度有序地排列，采用特殊工艺加工而成。产品适用于冷冲模具，精密机床等。

The basement of this product is aluminum. With the high quality roller being arranged orderly in certain angle and density, it is produced by special workmanship. This kind of products is used in punching mold and high-precision machine tools.

※技术参数：Technical Data

| | | | |
|---|---|---|---|
| 最大承载压力 | 25N/mm² | 装配过盈 | 0.01mm~0.02mm |
| 最高线速度 | 6m/s | 钢球直径偏差 | <0.002mm |
| 摩擦系数 | 0.01~0.08 | | |



### FZP 树脂基钢球保持架 Resin Ball Retainer

该产品以POM为基体，配以优质钢球，按一定的角度和密度有序地排列，采用特殊工艺加工而成。产品适用于冷冲模具，精密机床等。

The basement of this product is POM. With the high quality roller being arranged orderly in certain angle and density, it is produced by special workmanship. This kind of products is used in punching mold and high-precision machine tools.

※技术参数：Technical Data

| | | | |
|---|---|---|---|
| 最大承载压力 | 20N/mm² | 装配过盈 | 0.01mm~0.02mm |
| 最高线速度 | 6m/s | 钢球直径偏差 | <0.002mm |
| 摩擦系数 | 0.01~0.08 | | |

### 导套 Guide Bushing

材料 QCrj15，YB9，热处理，硬度 HRC60-66，技术条件按 GB/T12446 与，轴配合应具有 0.01-0.02 径向过盈量，表面粗糙度为 0.05

Material gcri 5， YB9,heat treament HRC62-66, technlque condition according to gb/t12446, thesurface roughnessis 0.05

### 轴 Guide Posts

材料 GCrl15，YB9，热处理，硬度 HRC60-66，技术条件按GB/T12446 与，表面粗糙度为 0.05

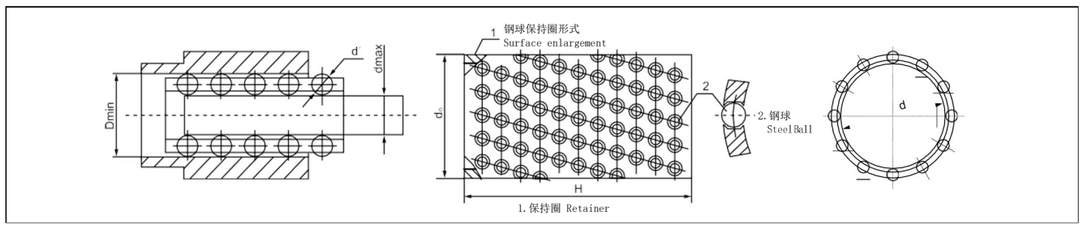
Material GCrl5,YB9,heat treament HRC62-66,the tolerance of shaftis h5, the surface Roughness is 0.05

### 测量 Size Test

用通用的测量手段（气动量仪，外径千分尺，内径千分表等）测量轴、导套和钢球的尺寸偏差值，即 Ymax=dax+2d2-Dmin, 可示出配合后的过盈量为 0.01-0.02mm.

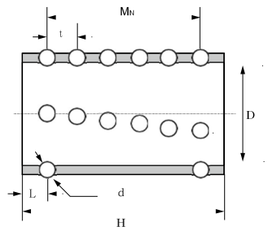
It is tested by outside micrometer 8 dial gauge as usual, The ymax(yamx=dax+2d'-dmini Request 0.01.0.02mm)

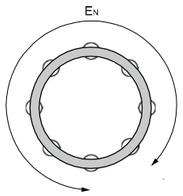
### 钢球保持圈形式 Surface enlargement



## FZ






※标准产品标注方式：Standard Bushing Label Mode FZ□ 1950

单位unit:mm

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FZ □ 1950 | 19 | 50 | 3 | 12 | 8 | 96 | 5.5 | 5.75 |
| FZ □ 1960 | 19 | 60 | 3 | 12 | 10 | 120 | 5.5 | 5.25 |
| FZ □ 2050 | 20 | 50 | 3 | 12 | 8 | 96 | 5.5 | 5.75 |
| FZ □ 2060 | 20 | 60 | 3 | 12 | 10 | 120 | 5.5 | 5.25 |
| FZ □ 2250 | 22 | 50 | 3 | 14 | 8 | 112 | 5.5 | 5.75 |
| FZ □ 2260 | 22 | 60 | 3 | 14 | 10 | 140 | 5.5 | 5.25 |
| FZ □ 2360 | 23 | 60 | 3 | 14 | 10 | 208 | 5.45 | 5.25 |
| FZ □ 2475 | 24 | 75 | 3 | 16 | 13 | 128 | 5.5 | 4.8 |
| FZ □ 2550 | 25 | 50 | 3 | 16 | 8 | 112 | 5.5 | 5.75 |
| FZ □ 2560 | 25 | 60 | 3 | 16 | 10 | 160 | 5.45 | 5.25 |
| FZ □ 2575 | 25 | 75 | 3 | 16 | 13 | 208 | 5.45 | 4.8 |
| FZ □ 2775 | 27 | 75 | 3 | 16 | 13 | 208 | 6.5 | 4.8 |
| FZ □ 2860 | 28 | 60 | 4 | 14 | 8 | 112 | 6.5 | 7.25 |
| FZ □ 2875 | 28 | 75 | 4 | 14 | 11 | 154 | 6.5 | 5.0 |
| FZ □ 3060 | 30 | 60 | 4 | 14 | 8 | 112 | 6.5 | 7.25 |
| FZ □ 3075 | 30 | 75 | 4 | 14 | 11 | 154 | 6.5 | 5.0 |
| FZ □ 3260 | 32 | 60 | 4 | 16 | 8 | 128 | 6.5 | 7.25 |
| FZ □ 3275 | 32 | 75 | 4 | 16 | 11 | 192 | 6.5 | 5.0 |
| FZ □ 3390 | 32 | 90 | 4 | 16 | 13 | 208 | 6.5 | 7.25 |
| FZ □ 3685 | 36 | 85 | 4 | 16 | 12 | 192 | 6.5 | 5.0 |
| FZ □ 3690 | 36 | 90 | 5 | 16 | 13 | 208 | 6.5 | 6.0 |
| FZ □ 3870 | 38 | 70 | 5 | 16 | 8 | 128 | 8.0 | 7.0 |
| FZ □ 3890 | 38 | 90 | 5 | 16 | 11 | 176 | 7.9 | 5.5 |
| FZ □ 4090 | 40 | 90 | 5 | 16 | 11 | 176 | 7.9 | 5.5 |
| FZ □ 4590 | 45 | 90 | 5 | 18 | 11 | 198 | 7.9 | 5.5 |
| FZ □ 45110 | 45 | 110 | 5 | 18 | 13 | 234 | 8.0 | 7.0 |
| FZ □ 5090 | 50 | 90 | 5 | 20 | 11 | 220 | 7.9 | 5.5 |
| FZ □ 50110 | 50 | 110 | 5 | 20 | 13 | 260 | 8.0 | 7.0 |
| FZ □ 6090 | 60 | 90 | 5 | 22 | 11 | 242 | 7.9 | 5.5 |
| FZ □ 60110 | 60 | 110 | 5 | 22 | 13 | 286 | 8.0 | 7.0 |
| FZ □ 80130 | 80 | 130 | 5 | 28 | 15 | 420 | 8.0 | 9.0 |



## Other Products



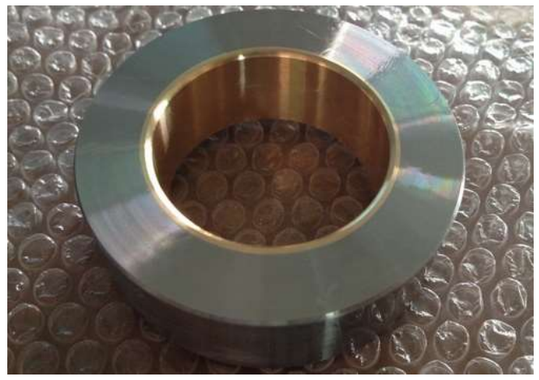
Copper sleeve



Copper Wormwheels



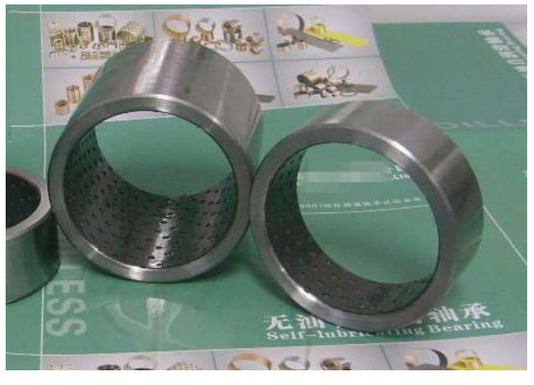
钢铜复合镶嵌自润滑轴承
self lubricating bearing



钢基铜合金轴套



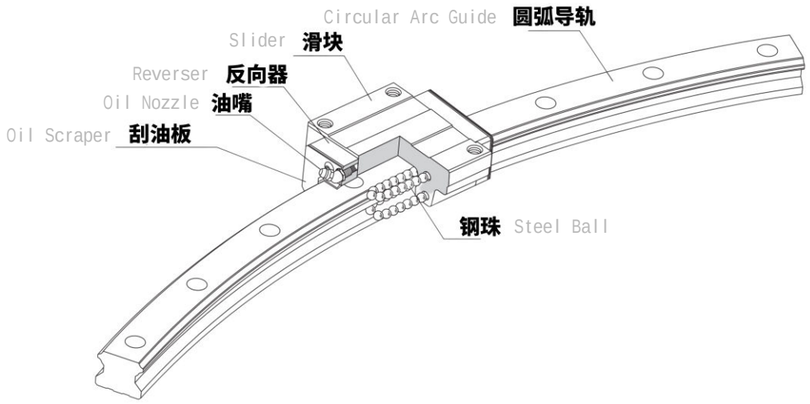
自润滑关节轴承
Self lubricating spherical plain bearing




钢基聚甲醛轴套
POM bushing of Steel Substrate

## CDR系列圆弧导轨产品结构

Product Structure of CDR Series Arc Guides




## CDR 系列圆弧导轨产品特点

### 1.设计自由
Design Freedom

多个滑块可以在相同导轨上分别动作，只要滑块配置在负荷点上，就能实现经济合理的结构设计。

Multiple sliders can move independently on the same guide rail. As long as the sliders are arranged at the load points, an economical and reasonable structural design can be achieved.

### 2.缩短组装时间
Shorten assembly time

与采用滑动导向装置、滚针凸轮导向器的圆弧运动相比，R行圆弧导轨可以获得无间隙的高精度运作。导轨和滑块只需采用螺栓安装即可，所以组装相当简单。

Compared with the circular arc motion achieved by sliding guide devices and needle cam guides, the R-type circular arc guide rail can achieve high-precision operation without backlash. The guide rail and slider only need to be installed with bolts, so the assembly is quite simple.

### 3.可实现5m以上的圆弧运动
Able to achieve circular motion above 5m

可以进行旋转轴承不可能实现的5m以上的圆弧运动。

同时，实现这种圆弧运动的装置其组装，拆卸，重装十分容易。

It can perform circular arc movements with a radius of over 5 meters, which is impossible for rotating bearings. Meanwhile, the device that enables such circular arc movements is extremely easy to assemble, disassemble, and reassemble

### 4.可承载所有方向的负载
Capable of carrying loads in all directions

可以进行旋转轴承不可能实现的5m以上的圆弧运动。

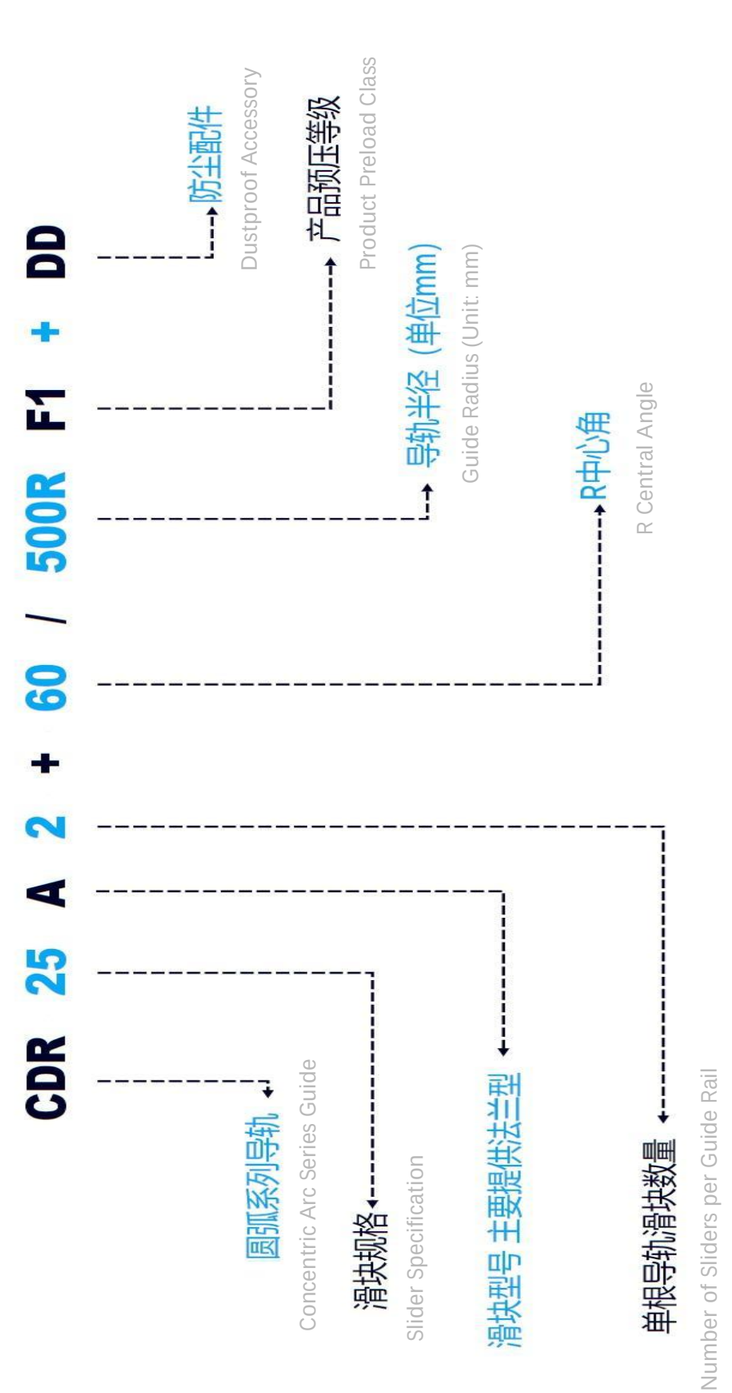
同时，实现这种圆弧运动的装置其组装，拆卸，重装十分容易。

It can perform circular arc movements with a radius of over 5 meters–something that rotating bearings cannot achieve. Meanwhile, the device that enables such circular arc movements is extremely easy to assemble, disassemble, and reassemble.



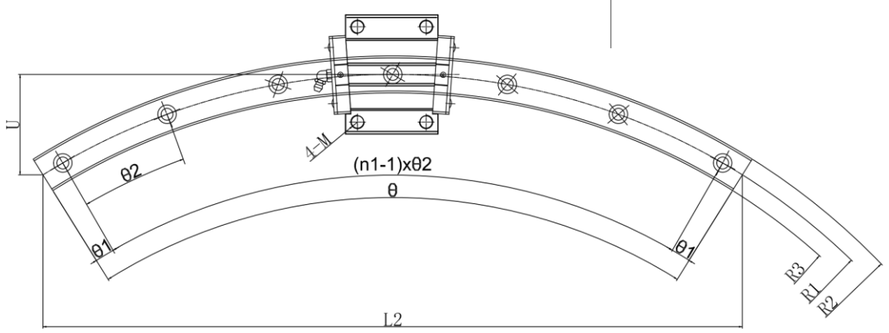
## CDR产品型号构例

Example of CDR Product Model Composition

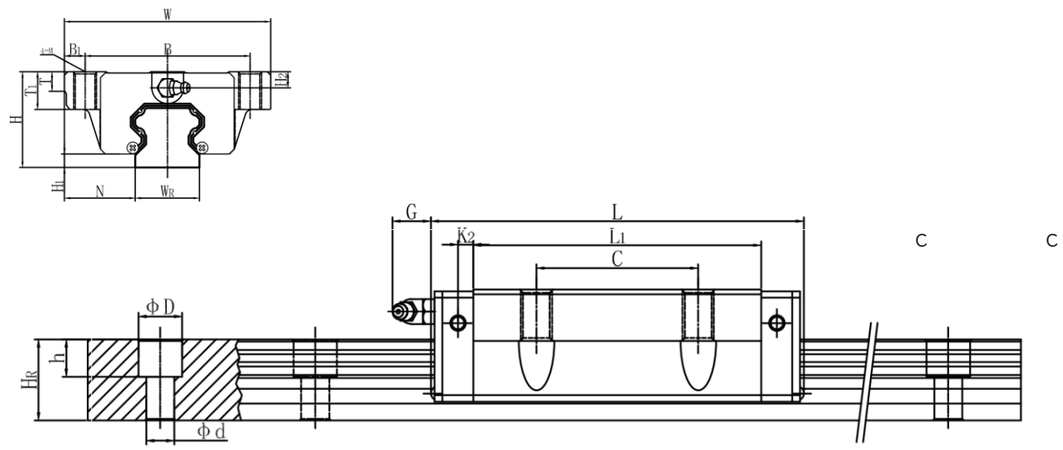


## CDR 系列圆弧导轨尺寸表

CDR Series Circular Arc Guide Rail Dimension Table




圆弧导轨 CDR系列 CDR Series



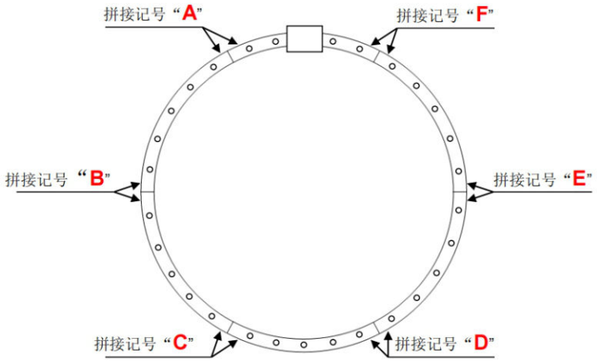

| 型号 | 导轨副 | | 滑块尺寸 | | | | | | 导轨尺寸 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | H1 | W | B*C | L1 | L | M | T1 | WR | HR | D | d | h | L2 |
| CDR12A+60/100R | 18 | 3.1 | 39 | 32*18 | 30.5 | 44.6 | M4 | 5 | 12 | 11 | 6 | 3.5 | 5 | 100 |
| CDR15A+60/150R | 24 | 4.3 | 47 | 38*24 | 39.4 | 57.2 | M5 | 9 | 15 | 15 | 7.5 | 4.5 | 5.3 | 150 |
| CDR15A+60/168R | | | | 38*30 | 42.2 | 60.1 | | | | | | | | 168 |
| CDR15A+60/200R | | | | 38*24 | 39.4 | 57.3 | | | | | | | | 200 |
| CDR15A+60/228R | | | | 38*30 | | 57.3 | | | | | | | | 228 |
| CDR15A+60/300R | | | | 38*28 | | 59.3 | | | | | | | | 300 |
| CDR15A+60/400R | | | | 38*28 | | 59.4 | | | | | | | | 400 |
| CDR25A+60/400R | 36 | 5.5 | 70 | 57*45 | 58 | 79.9 | M8 | 14 | 23 | 22 | 11 | 7 | 9 | 400 |
| CDR25A+60/500R | | | | | | 79.9 | | | | | | | | 500 |
| CDR25A+60/595R | | | | | | | | | | | | | | 595 |
| CDR25A+60/750R | | | | | | 80 | | | | | | | | 750 |
| CDR25A+60/1000R | | | | | | 80 | | | | | | | | 1000 |
| CDR35A+60/600R | 48 | 7.5 | 100 | 82*58 | 80 | 106.7 | M10 | 18 | 34 | 29 | 14 | 9 | 12 | 600 |
| CDR35A+60/800R | | | | | | 107 | | | | | | | | 800 |
| CDR35A+60/1000R | | | | | | 107.7 | | | | | | | | 1000 |
| CDR35A+60/1300R | | | | | | 108 | | | | | | | | 1300 |
| CDR45A+60/800R | 60 | 9.5 | 120 | 100*70 | 97 | 135.6 | M12 | 22 | 45 | 38 | 20 | 14 | 17 | 800 |
| CDR45A+60/1000R | | | | | | 136.3 | | | | | | | | 1000 |
| CDR45A+60/1200R | | | | | | 136.3 | | | | | | | | 1200 |
| CDR45A+60/1600R | | | | | | 137 | | | | | | | | 1600 |
| CDR65A+60/1000R | 90 | 15 | 170 | 142*106 | 144.2 | 191 | M16 | 37 | 63 | 53 | 26 | 18 | 22 | 1000 |
| CDR65A+60/1600R | | | | | | 192.6 | | | | | | | | 1500 |
| CDR65A+60/2000R | | | | | | 193.1 | | | | | | | | 1531 |
| CDR65A+60/2500R | | | | | | 193.7 | | | | | | | | 1913 |
| CDR65A+60/3000R | | | | | | 193.7 | | | | | | | | 1553 |

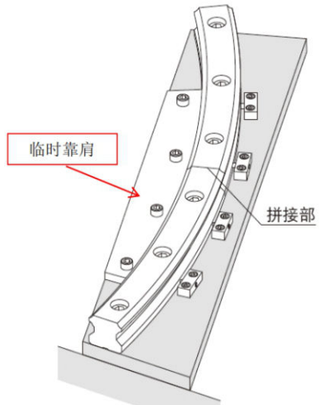
| | | | | | | | 动载 | 静载 | 允许静力矩 | | | 重量 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U | θ ° | θ1° | θ2° | R1 | R2 | R3 | C | C0 | MR | MP | MY | 滑块 | 滑轨 |
| | | | | | | | kN | kN | kN-m | kN-m | kN-m | kg | kg/m |
| 13.4 | 60 | 7 | 23 | 100 | 106 | 94 | 4.7 | 8.53 | 0.0445 | 0.0409 | 0.0409 | 0.08 | 0.83 |
| 20.1 | 60 | 7 | 23 | 150 | 157.5 | 142.5 | 6.66 | 10.8 | 0.0844 | 0.0805 | 0.0805 | 0.17 | 1.45 |
| 22.5 | | 7.5 | 15 | 168 | 175.5 | 160.5 | 8.33 | 13.5 | | | | | |
| 26.8 | | 3 | 18 | 200 | 207.5 | 192.5 | 8.33 | 13.5 | | | | | |
| 31.5 | | 7.5 | 15 | 228 | 235.5 | 220.8 | 8.33 | 13.5 | | | | | |
| 40 | | 6 | 12 | 300 | 307.5 | 292.5 | 8.33 | 13.5 | | | | | |
| 54 | | 3 | 9 | 400 | 407.5 | 392.5 | 8.33 | 13.5 | | | | | |
| 53.1 | 60 | 5 | 10 | 400 | 411.5 | 388.5 | 19.9 | 34.4 | 0.344 | 0.307 | 0.307 | 0.59 | 3.21 |
| 67 | | 2 | 7 | 500 | 511.5 | 488.5 | | | | | | | |
| 79.7 | | 2 | 7 | 595 | 606.5 | 583.5 | | | | | | | |
| 100 | | 2.5 | 5 | 750 | 761.5 | 738.5 | | | | | | | |
| 134 | | 2 | 4 | 1000 | 1011.5 | 988.5 | | | | | | | |
| 80 | 60 | 3 | 9 | 600 | 617 | 583 | 37.3 | 61.1 | 0.905 | 0.782 | 0.782 | 1.56 | 6.3 |
| 107 | | 2.5 | 5.5 | 800 | 817 | 783 | | | | | | | |
| 134 | | 2.5 | 5 | 1000 | 1017 | 983 | | | | | | | |
| 174 | | 2 | 3.5 | 1300 | 1317 | 1283 | | | | | | | |
| 107 | 60 | 2 | 8 | 800 | 822.5 | 777.5 | 60 | 95.6 | 1.83 | 1.42 | 1.42 | 2.79 | 10.41 |
| 134 | | 3 | 6 | 1000 | 1022.5 | 977.5 | | | | | | | |
| 161 | | 2.5 | 5 | 1200 | 1222.5 | 1177.5 | | | | | | | |
| 214 | | 2 | 4 | 1600 | 1622.5 | 1577.5 | | | | | | | |
| 134 | 60 | 2 | 8 | 1000 | 1031.5 | 968.5 | 141 | 215 | 5.82 | 4.8 | 4.8 | 9.17 | 21.18 |
| 201 | 60 | 3 | 6 | 1500 | 1531.5 | 1468.5 | | | | | | | |
| 152 | 45 | 0.5 | 4 | 2000 | 2031.5 | 1968.5 | | | | | | | |
| 190 | 45 | 1.5 | 3.5 | 2500 | 2531.5 | 2468.5 | | | | | | | |
| 102 | 30 | 1.5 | 3 | 3000 | 3031.5 | 2968.5 | | | | | | | |

## CDR 系列圆弧导轨产品安装说明及注意事项

### 1、CDR圆弧导轨的拼接

根据圆弧的形状，CDR型导轨是由多段圆弧导轨拼接而成。当拼接轨道时，按以下事例，请务必按如下图所示的拼接
标记正确定位装配。

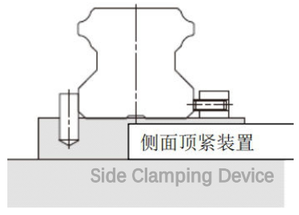



### 2、安装步骤

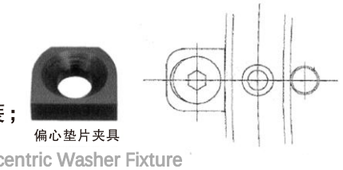
**①准备工作：**

▮去除导轨的防锈油。
▮去除圆弧轨道安装面的异物等，用油石去除打痕、毛刺等。
（基座、导轨的全部安装面）
▮为了避免生锈，导轨应采取涂抹润滑油等措施。




**②导轨安装：**

▮将轨道安放在基座上，螺栓处于不完全锁紧状态。
（将螺栓锁紧后反转1/4~1/2圈为不完全锁紧状态）
▮锁紧侧面顶紧装置
（除了使用偏心垫片夹具来顶紧轨道，也可使用侧面 顶紧装置）
▮使用扭矩扳手，按照规定扭矩锁紧导轨。




**③关于拼接部的安装：**

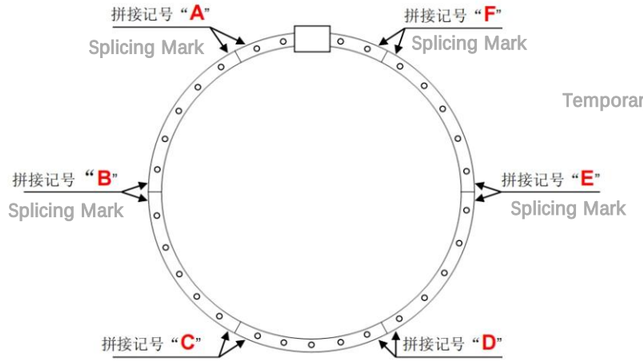
・如果安装有拼接时请注意尽可能在拼接处设置临时靠肩进行安装；
・在临近拼接处请设置顶紧装置防止开口；
・CDR导轨与普通导轨不同的是轨道拼接处是有倒角的；
・请严格控制拼接处导轨段差小于10um，使用间隙尺均等化调整轨道拼接处间隙量；
・安装好后，移动滑块，确认行程内滑块运行顺畅。
・段差的测量：将千分表放置在滑块上， 表针打到轨道上，移动滑块，走过拼接处，查看段差数值。

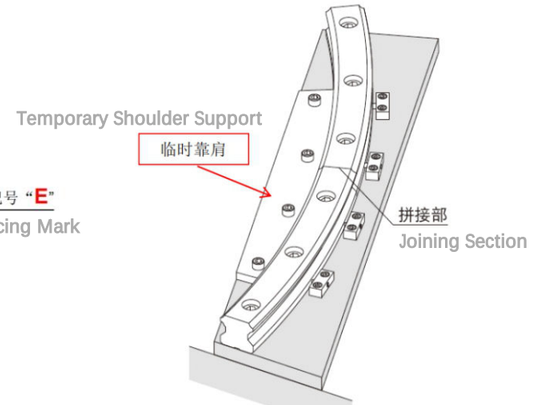
圆弧导轨 CDR系列 CDR Series

Installation Instructions and Precautions for CDR Series Circular Arc Guide Rails

### 1. Splicing of CDR Circular Arc Guide Rails

According to the shape of the circular arc, the CDR-type guide rail is formed by splicing multiple sections of circular arc guide rails. When splicing the rails, please be sure to perform accurate positioning and assembly in accordance with the splicing marks as shown in the figure below, following the example provided.




### 2. Installation Steps

**① Preparation Work:**

Remove the anti-rust oil from the guide rails.Remove foreign matter from the mounting surfaces of the circular arc rails, and use an oil stone to eliminate dents, burrs, etc.(Applicable to all mounting surfaces of the base and guide rails)To prevent rusting, take measures such as applying lubricating oil to the guide rails.

**② Guide Rail Installation:**

Place the rails on the base, with the bolts in a partially tightened state.(A partially tightened state means tightening the bolts first and then reversing them by 1/4 to 1/2 turn.)Tighten the side jacking devices.(In addition to using eccentric washer clamps to jack up the rails, side jacking devices can also be used.)Use a torque wrench to tighten the guide rails to the specified torque.

**③ Installation of Spliced Joints:**

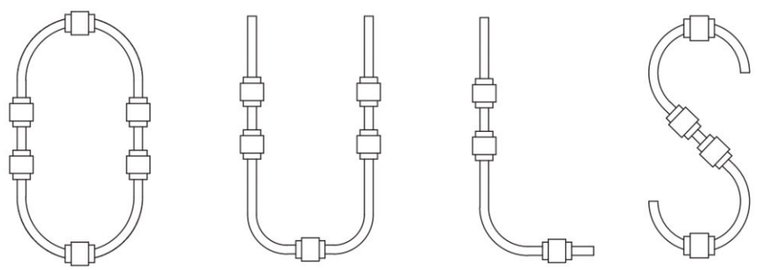
If splicing is required during installation, please note thattemporary shoulders should be installe d at the spliced joints as much as possible.Install jacking devices near the spliced joints to preve nt opening.Unlike ordinary guide rails, the CDR guide rails have chamfers at the rail spliced joint s.Strictly control the step difference of the guide rails at the spliced joints to be less than 10 μm, and use a feeler gauge to adjust the gap at the rail spliced joints to achieve uniformity.After ins tallation, move the slider and confirm that the slider operates smoothly within the stroke.Measu rement of step difference: Place a dial indicator on the slider, bring the indicator needle into co ntact with the rail, move the slider across the spliced joint, and check the step difference value.

## CDMG系列直曲滚动导轨产品结构



## CDMG系列直曲滚动导轨产品特点

**1.设计自由，直线和曲线可以自由地组合**




**2.缩短输送时间**

与往返方式不同，采用了CDMG型的循环方式可以在检查、装配作业中设置工件，大幅度地改进生产节拍。

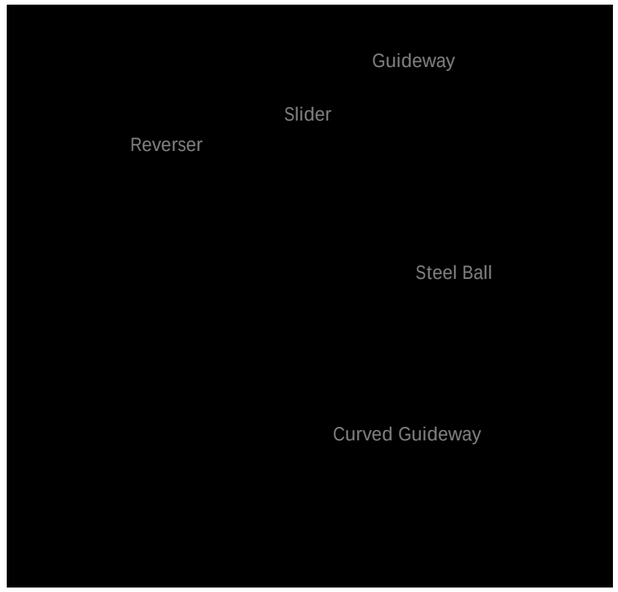
通过增加工作台数,还可以进一步缩短作业时间。

**3、通过简化机构来降低成本**

通过直线轨道和曲线轨道的组合，可以省去以往搬送和制造生产线中用于方向转换的升降机及转台，因此使用CDMG型可以简化结构，大幅度地削减部件数量,从而降低成本。同时，也可以减少设计的工时数。

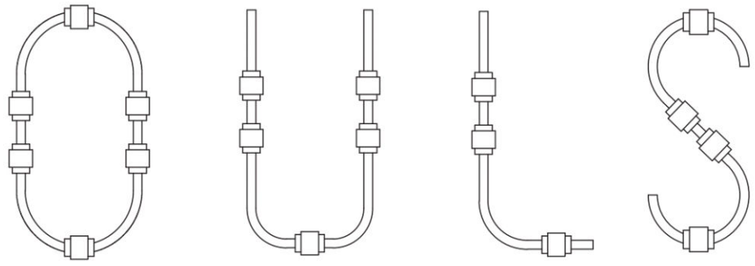
圆弧导轨 CDMG系列 CDMG Series

## CDMG Series Linear-Curved Rolling Guideway Product Structure




## CDMG Series Linear-Curved Rolling Guideways: Product Features

**1.Design Freedom: Linear and Curved Paths Can Be Freely Combined**




**2.Reduced Conveyance Time**

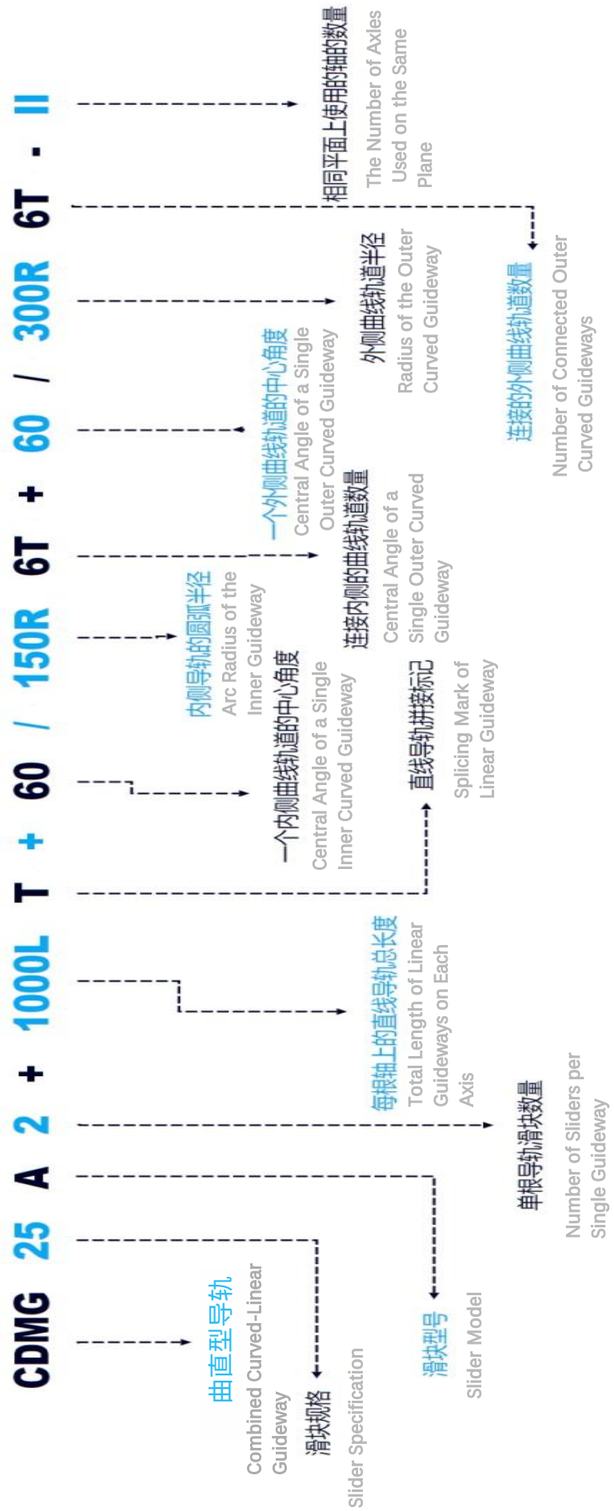
Unlike the reciprocating method, the CDMG-type circulation method allows workpiece placement during inspection and assembly operations, significantly improving the production cycle time. Furthermore, the operation time can be further shortened by increasing the number of worktables.

**3.Cost Reduction Through Mechanism Simplification**

By combining linear rails and curved rails, the elevators and turntables previously used for direction change in transfer and production lines can be eliminated. Therefore, the CDMG type enables structural simplification, significantly reducing the number of components and thereby cutting costs. Additionally, it can also reduce design man-hours.

## CDMG产品型号构例

Example of CDMG Product Model Composition

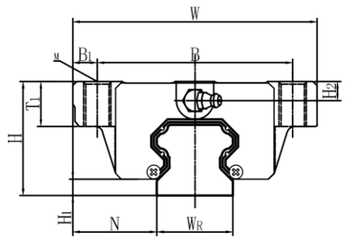


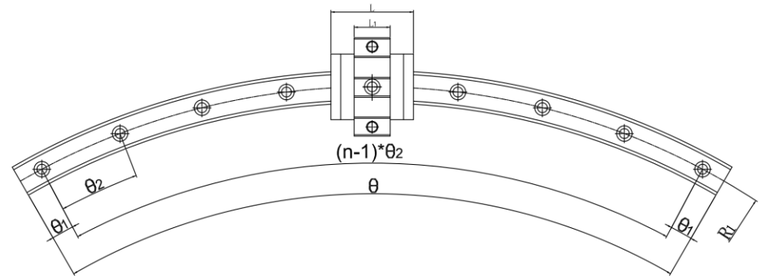





## CDMG系列直曲滚动导轨产品尺寸表

Dimensional Table of CDMG Series Linear-Curved Rolling Guideways




| 型号 | 导轨副 | | 滑块尺寸 | | | | | | 导轨尺寸 | | | | | | | | | | | 动载 | 静载 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | H | H1 | W | B | L1 | L | M | T1 | WR | HR | D | d | h | L2 | U | θ ° | θ 1 ° | θ 2 ° | R1 | 合成 C | 直线 C0 | 曲线 C0 |
| | | | | | | | | | | | | | | | | | | | | kN | kN | kN |
| CDMG15A | 24 | 4.3 | 47 | 38 | 16 | 31.7 | M5 | 9 | 15 | 15 | 7.5 | 4.5 | 5.3 | 150 | 20.1 | 60 | 7 | 23 | 150 | 2.56 | 4.23 | 0.44 |
| | | | | | | | | | | | | | | 228 | 31.5 | | 7.5 | 15 | 228 | | | |
| | | | | | | | | | | | | | | 300 | 40 | | 6 | 12 | 300 | | | |
| | | | | | | | | | | | | | | 400 | 54 | | 3 | 9 | 400 | | | |
| CDMG25A | 36 | 5.5 | 70 | 57 | 25.6 | 57.6 | M8 | 14 | 23 | 22 | 11 | 7 | 9 | 400 | 53.1 | 60 | 5 | 10 | 400 | 9.41 | 10.8 | 6.7 |
| | | | | | | | | | | | | | | 500 | 67 | | 2 | 7 | 500 | | | |
| | | | | | | | | | | | | | | 750 | 100 | | 2.5 | 5 | 750 | | | |
| | | | | | | | | | | | | | | 1000 | 134 | | 2 | 4 | 1000 | | | |
| CDMG35A | 48 | 7.5 | 100 | 82 | 32.6 | 73.2 | M10 | 18 | 34 | 29 | 14 | 9 | 12 | 600 | 80 | 60 | 3 | 9 | 600 | 17.7 | 19 | 11.5 |
| | | | | | | | | | | | | | | 800 | 107 | | 2.5 | 5.5 | 800 | | | |
| | | | | | | | | | | | | | | 1000 | 134 | | 2.5 | 5 | 1000 | | | |
| | | | | | | | | | | | | | | 1300 | 174 | | 2 | 3.5 | 1300 | | | |
| CDMG45A | 60 | 9.5 | 120 | 100 | 42.6 | 91.2 | M12 | 22 | 45 | 38 | 20 | 14 | 17 | 800 | 107 | 60 | 2 | 8 | 800 | 28.1 | 29.7 | 18.2 |
| | | | | | | | | | | | | | | 1000 | 134 | | 3 | 6 | 1000 | | | |
| | | | | | | | | | | | | | | 1200 | 161 | | 2.5 | 5 | 1200 | | | |
| | | | | | | | | | | | | | | 1600 | 214 | | 2 | 4 | 1600 | | | |
| CDMG65A | 90 | 15 | 170 | 142 | 63.4 | 122 | M16 | 37 | 63 | 53 | 26 | 18 | 22 | 1000 | 134 | 60 | 2 | 8 | 1000 | 66.2 | 66.7 | 36.2 |
| | | | | | | | | | | | | | | 1500 | 201 | 60 | 3 | 6 | 1500 | | | |
| | | | | | | | | | | | | | | 1531 | 152 | 45 | 0.5 | 4 | 2000 | | | |
| | | | | | | | | | | | | | | 1913 | 190 | 45 | 1.5 | 3.5 | 2500 | | | |
| | | | | | | | | | | | | | | 1553 | 102 | 30 | 1.5 | 3 | 3000 | | | |

# WH12-57系列
# WH12-60系列

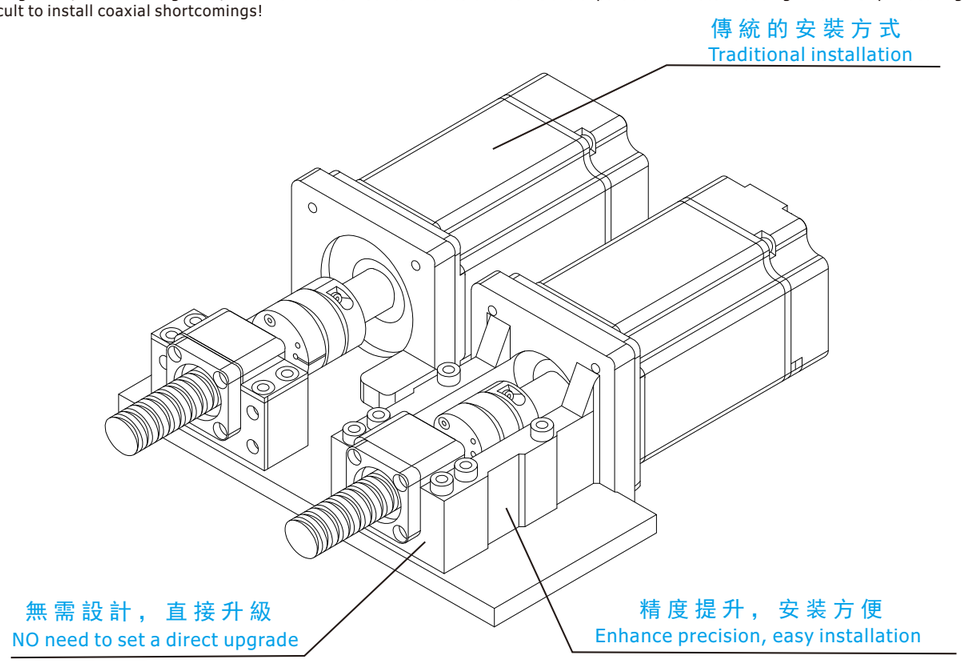
| 項目號 Numbering | 部件名稱/Part Name | 數量 Quantity |
|---|---|---|
| 1 | 傳動座主體/Housing | 1 |
| 2 | 壓盖 /Gland | 1 |
| 3 | 頂圈/Top ring | 2 |
| 4 | 骨架油封/Simmerrings | 2 |
| 5 | 角接觸軸承7001<br>Angular contact benarings 7001 | 1組 |
| 6 | M12X1s鎖緊螺母<br>M12X1s locknut | 1組 |



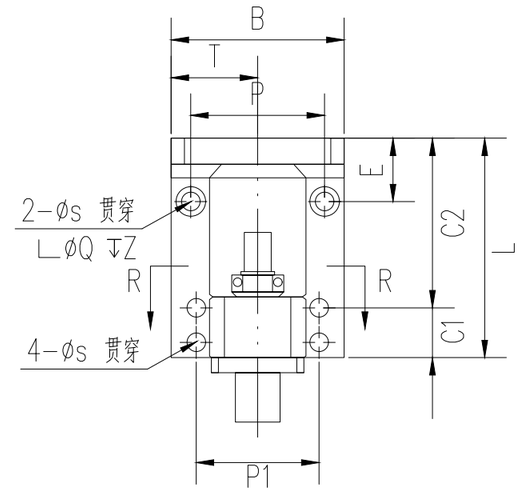
## 特点/Feature

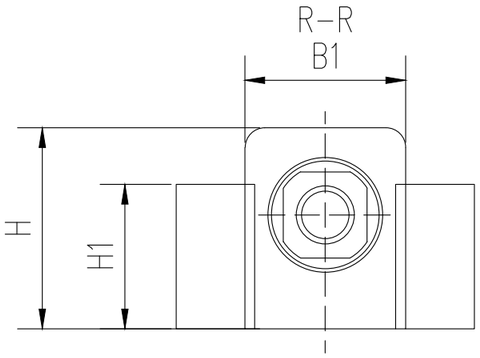
一體化馬達座定位孔與軸承安裝孔采取一體化加工，能最大限度保證馬達軸心/聯軸器軸心/軸承孔軸心/絲杆触心等四位一休，從而克服了分離式馬達座與分離式軸承座聯合安裝時難以同軸的缺點！

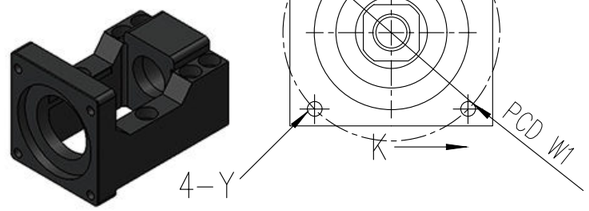
Integrated motor mount positioning holes and the bearing mounting hole take the integration process, to ensure maximum motor shaft/coupling Axial / axial bearing hole / screw axis other four a break to overcome the separation of motor housing when the split bearing joirt is dif ficult to install coaxial shortcomings!

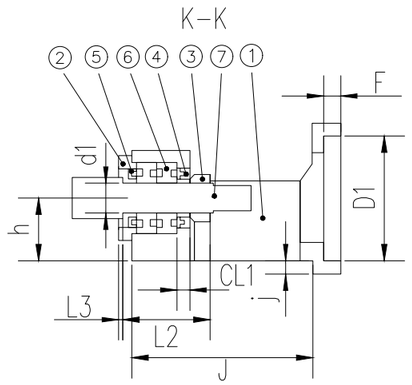





## 选型尺寸表/Selecyion Size Chart

单位:mm

| 型号 MODEL | D1 | W1 | Y | L | h0.02 | B | P | P1 | T | 轴经 | CL1 | L2 | L3 | H | H1 | B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH12-57 | 38.1 | 66.7 | M4 | 89 | 25 | 60 | 46 | 46 | 30 | 12 | 5.5 | 35 | 1.5 | 44 | 37 | 34 |
| WH12-60 | 50 | 70 | M4 | 89 | 25 | 60 | 46 | 46 | 30 | 12 | 5.5 | 35 | 1.5 | 44 | 37 | 34 |

| 型 号 MODEL | S | Q | Z | s | E | C1 | C2 | F | J | j | 重量 weight | 轴承型号 Bearing Type | 支持端 Endsupport | 联轴器 Coupling |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH12-57 | 6.6 | 11 | 2 | 6.6 | 40 | 13 | 70 | 5 | 77 | 5.5 | 0.85 | 7001 | BF12 | 30-42/10-14 |
| WH12-60 | 6.6 | 11 | 2 | 6.6 | 40 | 13 | 70 | 5 | 77 | 5.5 | 0.85 | 7001 | BF12 | 30-42/10-14 |

備註:
1. 使用之軸承經預壓處理，軸向0間隙(All types make preload)
2. 軸承採用P5配對組裝,最適宜滚珠螺捍使用.
(Bearing P5 pairing assembled using the most appropriate ball screw.)


组合传动座

# WH15-57系列
# WH15-60系列

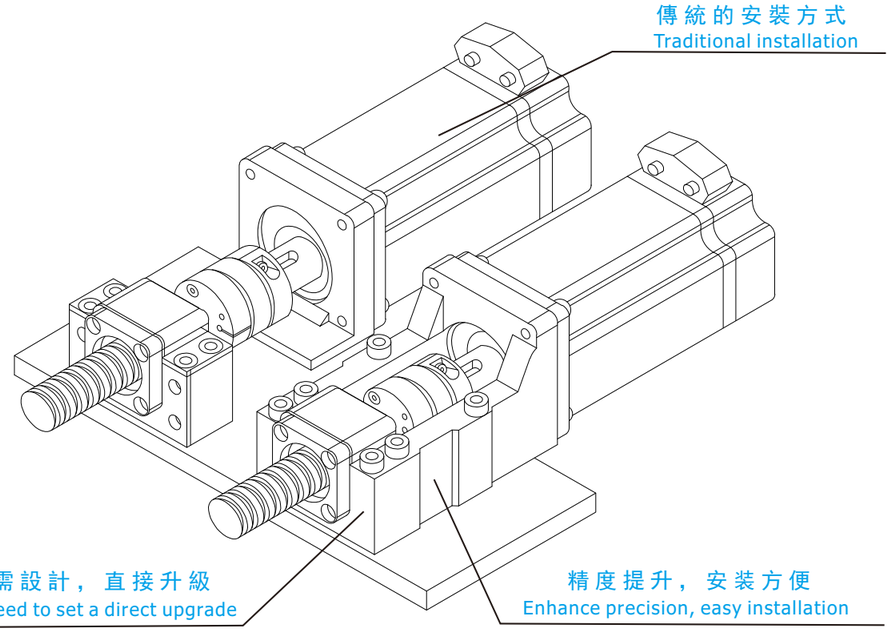
| 項目號 Numbering | 部件名稱/Part Name | 數量 Quantity |
|---|---|---|
| 1 | 傳動座主體/Housing | 1 |
| 2 | 壓蓋 /Gland | 1 |
| 3 | 頂圈/Top ring | 2 |
| 4 | 骨架油封/Simmerrings | 2 |
| 5 | M15X1s鎖緊螺母 M15X1s locknut | 1組 |
| 6 | 角接觸軸承7002 Angular contact benarings 7001 | 1組 |



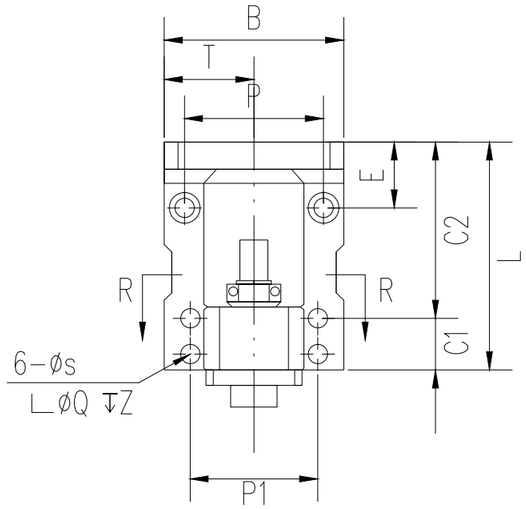
## 特点/Feature

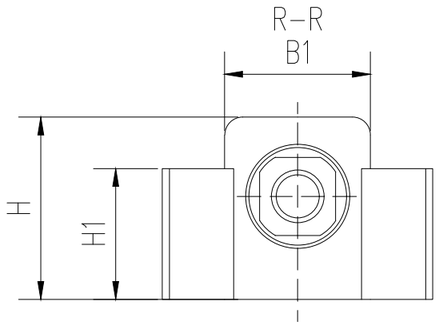
支座組件已安裝,無需再配固定側,安裝簡易化,因此馬達的組裝可通過嵌入部簡單定位.軸心精度良好:在構造上,滾珠絲杠側和馬達側的安裝部形成一體,可抑制兩軸的軸心偏差.專業為伺服、步進電機設計。

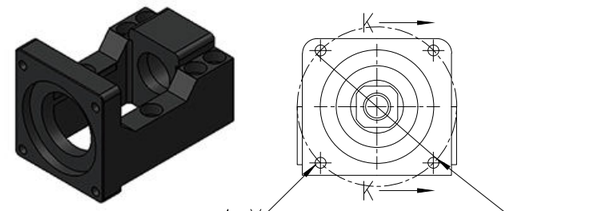
Carriage assembly is nstalldl without adding the fixed side, ease of intallation, thus assembly of the motor can be easily positioned by the embedding section.. good axis accuracy: in construction, ntallation side and motor side ball screw portion formed itegrall inhibit two shaft axis deviation. professional servo, stepper motor design.

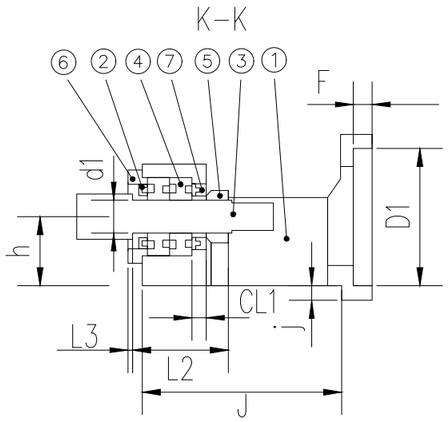





## 选型尺寸表/Selecyion Size Chart

单位:mm

| 型号 MODEL | D1 | W1 | Y | L | h0.02 | B | P | P1 | T | 轴经 | CL1 | L2 | L3 | H | H1 | B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH15-57 | 38.1 | 66.7 | M4 | 98 | 28 | 70 | 58 | 54 | 35 | 15 | 6 | 38 | 3 | 48 | 33 | 41 |
| WH15-60 | 50 | 70 | M4 | 98 | 28 | 70 | 58 | 54 | 35 | 15 | 6 | 38 | 3 | 48 | 33 | 41 |

| 型 号 MODEL | S | Q | Z | E | C1 | C2 | F | J | j | 重量 weight | 轴承型号 Bearing Type | 支持端 Endsupport | 联轴器 Coupling |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH15-57 | 6.6 | 11 | 1 | 32 | 15 | 77 | 6 | 89 | 2 | 1.3 | 7002 | BF15 | 30-42/12-14 |
| WH15-60 | 6.6 | 11 | 1 | 32 | 15 | 77 | 6 | 89 | 2 | 1.3 | 7002 | BF15 | 30-42/12-14 |

備註:
1.使用之軸承經預壓處理，軸向0間隙(All types make preload)
2.軸承採用P5配對組裝,最適宜滾珠螺捍使用.
(Bearing P5 pairing assembled using the most appropriate ball screw.)

# WH15-80系列
# WH15-86系列

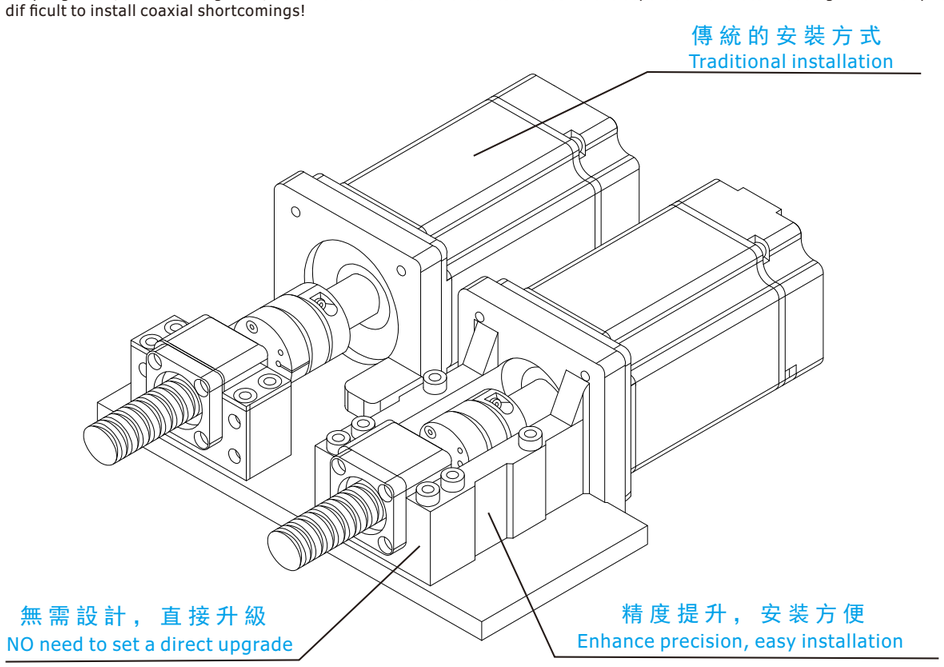
| 項目號 Numbering | 部件名稱/Part Name | 數量 Quantity |
|---|---|---|
| 1 | 傳動座主體/Housing | 1 |
| 2 | 壓蓋 /Gland | 1 |
| 3 | 頂圈/Top ring | 2 |
| 4 | 骨架油封/Simmerrings | 2 |
| 5 | 角接觸軸承7002<br>Angular contact benarings 7002 | 1組 |
| 6 | M15X1s鎖緊螺母<br>M15X1s locknut | 1組 |



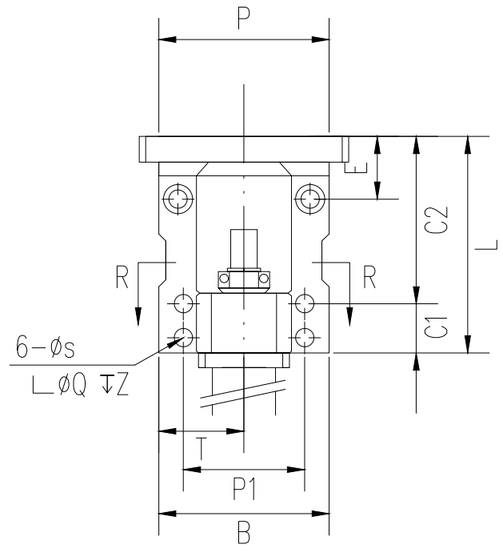
## 特点/Feature

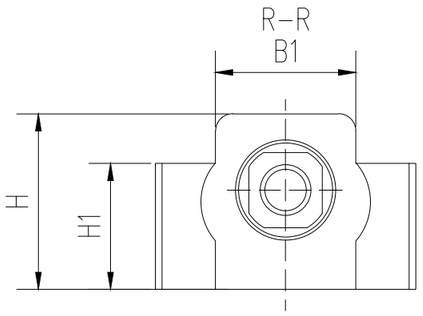
一體化馬達座定位孔與軸承安裝孔采取一體化加工,能最大限度保證馬達軸心/聯軸器軸心/軸承孔軸心/絲杆触心等四位一休，從而克服了分離式馬達座與分離式軸承座聯合安裝時難以同軸的缺點！

Integrated motor mount positioning holes and the bearing mounting hole take the integration process, to ensure maximum motor shaft/coupling Axial / axial bearing hole / screw axis other four a break to overcome the separation of motor housing when the split bearing joirt is dif ficult to install coaxial shortcomings!

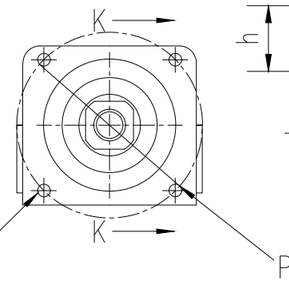


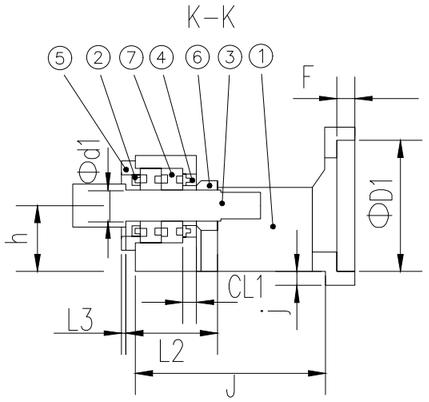





## 选型尺寸表/Selecyion Size Chart

单位:mm

| 型号 MODEL | D1 | W1 | Y | L | h0.02 | B | P | P1 | T | 轴经d1 | CL1 | L2 | L3 | H | H1 | B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH15-80 | 70 | 90 | M6 | 108 | 28 | 70 | 58 | 54 | 35 | 15 | 6 | 38 | 3 | 48 | 39 | 41 |
| WH15-86 | 73 | 98.4 | M6 | 108 | 28 | 70 | 58 | 54 | 35 | 15 | 6 | 38 | 3 | 48 | 39 | 41 |

| 型 号 MODEL | S | Q | Z | E | C1 | C2 | F | J | j | 重量 weight | 轴承型号 Bearing Type | 支持端 Endsupport | 联轴器 Coupling |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH15-80 | 6.6 | 11 | 1 | 42 | 15 | 87 | 6 | 97 | 15 | 1.6 | 7002 | BF15 | 40-50/12-19 |
| WH15-86 | 6.6 | 11 | 1 | 42 | 15 | 87 | 6 | 97 | 15 | 1.6 | 7002 | BF15 | 40-50/12-19 |

備註:
1. 使用之軸承經預壓處理，軸向0間隙(All types make preload)
2. 軸承採用P5配對組裝,最適宜滚珠螺捍使用.
(Bearing P5 pairing assembled using the most appropriate ball screw.)

# WH20-80系列
# WH20-86系列

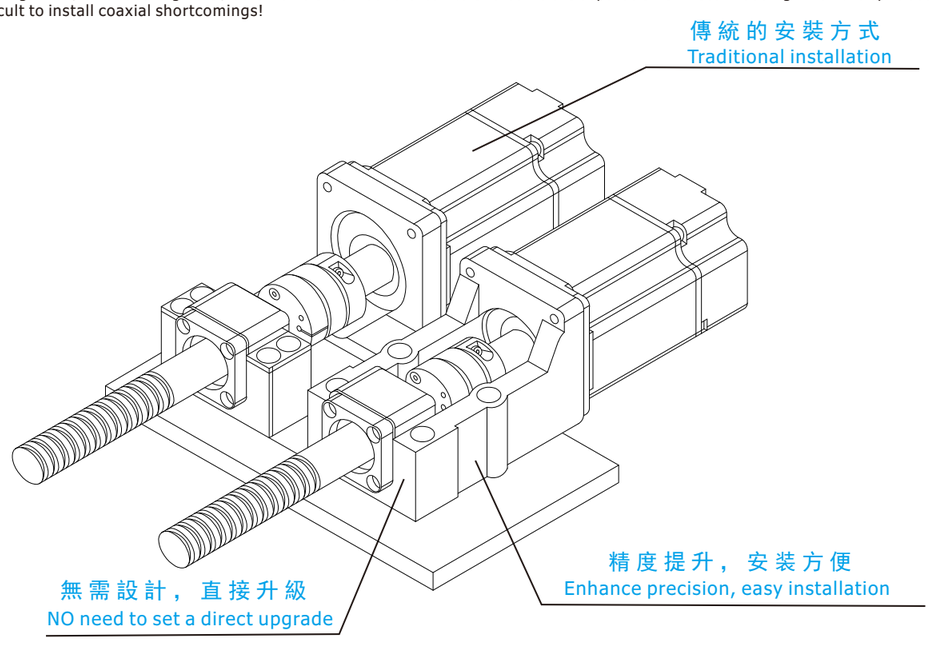
| 項目號 Numbering | 部件名稱/Part Name | 數量 Quantity |
|---|---|---|
| 1 | 傳動座主體/Housing | 1 |
| 2 | 壓蓋 /Gland | 1 |
| 3 | 頂圈/Top ring | 2 |
| 4 | 骨架油封/Simmerrings | 2 |
| 5 | M20X1s鎖緊螺母 M20X1s locknut | 1組 |
| 6 | 角接觸軸承7004 Angular contact benarings 7004 | 1組 |



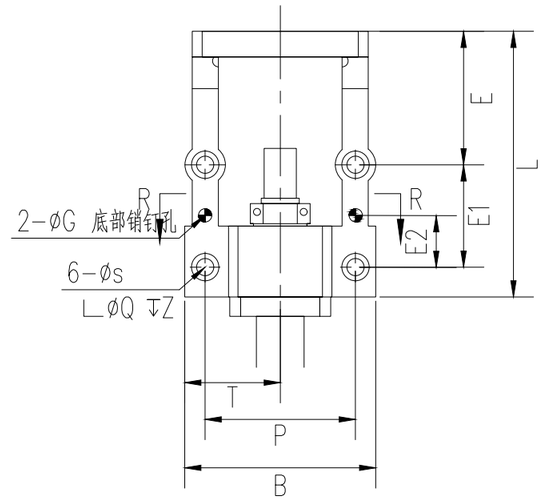
## 特点/Feature

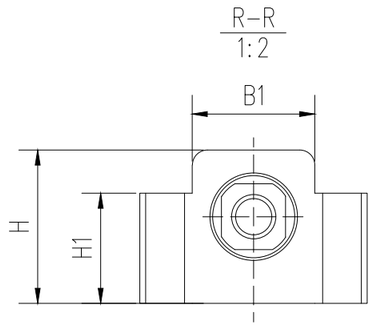
一體化馬達座定位孔與軸承安裝孔采取一體化加工,能最大限度保證馬達軸心/聯軸器軸心/軸承孔軸心/絲杆触心等四位一休，從而克服了分離式馬達座與分離式軸承座聯合安裝時難以同軸的缺點！

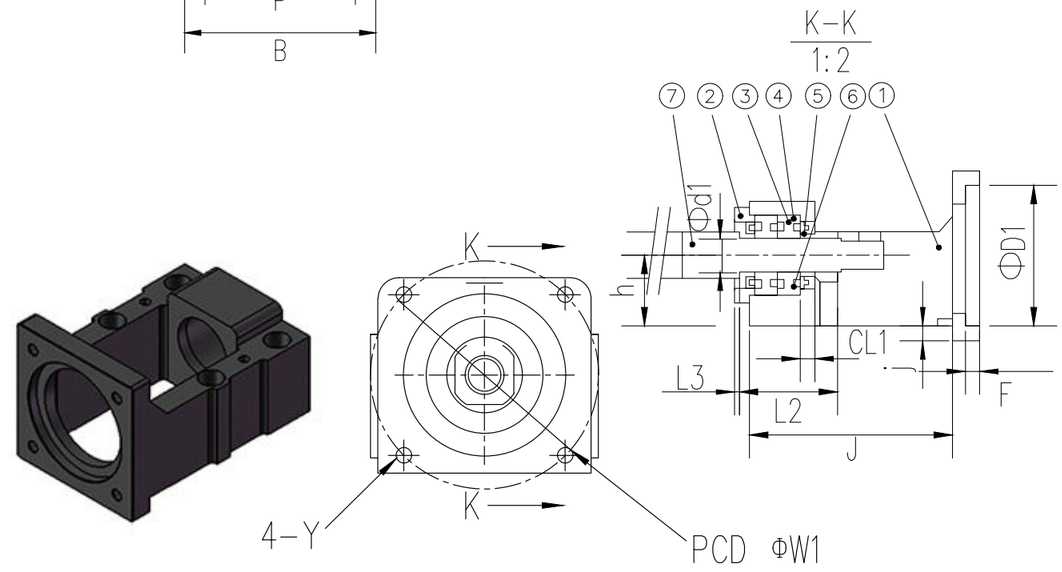
Integrated motor mount positioning holes and the bearing mounting hole take the integration process, to ensure maximum motor shaft/coupling Axial / axial bearing hole / screw axis other four a break to overcome the separation of motor housing when the split bearing joirt is dif ficult to install coaxial shortcomings!






## 选型尺寸表/Selecyion Size Chart

单位:mm

| 型号 MODEL | D1 | W1 | Y | L | h0.02 | B | P | T | 轴经 | CL1 | L2 | L3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH20-80 | 70 | 90 | M6 | 131 | 34 | 95 | 75 | 47.5 | 20 | 8 | 51 | 4 |
| WH20-86 | 73 | 98.4 | M6 | 131 | 34 | 95 | 75 | 47.5 | 20 | 8 | 51 | 4 |

| 型 号 MODEL | H | H1 | B1 | S | Q | Z | E | E1 | E2 | G | F | J | j | 重量 weight | 轴承型号 Bearing Type | 支持端 Endsupport | 联轴器 Coupling |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH20-80 | 60 | 50 | 52 | 8.5 | 14 | 10 | 66 | 50 | 25 | 6 | 6 | 118 | 10 | 2.6 | 7004 | BF20 | 40-55/17-19 |
| WH20-86 | 60 | 50 | 52 | 8.5 | 14 | 10 | 66 | 50 | 25 | 6 | 6 | 118 | 10 | 2.6 | 7004 | BF20 | 40-55/17-19 |

備註:
1. 使用之軸承經預壓處理，軸向0間隙(All types make preload)
2. 軸承採用P5配對組裝,最適宜滾珠螺捍使用.
(Bearing P5 pairing assembled using the most appropriate ball screw.)

# WH20–110系列
# WH25–110系列

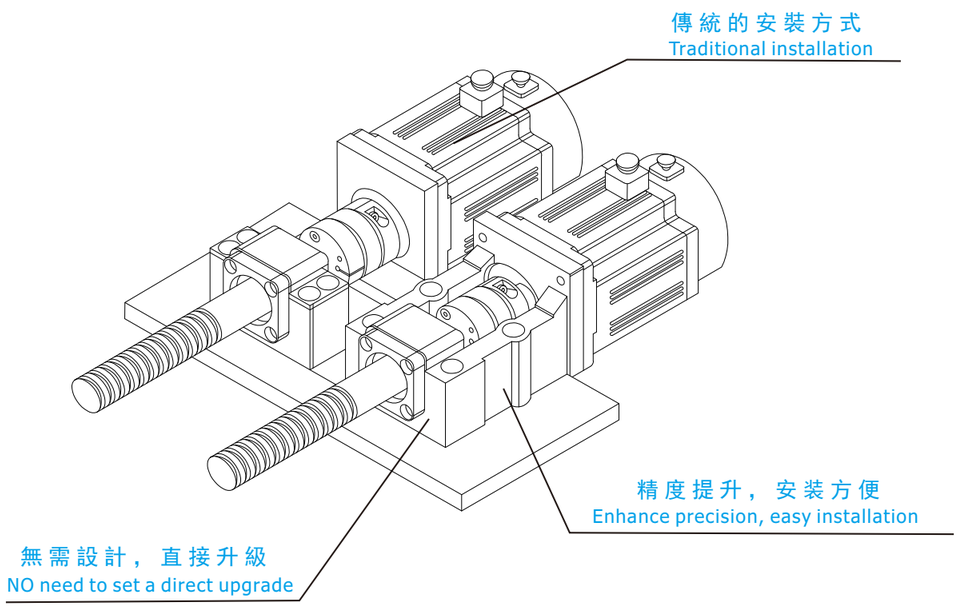
| 項目號 Numbering | 部件名稱/Part Name | 數量 Quantity |
|---|---|---|
| 1 | 傳動座主體/Housing | 1 |
| 2 | 骨架油封/Simmerrings | 2 |
| 3 | 角接觸軸承 Angular contact benarings | 1組 |
| 4 | 壓蓋/Gland | 1 |
| 5 | 頂圈/Top ring | 2 |
| 6 | 鎖緊螺母 locknut | 1組 |



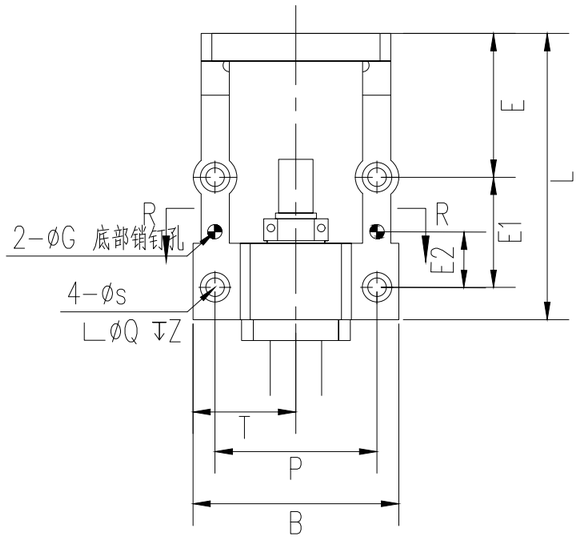
## 特点/Feature

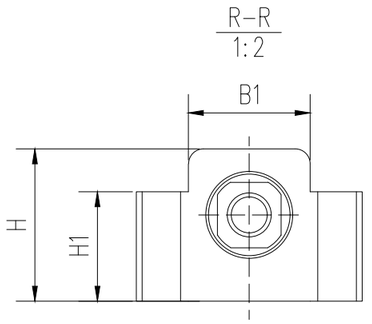
一體化馬達座定位孔與軸承安裝孔采取一體化加工,能最大限度保證馬達軸心/聯軸器軸心/軸承孔軸心/絲杆触心等四位一体，從而克服了分離式馬達座與分離式軸承座聯合安裝時難以同軸的缺點！

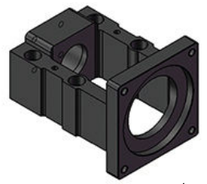
Integrated motor mount positioning holes and the bearing mounting hole take the integration process, to ensure maximum motor shaft/coupling Axial / axial bearing hole / screw axis other four a break to overcome the separation of motor housing when the split bearing joirt is dif ficult to install coaxial shortcomings!

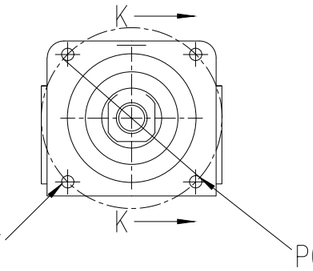


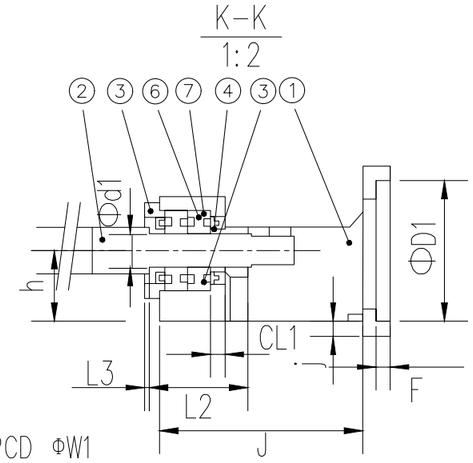





## 选型尺寸表/Selecyion Size Chart

单位:mm

| 型号 MODEL | D1 | W1 | Y | L | h0.02 | B | P | T | 轴经d1 | CL1 | L2 | L3 | H | H1 | B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH20–110 | 95 | 130 | M8 | 150 | 34 | 106 | 85 | 53 | 20 | 8 | 57 | 4 | 66 | 56 | 64 |
| WH25–110 | 95 | 130 | M8 | 151 | 48 | 106 | 85 | 53 | 25 | 9 | 63 | 6 | 80 | 70 | 64 |

| 型 号 MODEL | S | Q | Z | E | E1 | E2 | G | F | i | J | 重量 weight | 轴承型号 Bearing Type | 支持端 Endsupport | 联轴器 Coupling |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH20–110 | 11 | 17 | 12 | 69 | 60 | 30 | 6 | 8 | 7 | 134 | 3.6 | 7004 | BF20 | 40–55/17–19 |
| WH25–110 | 11 | 17 | 12 | 72 | 60 | 30 | 6 | 8 | 7 | 134 | 4.5 | 7205 | BF25 | 45–66/20–19 |

備註:
1. 使用之軸承經預壓處理，軸向0間隙(All types make preload)
2. 軸承採用P5配對組裝,最適宜滾珠螺捍使用.
(Bearing P5 pairing assembled using the most appropriate ball screw.)

# WH20–130系列
# WH25–130系列
# WH30–130系列

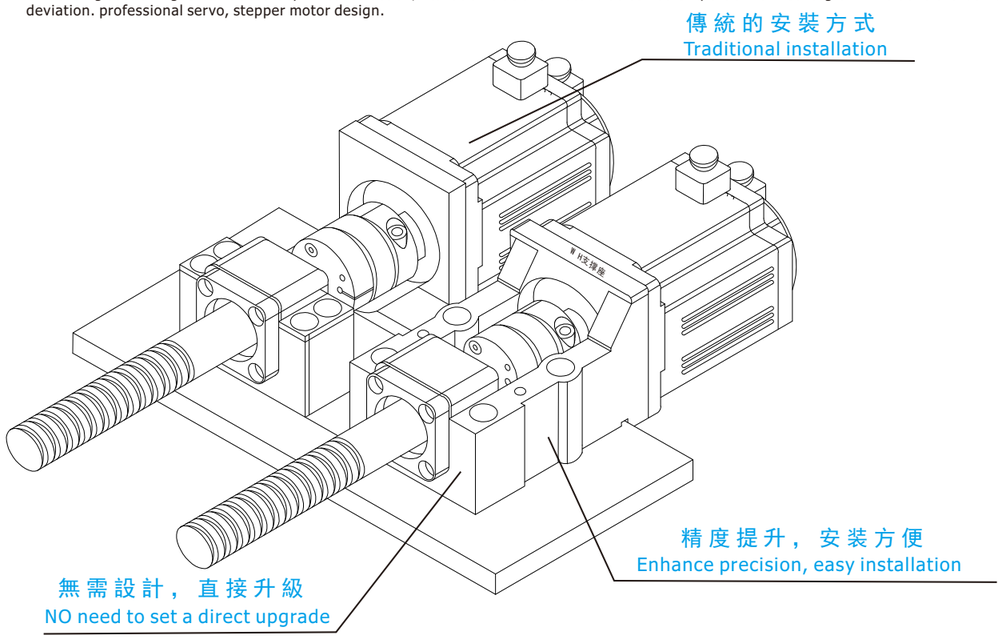
| 項目號 Numbering | 部件名稱/Part Name | 數量 Quantity |
|---|---|---|
| 1 | 傳動座主體/Housing | 1 |
| 2 | 骨架油封/Simmerrings | 2 |
| 3 | 角接觸軸承 Angular contact benarings | 1組 |
| 4 | 壓蓋/Gland | 1 |
| 5 | 頂圈/Top ring | 2 |
| 6 | 鎖緊螺母 locknut | 1組 |

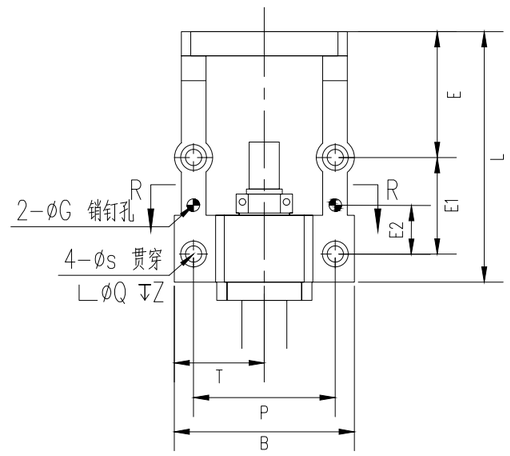


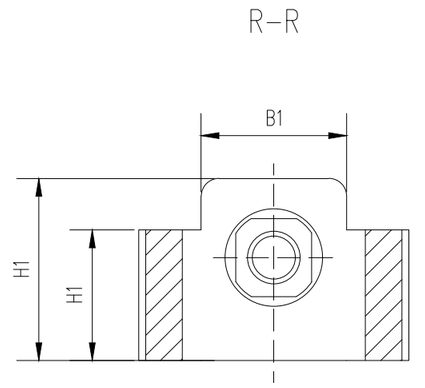
## 特点/Feature

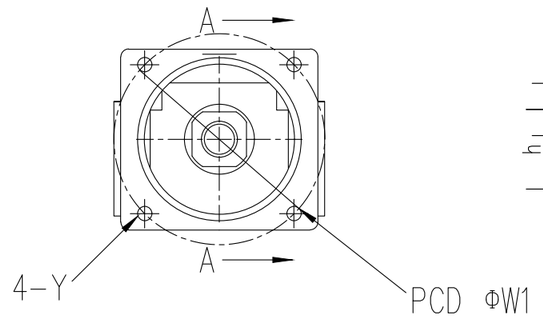
支座組件已安装,無需再配固定側,安装簡易化,因此馬達的組裝可通過嵌入部簡單定位.軸心精度良好:在構造上,滚珠絲杠側和馬達側的安裝部形成一體,可抑制兩軸的軸心偏差.專業為伺服、步進電機設計。

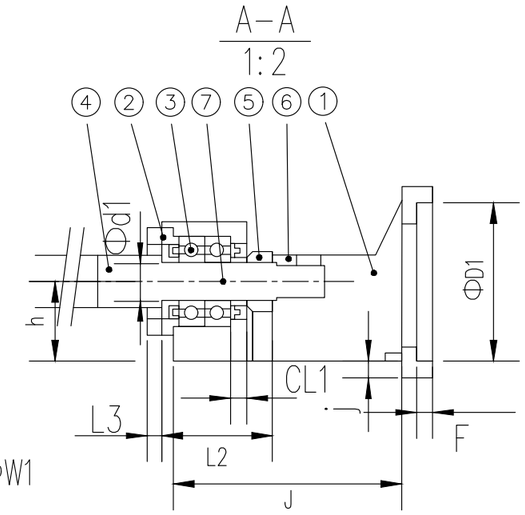
Carriage assembly is nstalldl without adding the fixed side, ease of intallation, thus assembly of the motor can be easily positioned by the embedding section.. good axis accuracy: in construction, ntallation side and motor side ball screw portion formed itegrall inhibit two shaft axis deviation. professional servo, stepper motor design.




## 选型尺寸表/Selecyion Size Chart

单位:mm

| 型号 MODEL | D1 | W1 | Y | L | h0.02 | B | P | T | 轴经d1 | CL1 | L2 | L3 | H | H1 | B1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH20–130 | 110 | 145 | M8 | 150 | 34 | 106 | 85 | 53 | 20 | 8 | 57 | 4 | 66 | 56 | 64 |
| WH25–130 | 110 | 145 | M8 | 150 | 48 | 140 | 115 | 70 | 25 | 9 | 63 | 6 | 80 | 71 | 65 |
| WH30–130 | 100 | 145 | M8 | 175 | 51 | 140 | 115 | 70 | 30 | 9 | 70 | 9 | 88 | 74 | 77 |

| 型 号 MODEL | S | Q | Z | E | E1 | E2 | G | F | j | J | 重量 weight | 轴承型号 Bearing Type | 支持端 Endsupport | 联轴器 Coupling |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WH20–130 | 11 | 17 | 12 | 70 | 60 | 30 | 6 | 10 | 31 | 128 | 4.5 | 7004 | BF20 | 40–55/17–22 |
| WH25–130 | 13 | 20 | 10 | 84 | 60 | 30 | 8 | 10 | 18 | 143 | 6.5 | 7205 | BF25 | 40–66/20–22 |
| WH30–130 | 13 | 20 | 10 | 94 | 60 | 30 | 8 | 10 | 14 | 153 | 6.8 | 7206 | BF30 | 55–70/25–22 |

備註:
1.使用之軸承經預壓處理，軸向0間隙(All types make preload)
2軸承採用P5配對組裝,最適宜滚珠螺捍使用.
(Bearing P5 pairing assembled using the most appropriate ball screw.)

# 電機絲杆傳動座

Motor Ballscrews bearing Kit



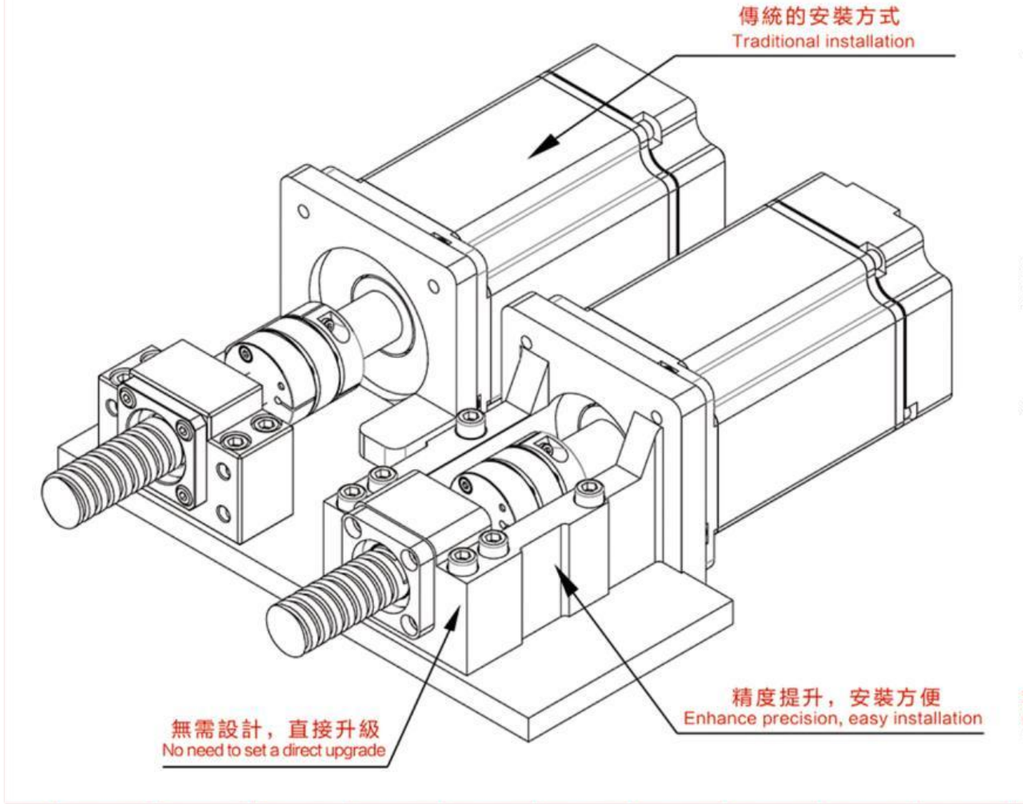
滾珠絲杆副的傳動端固定

Purpose:Fixation of Ballscrew

MBK IT

# MBK型絲杆電機傳動座

MBK screw motor drive base



## 电机座 MBK10-57 MBK12-57 MBK10-60 MBK12-60

# MBK10-57
# MBK12-57

適配電機型號：57步進電機
Adaptive motor model: 57 stepping motor

# MBK10-60
# MBK12-60

適配電機型號：60–400w伺服電機
Adaptive motor model: 60-400w servo motor



| 內含部件：Included parts: | 座體 seat/base | 軸承 bearing | 軸承壓蓋 bearing gland | 密封圈 sealing ring | 磨制墊圈 washer | F型鎖緊螺母 locking nut |
|---|---|---|---|---|---|---|
| 內含數量：QTY: | 1<br>1pc | 1組<br>1set | 1<br>1pc | 2<br>2pcs | 2<br>2pcs | 1<br>1pc |

### 特点/Features

一體化馬達座定位孔與軸承安裝孔采取一體化加工，能最大限度保證馬達軸心/聯軸器軸心/軸承孔軸心/絲杆軸心等四位一休，從而克服了分離式馬達座與分離式軸承座聯合安裝時以同軸的缺點!

軸承軸心與座體安裝基面平行度達到0.01/100，保證絲杆安裝後的平行度。

Integrated motor mount positioning holes and the bearing mounting hole take the integration process,to ensure maximum motor shaft/coupling Axial/axial bearing hole/screw axis other four a break to overcome the separation of motor housing when the split bearing joint is difficult to install coaxial shortcomings!

The parallelism between bearing shaft and mounting surface of the base reaches 0.01/100, to ensure the parallelism of screw rod after installation

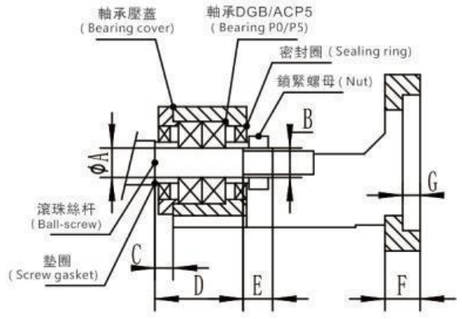
### 技术参数/Technical parameter

| 型號 ( model ) | 電機安裝孔與軸承安裝孔同軸度 ( concentricity ) | 軸心與底面平行度 ( parallelism ) | 座體材質 ( Texture of material ) | 重量 ( weight ) | 適配聯軸器 Adapted coupling |
|---|---|---|---|---|---|
| MBK10-57 | 0.005 | 0.01/100 | HT250 | 0.8 | ϕ 30*35 |
| MBK10-60 | 0.005 | 0.01/100 | HT250 | 0.8 | ϕ 30*35 |
| MBK12-57 | 0.005 | 0.01/100 | HT250 | 0.8 | ϕ 30*35 |
| MBK12-60 | 0.005 | 0.01/100 | HT250 | 0.8 | ϕ 30*35 |

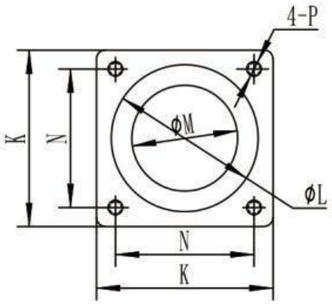
## Motor Mount MBK0-57 MBK12-57 MBK10-60 MBK12-60

### 尺寸参数/Dimensional parameters

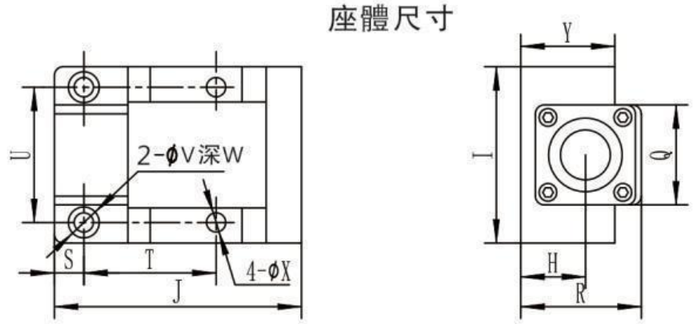
建議絲杆尺寸




電機安裝尺寸




座體尺寸




建議絲杆尺寸 ( Ball-screw size)　　電機安裝尺寸 ( Installation Dimension of motor)　　單位 ( unit ) : mm

| 型號 ( model ) | ϕ A-0.015 | B | C | D | E | F | G | ϕ M | ϕ L+0.03 | N | K | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK10-57 | 10 | M10*1 | 6.2 | 30 | 10 | 10 | 5 | 36 | 38.1 | 47.1 | 60 | M4 |
| MBK10-60 | 10 | M10*1 | 6.2 | 30 | 10 | 10 | 5 | 36 | 50 | 49.5 | 60 | M5 |
| MBK12-57 | 12 | M12*1 | 6.2 | 30 | 10 | 12 | 5 | 36 | 38.1 | 47.1 | 60 | M4 |
| MBK12-60 | 12 | M12*1 | 6.2 | 30 | 10 | 12 | 5 | 36 | 50 | 49.5 | 60 | M5 |

座體尺寸 (Seat size)

| 型號 ( model ) | H±0.01 | I | J | Q | R | S | T | U | ϕ V | W | ϕ X通 | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK10-57 | 22 | 60 | 84 | 35 | 41 | 10 | 45 | 46 | 11 | 6.5 | 6.6 | 35 |
| MBK10-60 | 22 | 60 | 84 | 35 | 41 | 10 | 45 | 46 | 11 | 6.5 | 6.6 | 35 |
| MBK12-57 | 25 | 60 | 86 | 35 | 43 | 10 | 45 | 46 | 11 | 6.5 | 6.6 | 35 |
| MBK12-60 | 25 | 60 | 86 | 35 | 43 | 10 | 45 | 46 | 11 | 6.5 | 6.6 | 35 |
| | | | | 6孔 | S | S2 | T | U | | | | |
| | | | | | 6 | 13 | 30 | 46 | | | | |

備注：

1.使用之軸承經預壓處理，軸向0間隙 ( All types make preload )

2.軸承采用P5配對組裝，最適宜滾珠螺杆使用。

( Bearing P5 pairing assembled using the most appropriate ball screw. )

## 电机座 MBK15-57 MBK15-60 MBK15-80 MBK15-86 MBK15-90

### MBK15-57
適配電機型號：57步進電機
Adaptive motor model: 57 stepping motor

### MBK15-60
適配電機型號：60–400w伺服電機
Adaptive motor model: 60-400w servo motor

### MBK15-80
適配電機型號：80–750w伺服電機
Adaptive motor model: 80-750w servo motor

### MBK15-86
適配電機型號：86步進電機
Adaptive motor model: 86 stepping motor

### MBK15-90
適配電機型號：90伺服電機/90減速機
Adaptive motor model: 90 servo motor/90 reducer



| 內含部件：Included parts: | 座體 seat/base | 軸承 bearing | 軸承壓蓋 bearing gland | 密封圈 sealing ring | 磨制墊圈 washer | F型鎖緊螺母 locking nut |
|---|---|---|---|---|---|---|
| 內含數量：QTY: | 1<br>1pc | 1組<br>1set | 1<br>1pc | 2<br>2pcs | 2<br>2pcs | 1<br>1pc |

**特点/Features**

一體化馬達座定位孔與軸承安裝孔采取一體化加工，能最大限度保證馬達軸心/聯軸器軸心/軸承孔軸心/絲杆軸心等四位一休，從而克服了分離式馬達座與分離式軸承座聯合安裝時以同軸的缺點!

軸承軸心與座體安裝基面平行度達到0.01/100，保證絲杆安裝後的平行度。

Integrated motor mount positioning holes and the bearing mounting hole take the integration process,to ensure maximum motor shaft/coupling Axial/axial bearing hole/screw axis other four a break to overcome the separation of motor housing when the split bearing joint is difficult to install coaxial shortcomings!

The parallelism between bearing shaft and mounting surface of the base reaches 0.01/100, to ensure the parallelism of screw rod after installation

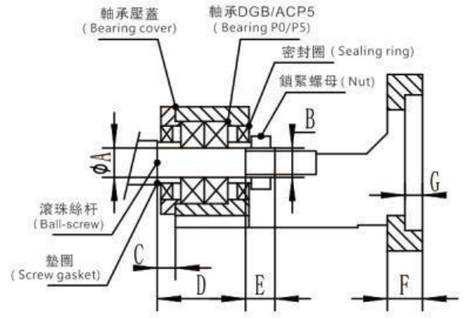
**技术参数/Technical parameter**

| 型號 ( model ) | 電機安裝孔與軸承安裝孔同軸度 ( concentricity ) | 軸心與底面平行度 ( parallelism ) | 座體材質 ( Texture of material ) | 重量 ( weight ) | 適配聯軸器 Adapted coupling |
|---|---|---|---|---|---|
| MBK15-57 | 0.005 | 0.01/100 | HT250 | 1.2 | ϕ 30*40 |
| MBK15-60 | 0.005 | 0.01/100 | HT250 | 1.2 | ϕ 30*40 |
| MBK15-80 | 0.005 | 0.01/100 | HT250 | 1.4 | ϕ 35*50 |
| MBK15-86 | 0.005 | 0.01/100 | HT250 | 1.4 | ϕ 35*50 |
| MBK15-90 | 0.005 | 0.01/100 | HT250 | 1.4 | ϕ 35*50 |

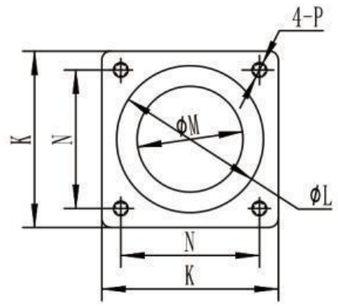
## Motor Mount MBK15-57 MBK15-60 MBK15-80 MBK15-86 MBK15-90

**尺寸参数/Dimensional parameters**

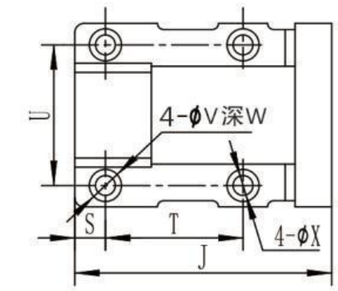
建議絲杆尺寸

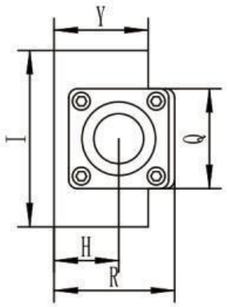



電機安裝尺寸




座體尺寸




建議絲杆尺寸 ( Ball-screw size)　　電機安裝尺寸 ( Installation Dimension of motor)　　單位 ( unit ) : mm

| 型號 ( model ) | ϕ A-0.01 | B | C | D | E | F | G | ϕ M | ϕ L+0.03 | N | K | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK15-57 | 15 | M15*1 | 6.2 | 32 | 10 | 12 | 5 | 38 | 38.1 | 47.1 | 57 | M4 |
| MBK15-60 | 15 | M15*1 | 6.2 | 32 | 10 | 12 | 5 | 38 | 50 | 49.5 | 60 | M5 |
| MBK15-80 | 15 | M15*1 | 6.2 | 35 | 10 | 12 | 5 | 46 | 70 | 63.6 | 80 | M6 |
| MBK15-86 | 15 | M15*1 | 6.2 | 35 | 10 | 12 | 5 | 46 | 73 | 69.6 | 86 | M6 |
| MBK15-90 | 15 | M15*1 | 6.2 | 35 | 10 | 12 | 5 | 46 | 80 | 70.9 | 86 | M6 |

座體尺寸 (Seat size)

| 型號 ( model ) | H±0.01 | I | J | Q | R | S | T | U | ϕ V | W | ϕ X通 | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK15-57 | 28 | 70 | 97 | 40 | 49 | 12 | 50 | 56 | 11 | 6.5 | 6.6 | 39 |
| MBK15-60 | 28 | 70 | 97 | 40 | 49 | 12 | 50 | 56 | 11 | 6.5 | 6.6 | 39 |
| MBK15-80 | 28 | 70 | 106 | 40 | 49 | 12 | 55 | 58 | 11 | 6.5 | 6.6 | 39 |
| MBK15-86 | 28 | 70 | 106 | 40 | 49 | 12 | 55 | 58 | 11 | 6.5 | 6.6 | 39 |
| MBK15-90 | 28 | 70 | 106 | 40 | 49 | 12 | 55 | 58 | 11 | 6.5 | 6.6 | 39 |
| | | | | 6孔 | S | S2 | T | U | | | | |
| | | | | | 6 | 15 | 45 | 前54/后58 | | | | |

備注：

1.使用之軸承經預壓處理，軸向0間隙 ( All types make preload )

2.軸承采用P5配對組裝，最適宜滾珠螺杆使用。

( Bearing P5 pairing assembled using the most appropriate ball screw. )

## 电机座 MBK17-80 MBK20-80 MBK17-86 MBK15-86 MBK20-90

### MBK17-80
### MBK20-80

適配電機型號：80–750w伺服電機
Adaptive motor model: 80-750w servo motor

### MBK17-86
### MBK20-86

適配電機型號：86步進電機
Adaptive motor model: 86 stepping motor

### MBK20-90

適配電機型號：90伺服電機/90減速機
Adaptive motor model:90 servo motor/90 reducer



| 內含部件：Included parts: | 座體 seat/base | 軸承 bearing | 軸承壓蓋 bearing gland | 密封圈 sealing ring | 磨制墊圈 washer | F型鎖緊螺母 locking nut |
|---|---|---|---|---|---|---|
| 內含數量：QTY: | 1 1pc | 1組 1set | 1 1pc | 2 2pcs | 2 2pcs | 1 1pc |

### 特点/Features

一體化馬達座定位孔與軸承安裝孔采取一體化加工，能最大限度保證馬達軸心/聯軸器軸心/軸承孔軸心/絲杆軸心等四位一休，從而克服了分離式馬達座與分離式軸承座聯合安裝時以同軸的缺點!

軸承軸心與座體安裝基面平行度達到0.01/100，保證絲杆安裝後的平行度。

Integrated motor mount positioning holes and the bearing mounting hole take the integration process,to ensure maximum motor shaft/coupling Axial/axial bearing hole/screw axis other four a break to overcome the separation of motor housing when the split bearing joint is difficult to install coaxial shortcomings!

The parallelism between bearing shaft and mounting surface of the base reaches 0.01/100, to ensure the parallelism of screw rod after installation

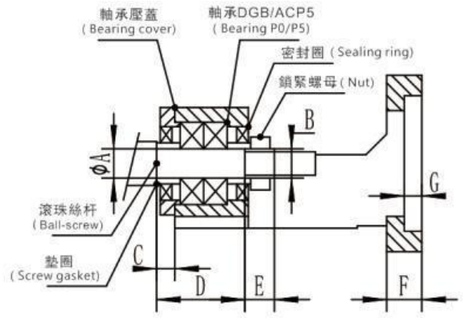
### 技术参数/Technical parameter

| 型號 ( model ) | 電機安裝孔與軸承安裝孔同軸度 ( concentricity ) | 軸心與底面平行度 ( parallelism ) | 座體材質 ( Texture of material ) | 重量 ( weight ) | 適配聯軸器 Adapted coupling |
|---|---|---|---|---|---|
| MBK17-80 | 0.005 | 0.01/100 | HT250 | 2.3 | ϕ 40*55 |
| MBK17-86 | 0.005 | 0.01/100 | HT250 | 2.3 | ϕ 40*55 |
| MBK20-80 | 0.005 | 0.01/100 | HT250 | 2.3 | ϕ 40*55 |
| MBK20-86 | 0.005 | 0.01/100 | HT250 | 2.3 | ϕ 40*55 |
| MBK20-90 | 0.005 | 0.01/100 | HT250 | 2.3 | ϕ 40*55 |

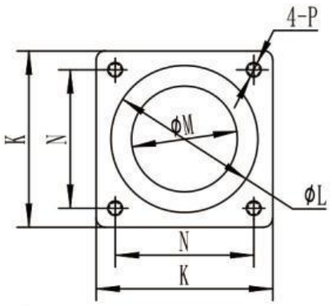
## Motor Mount MBK17-80 MBK20-80 MBK17-86 MBK15-86 MBK20-90

### 尺寸参数/Dimensional parameters

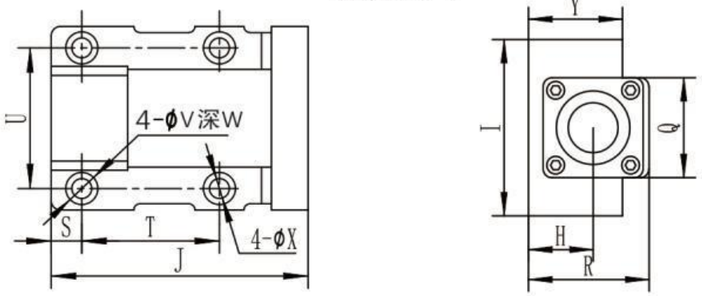
建議絲杆尺寸




電機安裝尺寸




座體尺寸




建議絲杆尺寸 ( Ball-screw size)　　電機安裝尺寸 ( Installation Dimension of motor)　　單位 ( unit ) : mm

| 型號 ( model ) | ϕ A-0.01 | B | C | D | E | F | G | ϕ M | ϕ L+0.03 | N | K | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK17-80 | 17 | M17*1 | 10.2 | 43 | 15 | 13 | 5 | 54 | 70 | 63.6 | 80 | M6 |
| MBK17-86 | 17 | M17*1 | 10.2 | 43 | 15 | 13 | 5 | 54 | 73 | 69.6 | 86 | M6 |
| MBK20-80 | 20 | M20*1 | 10.2 | 43 | 15 | 13 | 5 | 47 | 70 | 63.6 | 80 | M6 |
| MBK20-86 | 20 | M20*1 | 10.2 | 43 | 15 | 13 | 5 | 47 | 73 | 69.6 | 86 | M6 |
| MBK20-90 | 20 | M20*1 | 10.2 | 43 | 15 | 13 | 5 | 47 | 80 | 70.9 | 86 | M6 |

座體尺寸 (Seat size)

| 型號 ( model ) | H±0.01 | I | J | Q | R | S | T | U | ϕ V | W | ϕ X通 | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK17-80 | 39 | 86 | 118 | 55 | 67 | 12 | 60 | 70 | 14 | 8.5 | 9 | 48 |
| MBK17-86 | 39 | 86 | 118 | 55 | 67 | 12 | 60 | 70 | 14 | 8.5 | 9 | 48 |
| MBK20-80 | 34 | 86 | 118 | 50 | 59 | 12 | 60 | 68 | 14 | 8.5 | 9 | 43 |
| MBK20-86 | 34 | 86 | 118 | 50 | 59 | 12 | 60 | 68 | 14 | 8.5 | 9 | 43 |
| MBK20-90 | 34 | 86 | 118 | 50 | 59 | 12 | 60 | 68 | 14 | 8.5 | 9 | 43 |

| 6孔 | S | S2 | T | U |
|---|---|---|---|---|
| MBK17 | 8 | 19 | 45 | 68 |
| MBK20 | 8 | 19 | 45 | 70 |

備注：

1.使用之軸承經預壓處理，軸向0間隙 ( All types make preload )

2.軸承采用P5配對組裝，最適宜滾珠螺杆使用。

( Bearing P5 pairing assembled using the most appropriate ball screw. )

## 电机座 MBK17-110 MBK20-110 MBK25-110 MBK20-130 MBK25-130

# MBK17-110
# MBK20-110
# MBK25-110

適配電機型號：110伺服/步進電機

Adapted motor model: 110 servo/stepping motor

# MBK20-130
# MBK25-130
# MBK25B-130

適配電機型號：130伺服電機

Adaptive motor model: 130 servo motor



| 內含部件：Included parts: | 座體 seat/base | 軸承 bearing | 軸承壓蓋 bearing gland | 密封圈 sealing ring | 磨制墊圈 washer | F型鎖緊螺母 locking nut |
|---|---|---|---|---|---|---|
| 內含數量：QTY: | 1 1pc | 1組 1set | 1 1pc | 2 2pcs | 2 2pcs | 1 1pc |

### 特点/Features

一體化馬達座定位孔與軸承安裝孔采取一體化加工，能最大限度保證馬達軸心/聯軸器軸心/軸承孔軸心/絲杆軸心等四位一休，從而克服了分離式馬達座與分離式軸承座聯合安裝時以同軸的缺點!

軸承軸心與座體安裝基面平行度達到0.01/100，保證絲杆安裝後的平行度。

Integrated motor mount positioning holes and the bearing mounting hole take the integration process,to ensure maximum motor shaft/coupling Axial/axial bearing hole/screw axis other four a break to overcome the separation of motor housing when the split bearing joint is difficult to install coaxial shortcomings!

The parallelism between bearing shaft and mounting surface of the base reaches 0.01/100, to ensure the parallelism of screw rod after installation

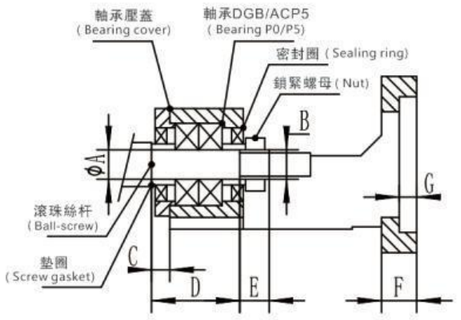
### 技术参数/Technical parameter

| 型號 ( model ) | 電機安裝孔與軸承安裝孔同軸度 ( concentricity ) | 軸心與底面平行度 ( parallelism ) | 座體材質 ( Texture of material ) | 重量 ( weight ) | 適配聯軸器 Adapted coupling |
|---|---|---|---|---|---|
| MBK17-110 | 0.005 | 0.01/100 | HT250 | 4 | φ 40*55 |
| MBK20-110 | 0.005 | 0.01/100 | HT250 | 4 | φ 40*55 |
| MBK25-110 | 0.005 | 0.01/200 | HT250 | 4.6 | φ 40/45*66 |
| MBK20-130 | 0.005 | 0.01/200 | HT250 | 4.3 | φ 40/45*66 |
| MBK25-130 | 0.005 | 0.01/200 | HT250 | 4.8 | φ 40/45*66 |
| MBK25B-130 | 0.005 | 0.01/200 | HT250 | 7.5 | φ 55*78 |

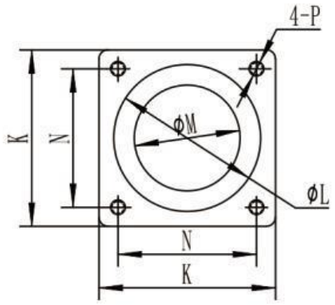
## Motor Mount MBK17-110 MBK20-110 MBK25-110 MBK20-130

### 尺寸参数/Dimensional parameters

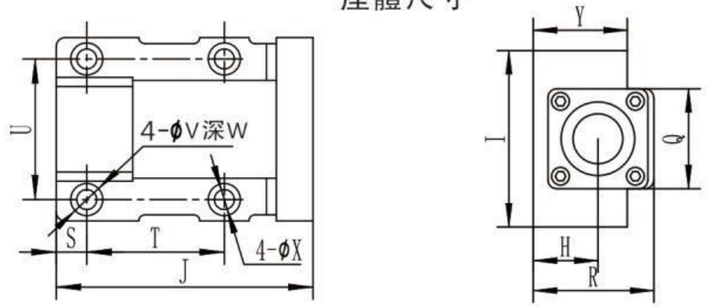
建議絲杆尺寸




電機安裝尺寸




座體尺寸




建議絲杆尺寸 ( Ball-screw size)

電機安裝尺寸 ( Installation Dimension of motor)

單位 ( unit ) : mm

| 型號 ( model ) | φ A-0.01 | B | C | D | E | F | G | φ M | φ L+0.03 | N | K | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK17-110 | 17 | M17*1 | 10.2 | 42 | 15 | 18 | 8 | 60 | 95/85 | 91.9/93.9 | 110 | M8 |
| MBK20-110 | 20 | M20*1 | 10.2 | 42 | 15 | 18 | 8 | 60 | 95/85 | 91.9/93.9 | 110 | M8 |
| MBK25-110 | 25 | M25*1.5 | 12.3 | 49 | 18 | 18 | 8 | 60 | 95/85 | 91.9/93.3 | 110 | M8 |
| MBK20-130 | 20 | M20*1 | 10.2 | 42 | 15 | 15 | 8 | 60 | 110/100 | 102.5/109.6 | 130 | M8 |
| MBK25-130 | 25 | M25*1.5 | 12.3 | 49 | 18 | 18 | 8 | 60 | 110/100 | 102.5/109.6 | 130 | M8 |
| MBK25B-130 | 25 | M25*1.5 | 12.3 | 49 | 18 | 20 | 8 | 78 | 110/100 | 102.5/109.6 | 130 | M8 |
| MBK20/25-120(減速机 ) L=110,N=92.2 | | | | | | | | | 伺服/步进 | | | |

座體尺寸 (Seat size)

| 型號 ( model ) | H±0.01 | I | J | Q | R | S | T | U | φ V | W | φ X通 | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK17-110 | 39 | 96 | 148 | 50 | 67 | 15 | 80 | 78 | 14 | 9 | 9 | 50 |
| MBK20-110 | 34 | 96 | 148 | 50 | 59 | 15 | 80 | 78 | 14 | 9 | 9 | 50 |
| MBK25-110 | 48 | 106 | 153 | 63 | 79 | 15 | 85 | 85 | 17 | 11 | 11 | 63 |
| MBK20-130 | 34 | 96 | 148 | 50 | 59 | 15 | 80 | 78 | 14 | 9 | 9 | 50 |
| MBK25-130 | 48 | 106 | 153 | 63 | 79 | 15 | 85 | 85 | 18 | 11 | 11 | 63 |
| MBK25B-130 | 48 | 134 | 170 | 85 | 89 | 20 | 80 | 110 | 21 | 15 | 13 | 68 |

| | 6孔 | S | S2 | T | U |
|---|---|---|---|---|---|
| | MBK20 | 8 | 19 | 68 | 前70后78 |
| | MBK25 | 10 | 22 | 68 | 85 |

備注：

1.使用之軸承經預壓處理，軸向0間隙 ( All types make preload )

2.軸承采用P5配對組裝，最適宜滾珠螺杆使用。

( Bearing P5 pairing assembled using the most appropriate ball screw. )

## 电机座 MBK30-130 MBK35-130 MBK40-150 MBK40-180

### MBK30-130
### MBK35-130

適配電機型號：130伺服電機
Adaptive motor model: 130 servo motor

### MBK40-150

適配電機型號：150伺服電機
Adaptive motor model: 150 servo motor

### MBK40-180

適配電機型號：180伺服電機
Adaptive motor model: 180 servo motor



| 內含部件：Included parts: | 座體 seat/base | 軸承 bearing | 軸承壓蓋 bearing gland | 密封圈 sealing ring | 磨制墊圈 washer | F型鎖緊螺母 locking nut |
|---|---|---|---|---|---|---|
| 內含數量：QTY: | 1<br>1pc | 1組<br>1set | 1<br>1pc | 2<br>2pcs | 2<br>2pcs | 1<br>1pc |

### 特点/Features

一體化馬達座定位孔與軸承安裝孔采取一體化加工，能最大限度保證馬達軸心/聯軸器軸心/軸承孔軸心/絲杆軸心等四位一休，從而克服了分離式馬達座與分離式軸承座聯合安裝時以同軸的缺點!

軸承軸心與座體安裝基面平行度達到0.01/100，保證絲杆安裝後的平行度。

Integrated motor mount positioning holes and the bearing mounting hole take the integration process,to ensure maximum motor shaft/coupling Axial/axial bearing hole/screw axis other four a break to overcome the separation of motor housing when the split bearing joint is difficult to install coaxial shortcomings!

The parallelism between bearing shaft and mounting surface of the base reaches 0.01/100, to ensure the parallelism of screw rod after installation

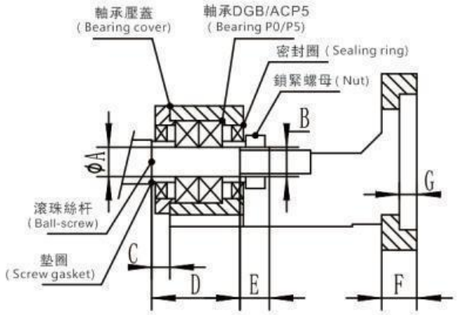
### 技术参数/Technical parameter

| 型號 ( model ) | 電機安裝孔與軸承安裝孔同軸度 ( concentricity ) | 軸心與底面平行度 ( parallelism ) | 座體材質 ( Texture of material ) | 重量 ( weight ) | 適配聯軸器 Adapted coupling |
|---|---|---|---|---|---|
| MBK30-130 | 0.005 | 0.01/200 | HT250 | 7.5 | φ 55*78 |
| MBK35-130 | 0.005 | 0.01/200 | HT250 | 7.5 | φ 65*90 |
| MBK40-150 | 0.005 | 0.01/200 | HT250 | 18 | φ 65*90 |
| MBK40-180 | 0.005 | 0.01/200 | HT250 | 18 | φ 65*90 |

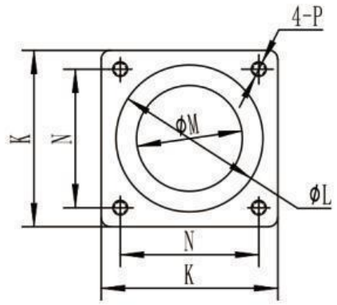
## Motor Mount MBK30-130 MBK35-130 MBK40-150 MBK40-180

### 尺寸参数/Dimensional parameters

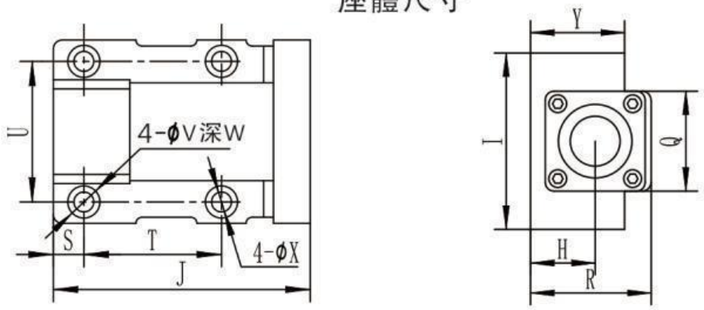
建議絲杆尺寸




電機安裝尺寸




座體尺寸




建議絲杆尺寸 ( Ball-screw size)　　電機安裝尺寸 ( Installation Dimension of motor)　　單位 ( unit ) : mm

| 型號 ( model ) | φ A-0.01 | B | C | D | E | F | G | φ M | φ L+0.03 | N | K | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK30-130 | 30 | M30*1.5 | 14.2 | 56 | 21 | 20 | 8 | 78 | 110/100 | 102.5/109.6 | 130 | M8 |
| MBK35-130 | 35 | M35*1.5 | 14.2 | 61 | 25 | 20 | 8 | 78 | 110/100 | 102. 5/109. 6 | 130 | M8 |
| MBK40-150 | 40 | M40*1.5 | 18.2 | 70 | 25 | 25 | 12 | 78 | 130 | 123. 4 | 180 | M10 |
| MBK40-180 | 40 | M40*1.5 | 18.2 | 70 | 25 | 25 | 12 | 78 | 114. 3 | 141. 4 | 180 | M12 |
| MBK30/35-120(減速机 ) L=110,N=92.2 | | | | | | | | | 伺服/步进 | | | |

座體尺寸 (Seat size)

| 型號 ( model ) | H±0.01 | I | J | Q | R | S | T | U | φ V | W | φ X通 | Y |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK30-130 | 51 | 134 | 170 | 85 | 89 | 20 | 80 | 110 | 21 | 30 | 13 | 68 |
| MBK35-130 | 52 | 134 | 170 | 85 | 95 | 20 | 80 | 110 | 21 | 30 | 13 | 70 |
| MBK40-150 | 60 | 180 | 223 | 100 | 110 | / | / | / | 26 | 20 | 17. 5 | 80 |
| MBK40-180 | 60 | 180 | 223 | 100 | 110 | / | / | / | 26 | 20 | 17. 5 | 80 |

| | 6孔 | S | S2 | T | U |
|---|---|---|---|---|---|
| | MBK30 | 11 | 23 | 66 | 前102后110 |
| | MBK40 | 14 | 33 | 90 | 前130后150 |

備注：

1.使用之軸承經預壓處理，軸向0間隙 ( All types make preload )

2.軸承采用P5配對組裝，最適宜滾珠螺杆使用。

( Bearing P5 pairing assembled using the most appropriate ball screw. )

# MBK25P-130
# MBK30P-130
# MBK35P-130

適配電機型號：130伺服電機
Adaptive motor model: 130 servo motor

## MBK40P-150

適配電機型號：150伺服電機
Adaptive motor model: 150 servo motor

## MBK40P-180

適配電機型號：180伺服電機
Adaptive motor model: 180 servo motor



| 內含部件：Included parts: | 座體 seat/base | 軸承 bearing | 軸承壓蓋 bearing gland | 密封圈 sealing ring | 磨制墊圈 washer | F型鎖緊螺母 locking nut |
|---|---|---|---|---|---|---|
| 內含數量：QTY: | 1<br>1pc | 1組<br>1set | 1<br>1pc | 2<br>2pcs | 2<br>2pcs | 1<br>1pc |

## 特点/Features

一體化馬達座定位孔與軸承安裝孔采取一體化加工，能最大限度保證馬達軸心/聯軸器軸心/軸承孔軸心/絲杆軸心等四位一体，從而克服了分離式馬達座與分離式軸承座聯合安裝時以同軸的缺點!

軸承軸心與座體安裝基面平行度達到0.01/100，保證絲杆安裝後的平行度。

Integrated motor mount positioning holes and the bearing mounting hole take the integration process,to ensure maximum motor shaft/coupling Axial/axial bearing hole/screw axis other four a break to overcome the separation of motor housing when the split bearing joint is difficult to install coaxial shortcomings!

The parallelism between bearing shaft and mounting surface of the base reaches 0.01/100, to ensure the parallelism of screw rod after installation

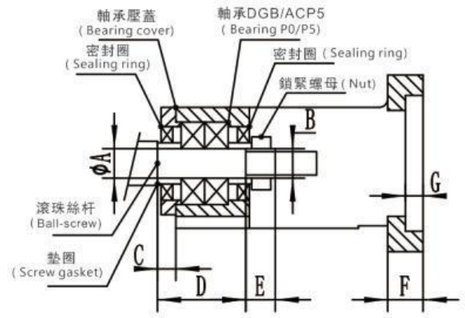
## 技术参数/Technical parameter

| 型號 ( model ) | 電機安裝孔與軸承安裝孔同軸度 ( concentricity ) | 軸心與底面平行度 ( parallelism ) | 座體材質 ( Texture of material ) | 重量 ( weight ) | 適配聯軸器 Adapted coupling |
|---|---|---|---|---|---|
| MBK25P-130 | 0.005 | 0.01/200 | HT250 | 9.2 | φ 55*78 |
| MBK30P-130 | 0.005 | 0.01/200 | HT250 | 9.2 | φ 55*78 |
| MBK35P-130 | 0.005 | 0.01/200 | HT250 | 9.2 | φ 55*78 |
| MBK40P-150 | 0.005 | 0.01/200 | HT250 | 26 | φ 65*90 |
| MBK40P-180 | 0.005 | 0.01/200 | HT250 | 26 | φ 65*90 |

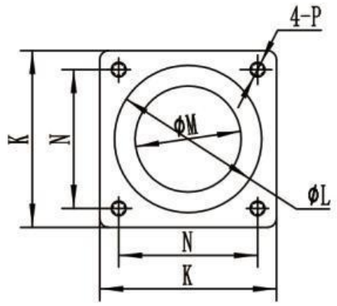


## 尺寸参数/Dimensional parameters

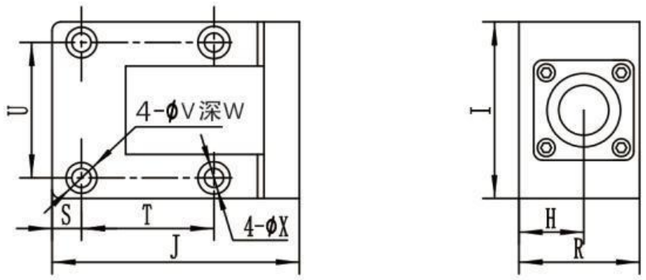
建議絲杆尺寸




電機安裝尺寸




座體尺寸




建議絲杆尺寸 ( Ball-screw size)　　電機安裝尺寸 ( Installation Dimension of motor)　　單位 ( unit ) : mm

| 型號 ( model ) | φ A-0.01 | B | C | D | E | F | G | φ M | φ L+0.03 | N | K | P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MBK25P-130 | 25 | M25*1.5 | 12.3 | 49 | 18 | 18 | 8 | 60 | 110/100 | 102.5/109.6 | 130 | M8 |
| MBK30P-130 | 30 | M30*1.5 | 14.2 | 56 | 21 | 20 | 8 | 78 | 110/100 | 102.5/109.6 | 130 | M8 |
| MBK35P-130 | 35 | M35*1.5 | 14.2 | 61 | 25 | 20 | 8 | 78 | 110/100 | 102.5/109.6 | 130 | M8 |
| MBK40P-150 | 40 | M40*1.5 | 18.2 | 70 | 25 | 25 | 8 | 78 | 110/100 | 102.5/109.6 | 130 | M8 |
| MBK40P-180 | 40 | M40*1.5 | 18.2 | 70 | 25 | 25 | 8 | 78 | 110/100 | 102.5/109.6 | 130 | M8 |
| MBK30/35-120(減速机 ) L=110,N=92.2 | | | | | | | | | 伺服/步进 | | | |

座體尺寸 (Seat size)

| 型號 ( model ) | H±0.01 | I | J | R | S | T | U | φ V | W | φ X通 |
|---|---|---|---|---|---|---|---|---|---|---|
| MBK25P-130 | 48 | 134 | 170 | 95 | 20 | 80 | 110 | 21 | 35 | 13 |
| MBK30P-130 | 51 | 134 | 170 | 95 | 20 | 80 | 110 | 21 | 35 | 13 |
| MBK35P-130 | 52 | 134 | 170 | 95 | 20 | 80 | 110 | 21 | 35 | 13 |
| MBK40P-150 | 60 | 180 | 223 | 110 | / | / | / | 26 | 45 | 17.5 |
| MBK40P-180 | 60 | 180 | 223 | 110 | / | / | / | 26 | 45 | 17.5 |
| | | | 6孔 | S | S2 | T | U | | | |
| | | | MBK30 | 11 | 23 | 66 | 前102后110 | | | |
| | | | MBK40 | 14 | 33 | 90 | 前130后150 | | | |

備注：

1.使用之軸承經預壓處理，軸向0間隙 ( All types make preload )

2.軸承采用P5配對組裝，最適宜滾珠螺杆使用。

( Bearing P5 pairing assembled using the most appropriate ball screw. )

# 轨道内嵌式丝杆滑台模组 单轴 STH4系列



此圖僅供參考，出貨規格詳見尺寸圖面
The picture is just for the reference. Please check the the actual dimensions on the drawing.

| 最大行程 Maximum Stroke | 最高速度 Maximum Speed | 馬達容量 Motor Output | 滾珠螺桿 Ball Screw |
|---|---|---|---|
| 500mm | 125mm/s | 50W | Ø8mm |

## 型號表示方式 Ordering Method

STH4- L1 - 100- BC- M05B- C4- 0001

本體型號 Model

■螺桿導程 Ball Screw Lead

| | |
|---|---|
| 01 | 1mm |
| 2.5 | 2.5mm |

■行程 Stroke

50-500mm
50間隔 50 mm Pitch
※行程50限定只能安裝2組光電。
Limitations while stroke is 50 only install 2 sets of optoelectronics.

■馬達位置 Motor Position

| | |
|---|---|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

■馬達廠牌、功率 Motor Brand、Power Output

| | | | | |
|---|---|---|---|---|
| M | 三菱 Mitsubishi | 05 | 50W | B |
| P | 國際 Panasonic | 10 | - | |
| Y | 安川 Yaskawa | 20 | - | |
| T | 台達 Delta | 40 | - | |

※若無煞車則不表示。※If No Brake,No Description.

■原點感應器 Home Sensor

| | |
|---|---|
| 外掛型 Out Side | |
| C | 馬達側 Motor Side |
| D | 反馬達側 OppoSite Motor Side |
| 無 SENSOR No Sensor | |
| E | 無 SENSOR No Sensor |

※選擇行程50時，有以下限制：
When the stroke is 50mm, the sensor installation has the following restrictions:
1. 無法選用C4,D4規格。
C4 & D4 will not be available for installation (order) option.
2. 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
3. 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

■端點極限感應器 Limit Sensor

| | |
|---|---|
| 外掛型 Out Side | |
| 3 | 1只 1 Pc |
| 4 | 2只 2 Pc |
| 無 SENSOR No Sensor | |
| 5 | 無 SENSOR No Sensor |

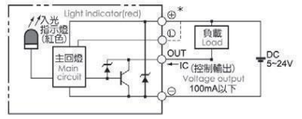
# In-line rail ball screw linear slide module 1-axis STH4 series

## 基本仕樣 Specification

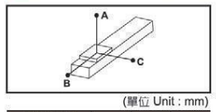
| | | | | |
|---|---|---|---|---|
| 規格 Spec | 位置重複精度 Repeatability (mm) | | ±0.01 | |
| | 螺桿導程 Ball Screw Lead (mm) | | 1 | 2.5 |
| | 最高速度 Maximum Speed (mm/s) | | 50 | 125 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 25 | 25 |
| | | 垂直使用 Vertical (kg) | 8 | 8 |
| | 定格推力 Rated Thrust (N) | | 849 | 339 |
| | 標準行程 Stroke Pitch (mm) | | 50-500mm/50間隔 50 mm Pitch | |
| 部品 Parts | AC伺服馬達容量 AC Servo Motor Output (W) | | 50 | |
| | 滾珠螺桿外徑 Ball Screw Ø (mm) | | C7 ϕ 8 | |
| | 連軸器 Coupling (mm) | | 7X8 | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | |

※行程超過300時，會產生螺桿偏擺，此時請將速度調降。
When the stroke is over 300mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.
※馬達加減速設定0.2秒。
Acceleration and deaceleration value is set 0.2 second.

## 感應器接線圖<原點及端點> Sensor Layout

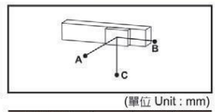



## 容許負載力距表 Allowable Overhang



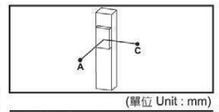

(單位 Unit : mm)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| 導程 1 Lead | 12kg | 720 | 71 | 104 |
| | 18kg | 430 | 44 | 66 |
| | 25kg | 322 | 30 | 44 |
| 導程 2.5 Lead | 15kg | 550 | 47 | 69 |
| | 20kg | 355 | 34 | 49 |
| | 25kg | 255 | 25 | 37 |




(單位 Unit : mm)

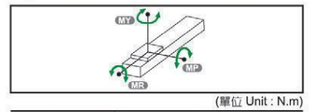
| 壁掛安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| 導程 1 Lead | 12kg | 94 | 69 | 699 |
| | 18kg | 56 | 44 | 411 |
| | 25kg | 34 | 30 | 308 |
| 導程 2.5 Lead | 15kg | 58 | 47 | 521 |
| | 20kg | 40 | 34 | 343 |
| | 25kg | 28 | 25 | 245 |




(單位 Unit : mm)

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| 導程 1 Lead | 4kg | 233 | 233 |
| | 8kg | 118 | 118 |
| | - | - | - |
| 導程 2.5 Lead | 4kg | 205 | 205 |
| | 8kg | 104 | 104 |
| | - | - | - |

## 靜態容許負載慣量 Static Loading Moment




(單位 Unit : N.m)

| | |
|---|---|
| MY | 79 |
| MP | 79 |
| MR | 116 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
※倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

## 搭配伺服馬達一覽表 Suitable Motor Brand

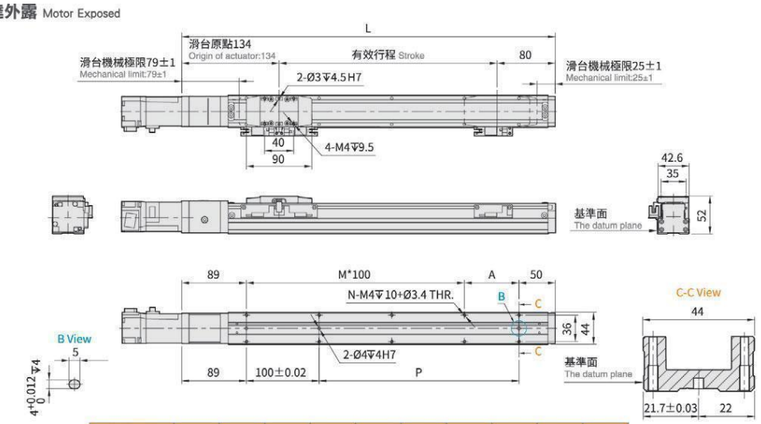
| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watt | 電源電壓 AC-Voltage | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | 無煞車(水平仕樣) No Brake (Horizontal Type) | 50 | 220 | HG-KR053 | MR-J4-10A |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 50 | 220 | HG-KR053B | MR-J4-10A |
| 國際 Panasonic | P | 無煞車(水平仕樣) No Brake (Horizontal Type) | 50 | 220 | MSMD5A2G1U | MADHT1505 |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 50 | 220 | MSMD5A2G1V | MADHT1505 |
| 台達 Delta | T | 無煞車(水平仕樣) No Brake (Horizontal Type) | 50 | 220 | ECMA-C1040FES | ASD-B20121-B |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 50 | 220 | ECMA-C1040FFS | ASD-B20121-B |

滑台模組

# 轨道内嵌式丝杆滑台模组 单轴 STH4系列

## BC 馬達外露 Motor Exposed

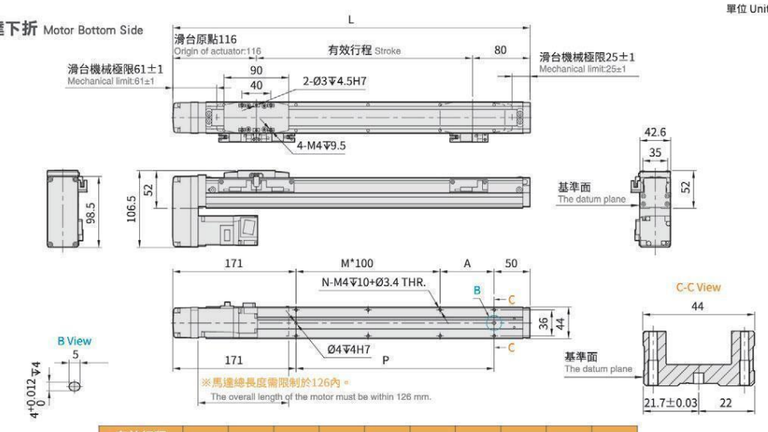
單位 Unit : mm




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
|---|---|---|---|---|---|---|---|---|---|---|
| L | 264 | 314 | 364 | 414 | 464 | 514 | 564 | 614 | 664 | 714 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 |
| KG | 0.95 | 1.12 | 1.29 | 1.47 | 1.65 | 1.83 | 2.01 | 2.19 | 2.37 | 2.55 |

## BM 馬達下折 Motor Bottom Side

單位 Unit : mm



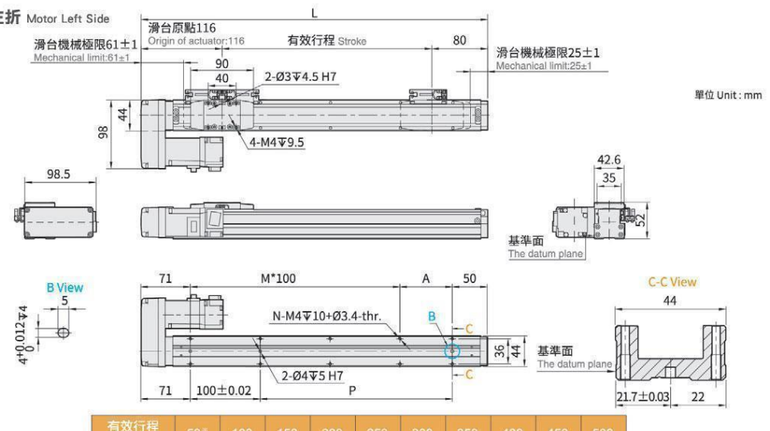

| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
|---|---|---|---|---|---|---|---|---|---|---|
| L | 246 | 296 | 346 | 396 | 446 | 496 | 546 | 596 | 646 | 696 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 |
| N | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 |
| KG | 1.04 | 1.22 | 1.40 | 1.58 | 1.76 | 1.94 | 2.12 | 2.30 | 2.48 | 2.66 |

※馬達下折時，若選用煞車馬達，或是超出馬達總長度限制時無法套用標準 PIN 孔，如有需求請洽我司業務。
When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

# In-line rail ball screw linear slide module 1-axis STH4 series

## BL 馬達左折 Motor Left Side

單位 Unit : mm

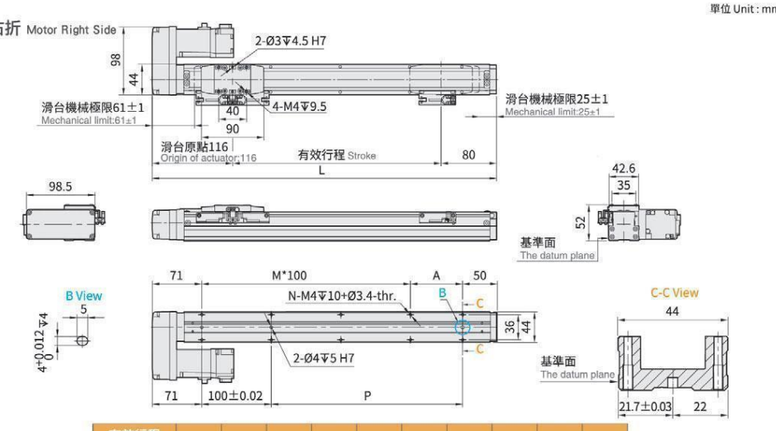



| 有效行程 Stroke | 50* | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
|---|---|---|---|---|---|---|---|---|---|---|
| L | 246 | 296 | 346 | 396 | 446 | 496 | 546 | 596 | 646 | 696 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 |
| KG | 1.04 | 1.22 | 1.40 | 1.58 | 1.76 | 1.94 | 2.12 | 2.30 | 2.48 | 2.66 |

※行程50時,因本體上鎖式固定孔會被滑座遮住，僅能使用4支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

## BR 馬達右折 Motor Right Side

單位 Unit : mm




| 有效行程 Stroke | 50* | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
|---|---|---|---|---|---|---|---|---|---|---|
| L | 246 | 296 | 346 | 396 | 446 | 496 | 546 | 596 | 646 | 696 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 |
| KG | 1.04 | 1.22 | 1.40 | 1.58 | 1.76 | 1.94 | 2.12 | 2.30 | 2.48 | 2.66 |

※行程50時,因本體上鎖式固定孔會被滑座遮住，僅能使用4支螺絲固定，建議客戶本體使用下鎖式固定孔鎖附。
When the stroke is 50mm, if fixing the body from the top to the bottom, the fixing hole will be blocked by slider and only can be uses 4 screws to fix; as a result, suggest that fixing actuator body from the bottom to the top.

# 轨道内嵌式丝杆滑台模组 单轴 STH5系列

# In-line rail ball screw linear slide module 1-axis STH5 series



最大行程 Maximum Stroke 200mm

最高速度 Maximum Speed 1000mm/s

馬達容量 Motor Output 100W

滾珠螺桿 Ball Screw ⌀ 12mm

## 型號表示方式 Ordering Method

STH5 - L5 - 100 - BC - M10B - C4 - 0001

本體型號 Model

行程 Stroke

50-800mm

間隔50 50 mm Pitch

螺桿導程 Ball Screw Lead

| | |
|---|---|
| 2 | 2mm |
| 5 | 5mm |
| 10 | 10mm |
| 20 | 20mm |

馬達位置 Motor Position

| | |
|---|---|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

馬達廠牌、功率 Motor Brand、Power Output

| | | | | |
|---|---|---|---|---|
| M | 三菱 Mitsubishi | 05 | - | B |
| P | 松下 Panasonic | 10 | 100W | |
| Y | 安川 Yaskawa | 20 | - | |
| T | 台達 Delta | 40 | - | |

*若無煞車則不表示。
If No Brake,No Description.

原點感應器 Home Sensor

| | |
|---|---|
| 外掛型 Outside | |
| C | 馬達側 Motor Side |
| D | 反馬達側 Opposite Motor Side |
| 無 SENSOR No Sensor | |
| E | 無 SENSOR No Sensor |

* 選擇行程 50 時，有以下限制：
When the stroke is 50mm, the sensor installation has the following restrictions:

1. 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
2. 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

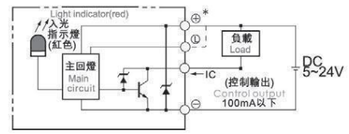
端點極限感應器 Limit Sensor

| | |
|---|---|
| 外掛型 Outside | |
| 3 | 1只 1 Pc |
| 4 | 2只 2 Pc |
| 無 SENSOR No Sensor | |
| 5 | 無 SENSOR No Sensor |

## 基本仕樣 Specification

| | | | | | | |
|---|---|---|---|---|---|---|
| 規格 Spec | 位置重複精度 Repeatability (mm) | | ±0.01 | | | |
| | 螺桿導程 Ball Screw Lead (mm) | | 2 | 5 | 10 | 20 |
| | 最高速度 Maximum Speed (mm/s)※1 | | 100 | 250 | 500 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 38 | 24 | 16 | 11 |
| | | 垂直使用 Vertical (kg) | 11 | 8 | 5 | 3.5 |
| | 定格推力 Rated Thrust (N) | | 854 | 341 | 170 | 85 |
| | 標準行程 Stroke / Pitch (mm)※2 | | 50-800mm/50 間隔 50 mm Pitch | | | |
| 部品 Parts | AC伺服馬達容量 AC Servo Motor Output (W) | | 100 | | | |
| | 滾珠螺桿外徑 Ball Screw Ø (mm) | | C7 ϕ 12 | | | |
| | 連軸器 Coupling (mm) | | 7X8 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | | | |

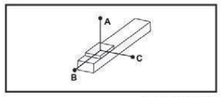
## 感應器接線圖<原點及端點> Sensor Layout




※1 馬達加減速設定0.2秒。
Acceleration and deacceleration value is set 0.2 second.

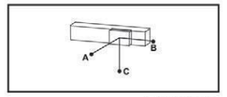
※2 行程超過600時，會產生螺桿偏擺震動，此時請將速度調降。詳細請參考P15頁說明。
When the stroke is over 600mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances. Please refer to P29 for details.

## 容許負載力距表 Allowable Moment



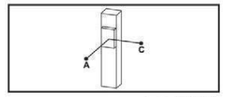

(單位 Unit:mm)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| 導程 2 Lead | 10kg | 900 | 100 | 135 |
| | 20kg | 700 | 45 | 60 |
| | 30kg | 550 | 25 | 35 |
| 導程 5 Lead | 10kg | 650 | 75 | 100 |
| | 20kg | 440 | 32 | 45 |
| | 30kg | 270 | 19 | 25 |
| 導程 10 Lead | 5kg | 600 | 145 | 185 |
| | 10kg | 370 | 70 | 85 |
| | 15kg | 250 | 42 | 52 |
| 導程 20 Lead | 5kg | 320 | 120 | 130 |
| | 8kg | 220 | 70 | 80 |
| | 10kg | 175 | 55 | 60 |




(單位 Unit:mm)

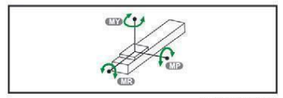
| 壁掛安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| 導程 2 Lead | 10kg | 135 | 100 | 900 |
| | 20kg | 60 | 45 | 700 |
| | 30kg | 37 | 27 | 550 |
| 導程 5 Lead | 10kg | 100 | 75 | 650 |
| | 20kg | 45 | 32 | 420 |
| | 30kg | 25 | 19 | 260 |
| 導程 10 Lead | 5kg | 180 | 145 | 600 |
| | 10kg | 85 | 68 | 370 |
| | 15kg | 52 | 42 | 250 |
| 導程 20 Lead | 5kg | 130 | 120 | 320 |
| | 8kg | 75 | 70 | 220 |
| | 10kg | 60 | 55 | 170 |




(單位 Unit:mm)

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| 導程 2 Lead | 6kg | 180 | 180 |
| | 8kg | 135 | 135 |
| | 10kg | 110 | 110 |
| 導程 5 Lead | 6kg | 145 | 145 |
| | 8kg | 110 | 110 |
| | 10kg | 90 | 90 |
| 導程 10 Lead | 1kg | 800 | 800 |
| | 3kg | 260 | 260 |
| | 5kg | 155 | 155 |
| 導程 20 Lead | 1kg | 600 | 600 |
| | 2kg | 300 | 300 |
| | 2.5kg | 250 | 250 |

## 靜態容許負載慣量 Static Loading Moment




(單位 Unit:N.m)

| | |
|---|---|
| MY | 103 |
| MP | 103 |
| MR | 144 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.

※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

※倒吊使用與決選用標準規範，如有需求請洽詢我司業務。
Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

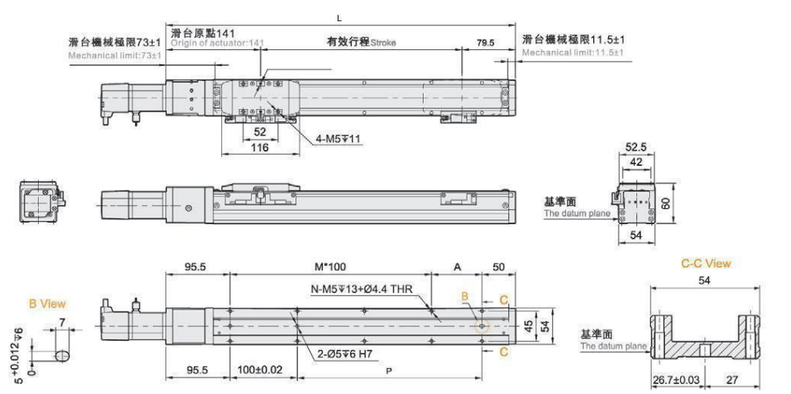
## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watt | 電源電壓 AC-Voltage | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | 無煞車(水平仕樣) No Brake (Horizontal Type) | 100 | 220 | HG-KR13 | MR-J4-10A |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 100 | 220 | HG-KR13B | MR-J4-10A |
| 松下 Panasonic | P | 無煞車(水平仕樣) No Brake (Horizontal Type) | 100 | 220 | MSMD012G1U | MADHT1505 |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 100 | 220 | MSMD012G1V | MADHT1505 |
| 台達 Delta | T | 無煞車(水平仕樣) No Brake (Horizontal Type) | 100 | 220 | ECMA-C20401ES | ASD-B20121-B |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 100 | 220 | ECMA-C20401FS | ASD-B20121-B |

# 轨道内嵌式丝杆滑台模组 单轴 STH5系列

## BC 馬達外露 Motor Exposed

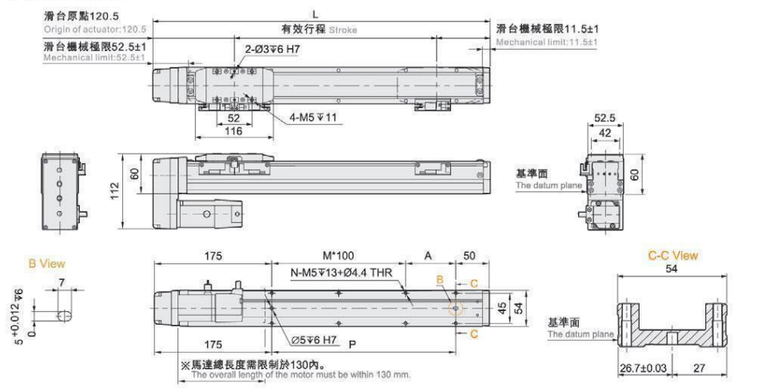
(單位 Unit : mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 270.5 | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 | 625 | 675 | 725 | 775 |
| KG | 1.65 | 1.79 | 1.92 | 2.11 | 2.39 | 2.50 | 2.52 | 2.75 | 2.86 | 2.95 | 3.15 | 3.28 | 3.44 | 3.58 | 3.71 | 4.09 |

## BM 馬達下折 Motor Bottom Side

(單位 Unit : mm)



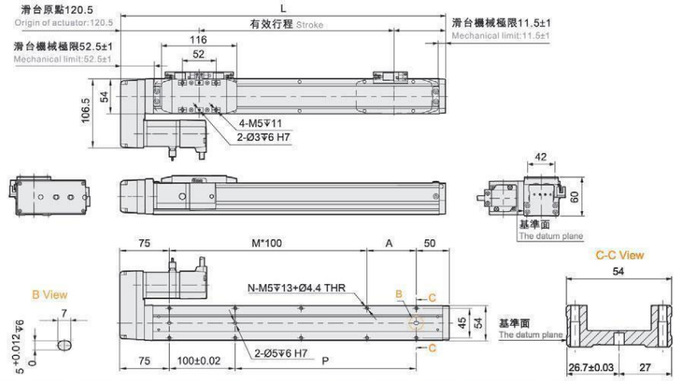

| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 |
| N | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 | 625 | 675 | 725 | 775 |
| KG | 1.68 | 1.80 | 2.03 | 2.14 | 2.42 | 2.53 | 2.58 | 2.78 | 2.89 | 2.98 | 3.18 | 3.31 | 3.47 | 3.60 | 3.74 | 4.12 |

※馬達下折時，若選用無軸馬達，或是超出馬達總長度限制時無法套用標準PIN孔，如有需求請洽我司業務。
When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

# In-line rail ball screw linear slide module 1-axis STH5 series

## BL 馬達左折 Motor Left Side

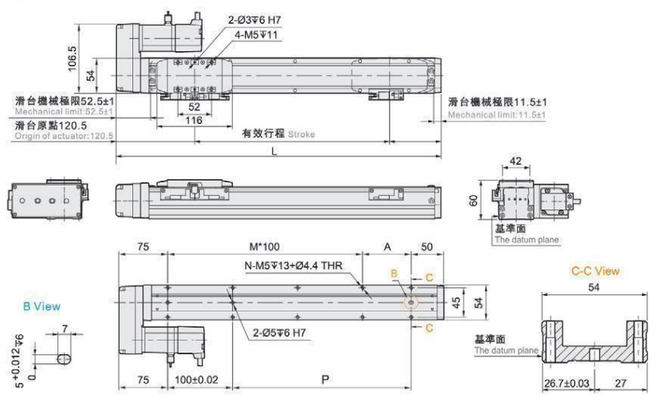
(單位 Unit : mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 | 625 | 675 | 725 | 775 |
| KG | 1.68 | 1.80 | 2.03 | 2.14 | 2.42 | 2.53 | 2.58 | 2.78 | 2.89 | 2.98 | 3.18 | 3.31 | 3.47 | 3.60 | 3.74 | 4.12 |

## BR 馬達右折 Motor Right Side

(單位 Unit : mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| A | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 | 25 | 75 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 |
| P | 25 | 75 | 125 | 175 | 225 | 275 | 325 | 375 | 425 | 475 | 525 | 575 | 625 | 675 | 725 | 775 |
| KG | 1.68 | 1.80 | 2.03 | 2.14 | 2.42 | 2.53 | 2.58 | 2.78 | 2.89 | 2.98 | 3.18 | 3.31 | 3.47 | 3.60 | 3.74 | 4.12 |

# 轨道内嵌式丝杆滑台模组 单轴 STH8系列



最大行程 Maximum Stroke 1100mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 200W | 滾珠螺桿 Ball Screw Ø 16mm

## 型號表示方式 Ordering Method

STH8 - L10 - 100 - BC - M20B - C4 - 0001

本體型號 Model

行程 Stroke
50-1100mm
間隔50 50 mm Pitch

特注式樣 Customization Order No.

螺桿導程 Ball Screw Lead

| | |
|---|---|
| 5 | 5mm |
| 10 | 10mm |
| 20 | 20mm |

馬達位置 Motor Position

| | |
|---|---|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

馬達廠牌、功率 Motor Brand、Power Output

| | | | | |
|---|---|---|---|---|
| M | 三菱 Mitsubishi | 05 | - | B |
| P | 松下 Panasonic | 10 | - | |
| Y | 安川 Yaskawa | 20 | 200W | |
| T | 台達 Delta | 40 | - | |

*若無煞車則不表示。
If No Brake,No Description.

原點感應器 Home Sensor

| | |
|---|---|
| 外掛型 Outside | |
| C | 馬達側 Motor Side |
| D | 反馬達側 Opposite Motor Side |
| 無 SENSOR No Sensor | |
| E | 無 SENSOR No Sensor |

* 選擇行程 50 時，有以下限制：
When the stroke is 50mm, the sensor installation has the following restrictions:
1. 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
2. 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

端點極限感應器 Limit Sensor

| | |
|---|---|
| 外掛型 Outside | |
| 3 | 1只 1 Pc |
| 4 | 2只 2 Pc |
| 無 SENSOR No Sensor | |
| 5 | 無 SENSOR No Sensor |

# In-line rail ball screw linear slide module 1-axis STH8 series

## 基本仕樣 Specification

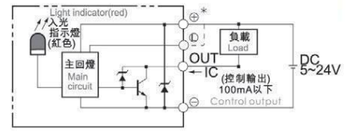
| | | | | |
|---|---|---|---|---|
| 規格 Spec | 位置重複精度 Repeatability (mm) | | ±0.01 | |
| | 螺桿導程 Ball Screw Lead (mm) | | 5 | 10 | 20 |
| | 最高速度 Maximum Speed (mm/s)※1 | | 250 | 500 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 60 | 40 | 25 |
| | | 垂直使用 Vertical (kg) | 18 | 12 | 7 |
| | 定格推力 Rated Thrust (N) | | 683 | 341 | 174 |
| | 標準行程 Stroke / Pitch (mm)※2 | | 50-1100mm/50 間隔 50 mm Pitch | | |
| 部品 Parts | AC伺服馬達容量 AC Servo Motor Output (W) | | 200 | | |
| | 滾珠螺桿外徑 Ball Screw Ø (mm) | | C7 ф 16 | | |
| | 連軸器 Coupling (mm) | | 10X14/11(註1) | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | | |

※1 馬達加減速設定0.2秒。
Acceleration and deaceleration value is set 0.2 second.

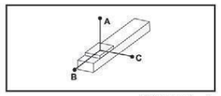
※2 行程超過750時，會產生螺桿偏擺震動，此時請將速度調降。詳細請參考P15頁說明。
When the stroke is over 750mm, the run-out of the ballscrew will occur.
We recommend to low down the working speed under this circumstances.Please refer to P29 for details.

註1:使用Panasonic 200W馬達時，馬達軸心為φ11；其他廠牌，馬達軸心為φ14。
Motor (200W) Shaft Diameter: Panasonic: 11mm; Other: 14mm.

## 感應器接線圖<原點及端點> Sensor Layout

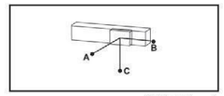



## 容許負載力距表 Allowable Moment



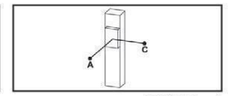

(單位 Unit:mm)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| 導程 5 Lead | 20kg | 1560 | 153 | 237 |
| | 35kg | 890 | 81 | 126 |
| | 50kg | 550 | 53 | 82 |
| 導程 10 Lead | 10kg | 1730 | 286 | 412 |
| | 20kg | 839 | 136 | 196 |
| | 30kg | 541 | 86 | 124 |
| 導程 20 Lead | 6kg | 1213 | 403 | 493 |
| | 9kg | 800 | 264 | 323 |
| | 18kg | 592 | 194 | 238 |




(單位 Unit:mm)

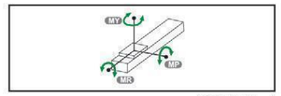
| 壁掛安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| 導程 5 Lead | 20kg | 214 | 153 | 1435 |
| | 35kg | 113 | 81 | 845 |
| | 50kg | 74 | 53 | 506 |
| 導程 10 Lead | 10kg | 370 | 286 | 1400 |
| | 20kg | 176 | 136 | 800 |
| | 30kg | 112 | 86 | 495 |
| 導程 20 Lead | 6kg | 444 | 403 | 760 |
| | 9kg | 292 | 264 | 277 |
| | 18kg | 214 | 194 | 544 |




(單位 Unit:mm)

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| 導程 5 Lead | 10kg | 331 | 331 |
| | 15kg | 220 | 220 |
| | - | - | - |
| 導程 10 Lead | 5kg | 589 | 589 |
| | 8kg | 368 | 368 |
| | - | - | - |
| 導程 20 Lead | 3kg | 935 | 935 |
| | - | - | - |
| | - | - | - |

## 靜態容許負載慣量 Static Loading Moment




(單位 Unit:N.m)

| | |
|---|---|
| MY | 318 |
| MP | 318 |
| MR | 626 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.
※倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

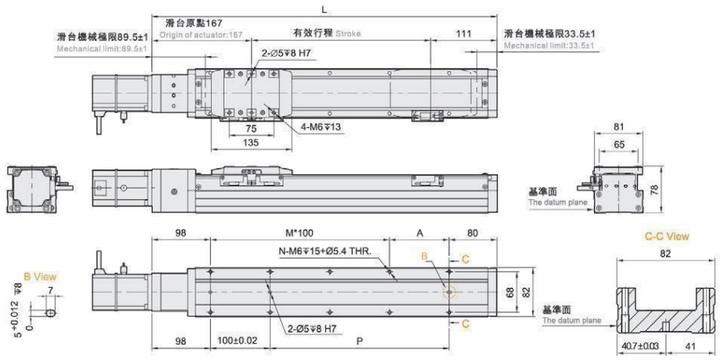
## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watt | 電源電壓 AC-Voltage | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | 無煞車(水平仕樣) No Brake (Horizontal Type) | 200 | 220 | HG-KR23 | MR-J4-20A |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 200 | 220 | HG-KR23B | MR-J4-20A |
| 松下 Panasonic | P | 無煞車(水平仕樣) No Brake (Horizontal Type) | 200 | 220 | MHMD022G1U | MADHT1507 |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 200 | 220 | MHMD022G1V | MADHT1507 |
| 台達 Delta | T | 無煞車(水平仕樣) No Brake (Horizontal Type) | 200 | 220 | ECMA-C20602ES | ASD-B20221-B |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 200 | 220 | ECMA-C20602FS | ASD-B20221-B |

# 轨道内嵌式丝杆滑台模组 单轴 STH8系列

## BC 馬達外露 Motor Exposed

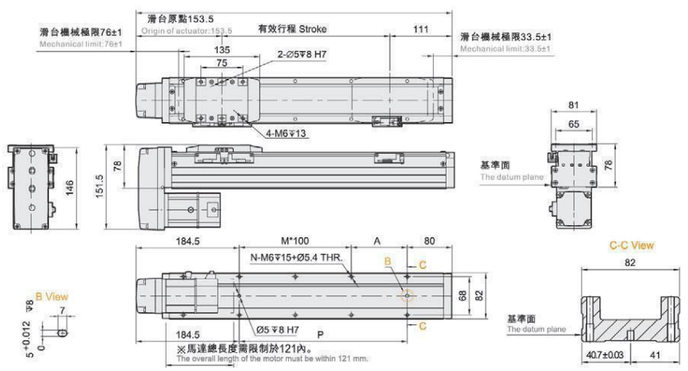
(單位 Unit : mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 328 | 378 | 428 | 478 | 528 | 578 | 628 | 678 | 728 | 778 | 828 | 878 | 928 | 978 | 1028 | 1078 | 1128 | 1178 | 1228 | 1278 | 1328 | 1378 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 |
| P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
| KG | 3.91 | 4.29 | 4.70 | 5.00 | 5.35 | 5.68 | 6.00 | 6.35 | 6.64 | 6.97 | 7.41 | 7.71 | 8.12 | 8.41 | 8.65 | 8.96 | 9.37 | 9.62 | 10.01 | 10.28 | 10.70 | 11.12 |

## BM 馬達下折 Motor Bottom Side

(單位 Unit : mm)



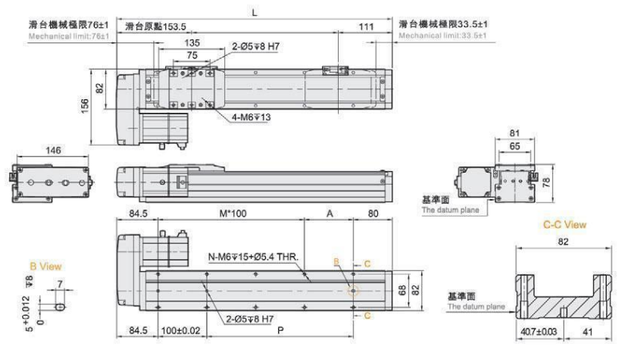

| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 314.5 | 364.5 | 414.5 | 464.5 | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 | 1364.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 0 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 10 | 10 |
| N | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 |
| P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
| KG | 3.95 | 4.33 | 4.74 | 5.09 | 5.39 | 5.72 | 6.04 | 6.39 | 6.68 | 7.01 | 7.45 | 7.75 | 8.16 | 8.45 | 8.69 | 9.00 | 9.41 | 9.66 | 10.08 | 10.32 | 10.74 | 11.16 |

※馬達下折時，若選用煞車馬達，或是超出馬達總長度規劃時無法套用標準PIN孔，如有需求請洽貨司業務。
When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

# In-line rail ball screw linear slide module 1-axis STH8 series

## BL 馬達左折 Motor Left Side

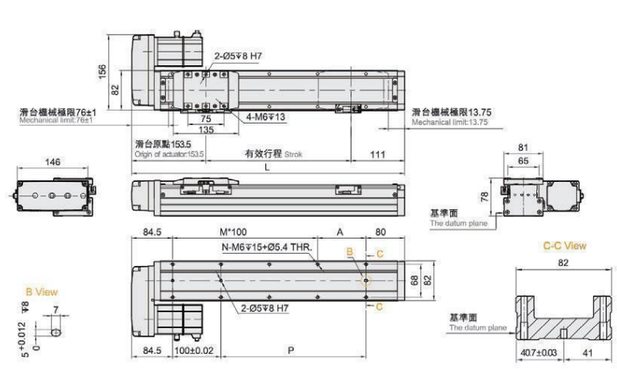
(單位 Unit : mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 314.5 | 364.5 | 414.5 | 464.5 | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 | 1364.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 |
| P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
| KG | 3.95 | 4.33 | 4.74 | 5.09 | 5.39 | 5.72 | 6.04 | 6.39 | 6.68 | 7.01 | 7.45 | 7.75 | 8.16 | 8.45 | 8.69 | 9.00 | 9.41 | 9.66 | 10.08 | 10.32 | 10.74 | 11.16 |

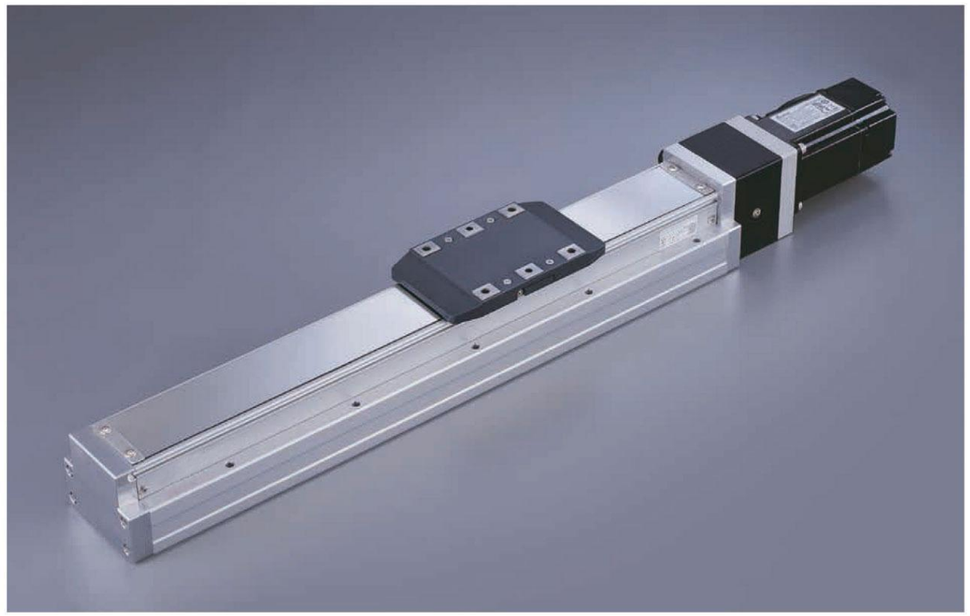
## BR 馬達右折 Motor Right Side

(單位 Unit : mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 314.5 | 364.5 | 414.5 | 464.5 | 514.5 | 564.5 | 614.5 | 664.5 | 714.5 | 764.5 | 814.5 | 864.5 | 914.5 | 964.5 | 1014.5 | 1064.5 | 1114.5 | 1164.5 | 1214.5 | 1264.5 | 1314.5 | 1364.5 |
| A | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 |
| N | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 |
| P | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 |
| KG | 3.95 | 4.33 | 4.74 | 5.09 | 5.39 | 5.72 | 6.04 | 6.39 | 6.68 | 7.01 | 7.45 | 7.75 | 8.16 | 8.45 | 8.69 | 9.00 | 9.41 | 9.66 | 10.08 | 10.32 | 10.74 | 11.16 |

# 轨道内嵌式丝杆滑台模组 单轴 STH12系列



最大行程 Maximum Stroke 1250mm | 最高速度 Maximum Speed 1600mm/s | 馬達容量 Motor Output 400W | 滾珠螺桿 Ball Screw φ16mm

## 型號表示方式 Ordering Method

STH12 - L5 - 100 - BC - M40 B - C4 - 0001

本體型號 Model

行程 Stroke
50-1250mm
間隔50 50 mm Pitch

特注式樣 Customization Order No.

螺桿導程 Ball Screw Lead

| | |
|---|---|
| 5 | 5mm |
| 10 | 10mm |
| 20 | 20mm |
| 32 | 32mm |

馬達位置 Motor Position

| | |
|---|---|
| BC | 馬達外露 Motor Exposed |
| BM | 馬達下折 Motor Bottom Side |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |

馬達廠牌、功率 Motor Brand、Power Output

| | | | | |
|---|---|---|---|---|
| M | 三菱 Mitsubishi | 05 | - | B |
| P | 松下 Panasonic | 10 | - | |
| Y | 安川 Yaskawa | 20 | - | |
| T | 台達 Delta | 40 | 400W | |

*若無煞車則不表示。
If No Brake,No Description.

原點感應器 Home Sensor

| | |
|---|---|
| 外掛型 Outside | |
| C | 馬達側 Motor Side |
| D | 反馬達側 Opposite Motor Side |
| 無 SENSOR No Sensor | |
| E | 無 SENSOR No Sensor |

* 選擇行程 50 時，有以下限制：
When the stroke is 50mm, the sensor installation has the following restrictions:
1. 原點與極限需放置於不同側。
Home sensor and limit sensor has to be installed on the different side of body.
2. 滑座左右兩側皆需安裝感應片。
Both sides of slider need to install the sensor trigger device.

端點極限感應器 Limit Sensor

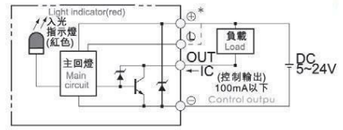
| | |
|---|---|
| 外掛型 Outside | |
| 3 | 1只 1 Pc |
| 4 | 2只 2 Pc |
| 無 SENSOR No Sensor | |
| 5 | 無 SENSOR No Sensor |

# In-line rail ball screw linear slide module 1-axis STH12 series

## 基本仕樣 Specification

| | | | | | |
|---|---|---|---|---|---|
| 規格 Spec | 位置重複精度 Repeatability (mm) | | ±0.01 | | |
| | 螺桿導程 Ball Screw Lead (mm) | | 5 | 10 | 20 | 32 |
| | 最高速度 Maximum Speed (mm/s)※1 | | 250 | 500 | 1000 | 1600 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 90 | 70 | 45 | 30 |
| | | 垂直使用 Vertical (kg) | 28 | 18 | 12 | 8 |
| | 定格推力 Rated Thrust (N) | | 1388 | 694 | 347 | 218 |
| | 標準行程 Stroke / Pitch (mm)※2 | | 50-1250mm/50 間隔 50 mm Pitch | | | |
| 部品 Parts | AC伺服馬達容量 AC Servo Motor Output (W) | | 400 | | | |
| | 滾珠螺桿外徑 Ball Screw Ø (mm) | | C7 ϕ16 | | | |
| | 連軸器 Coupling (mm) | | 10X14 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX674(NPN) | | | |

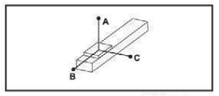
## 感應器接線圖<原點及端點> Sensor Layout




※1 馬達加減速設定0.2秒。
Acceleration and deacceleration value is set 0.2 second.

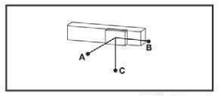
※2 行程超過800時，會產生螺桿偏擺震動，此時請將速度調降。詳細請參考P15頁說明。
When the stroke is over 800mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances. Please refer to P29 for details.

## 容許負載力距表 Allowable Moment



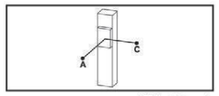
(單位 Unit:mm)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| 導程 5 Lead | 60kg | 2850 | 250 | 340 |
| | 80kg | 2100 | 180 | 250 |
| | 110kg | 1500 | 120 | 170 |
| 導程 10 Lead | 30kg | 2850 | 490 | 600 |
| | 50kg | 1700 | 280 | 350 |
| | 88kg | 950 | 140 | 190 |
| 導程 20 Lead | 10kg | 3400 | 1250 | 1400 |
| | 22kg | 1650 | 550 | 620 |
| | 40kg | 900 | 290 | 330 |
| 導程 32 Lead | 15kg | 1100 | 570 | 550 |
| | 25kg | 620 | 330 | 320 |
| | 30kg | 520 | 270 | 260 |



(單位 Unit:mm)

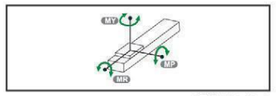
| 壁掛安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| 導程 5 Lead | 55kg | 280 | 280 | 3300 |
| | 75kg | 200 | 195 | 2400 |
| | 110kg | 130 | 125 | 1550 |
| 導程 10 Lead | 35kg | 400 | 410 | 2500 |
| | 55kg | 245 | 250 | 1550 |
| | 88kg | 150 | 150 | 950 |
| 導程 20 Lead | 12kg | 900 | 1070 | 3000 |
| | 20kg | 550 | 630 | 1800 |
| | 40kg | 260 | 300 | 900 |
| 導程 32 Lead | 15kg | 440 | 570 | 1050 |
| | 30kg | 210 | 270 | 520 |
| | - | - | - | - |



(單位 Unit:mm)

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| 導程 5 Lead | 15kg | 1200 | 1200 |
| | 22kg | 820 | 820 |
| | 33kg | 550 | 550 |
| 導程 10 Lead | 10kg | 1600 | 1600 |
| | 14kg | 1150 | 1150 |
| | 22kg | 730 | 730 |
| 導程 20 Lead | 7kg | 1800 | 1800 |
| | 10kg | 1250 | 1250 |
| | - | - | - |
| 導程 32 Lead | 5kg | 1600 | 1600 |
| | 8kg | 1000 | 1000 |
| | - | - | - |

## 靜態容許負載慣量 Static Loading Moment




(單位 Unit:N.m)

| | |
|---|---|
| MY | 1168 |
| MP | 606 |
| MR | 606 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.

※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

※倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

## 搭配伺服馬達一覽表 Suitable Motor Brand

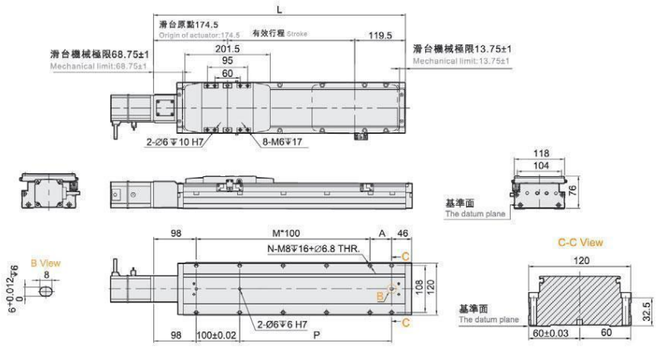
| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watt | 電源電壓 AC-Voltage | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | 無煞車(水平仕樣) No Brake (Horizontal Type) | 400 | 220 | HG-KR43 | MR-J4-40A |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 400 | 220 | HG-KR43B | MR-J4-40A |
| 松下 Panasonic | P | 無煞車(水平仕樣) No Brake (Horizontal Type) | 400 | 220 | MSMD042G1U | MBDHT2510 |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 400 | 220 | MSMD042G1V | MBDHT2510 |
| 台達 Delta | T | 無煞車(水平仕樣) No Brake (Horizontal Type) | 400 | 220 | ECMA-C20604ES | ASD-B20421-B |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 400 | 220 | ECMA-C20604FS | ASD-B20421-B |

## 轨道内嵌式丝杆滑台模组 单轴 STH12系列

## In-line rail ball screw linear slide module 1-axis STH12 series

### BC 馬達外露 Motor Exposed

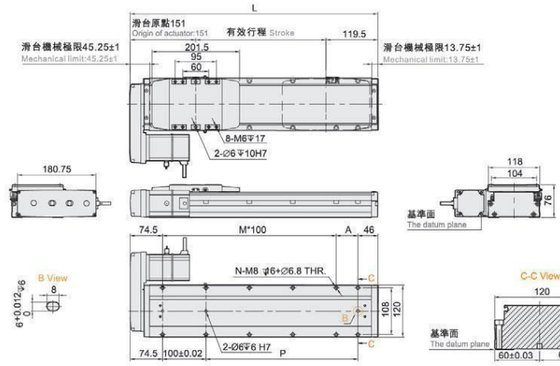
(單位 Unit : mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 344 | 394 | 444 | 494 | 544 | 594 | 644 | 694 | 744 | 794 | 844 | 894 | 944 | 994 | 1044 | 1094 | 1144 | 1194 | 1244 | 1294 | 1344 | 1394 | 1444 | 1494 | 1544 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 |
| KG | 5.05 | 5.4 | 5.75 | 6.1 | 6.45 | 6.8 | 7.15 | 7.5 | 7.85 | 8.2 | 8.55 | 8.9 | 9.25 | 9.6 | 9.95 | 10.3 | 10.65 | 11 | 11.35 | 11.7 | 12.05 | 12.4 | 12.75 | 13.1 | 13.45 |

### BL 馬達左折 Motor Left Side

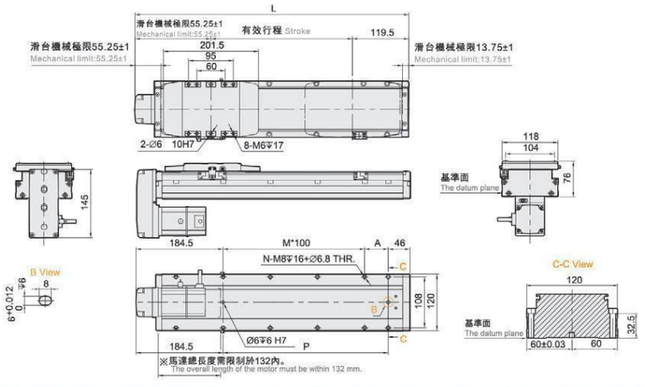
(單位 Unit : mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 | 1070.5 | 1120.5 | 1170.5 | 1220.5 | 1270.5 | 1320.5 | 1370.5 | 1420.5 | 1470.5 | 1520.5 |
| A | 100 | 50 | 100 | 50 | 100 | | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 |
| KG | 5.25 | 5.6 | 5.95 | 6.3 | 6.65 | 7 | 7.35 | 7.7 | 8.05 | 8.4 | 8.75 | 9.1 | 9.45 | 9.8 | 10.15 | 10.85 | 11.2 | 11.55 | 11.9 | 12.25 | 12.6 | 12.56 | 12.91 | 13.26 | 13.61 |

### BM 馬達下折 Motor Bottom Side

(單位 Unit : mm)

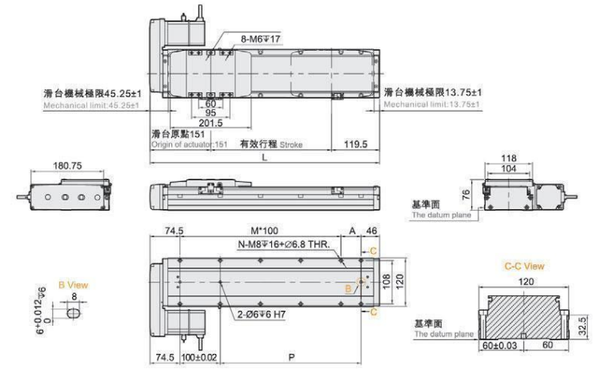



| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 330.5 | 380.5 | 430.5 | 480.5 | 530.5 | 580.5 | 630.5 | 680.5 | 730.5 | 780.5 | 830.5 | 880.5 | 930.5 | 980.5 | 1030.5 | 1080.5 | 1130.5 | 1180.5 | 1230.5 | 1280.5 | 1330.5 | 1380.5 | 1430.5 | 1480.5 | 1530.5 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 |
| N | 4 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 |
| KG | 5.21 | 5.56 | 5.91 | 6.26 | 6.61 | 6.96 | 7.31 | 7.66 | 8.01 | 8.36 | 8.71 | 9.06 | 9.41 | 9.76 | 10.11 | 10.46 | 10.81 | 11.16 | 11.51 | 11.86 | 12.21 | 12.56 | 12.91 | 13.26 | 13.61 |

※馬達下折時，若選用無牽馬達，或是超出馬達總長度限制時無法套用標準PIN孔，如有需求請洽詢可業務。
When motor with brake assembled on lower side, or the total length over than spec limit, it may not use standard pinhole. Please contact our sales department if you need more information & requirement.

### BR 馬達右折 Motor Right Side

(單位 Unit : mm)
(單位 Unit : mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 320.5 | 370.5 | 420.5 | 470.5 | 520.5 | 570.5 | 620.5 | 670.5 | 720.5 | 770.5 | 820.5 | 870.5 | 920.5 | 970.5 | 1020.5 | 1070.5 | 1120.5 | 1170.5 | 1220.5 | 1270.5 | 1320.5 | 1370.5 | 1420.5 | 1470.5 | 1520.5 |
| A | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 | 50 | 100 |
| M | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 8 | 8 | 9 | 9 | 10 | 10 | 11 | 11 | 12 | 12 | 13 | 13 |
| N | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 16 | 16 | 18 | 18 | 20 | 20 | 22 | 22 | 24 | 24 | 26 | 26 | 28 | 28 | 30 | 30 |
| P | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 |
| KG | 5.25 | 5.6 | 5.95 | 6.3 | 6.65 | 7 | 7.35 | 7.7 | 8.05 | 8.4 | 8.75 | 9.1 | 9.45 | 9.8 | 10.15 | 10.85 | 11.2 | 11.55 | 11.9 | 12.25 | 12.6 | 12.56 | 12.91 | 13.26 | 13.61 |

MEMO

滑台系列

# SYTH Series

## 一般環境/螺桿式樣

## Standard/Ball Screw

CONTENTS


一般環境 / 螺桿式樣 Standard/Ball Screw

小型 TYPE
SYTH6
低價格 輕荷重
本體寬幅 60mm
最大行程 800mm……074
最大荷重 10kg

中型 TYPE
SYTH13
低價格 中荷重
本體寬幅 135mm
最大行程 1250mm……092
最大荷重 70kg

小型 TYPE
SYTH8
低價格 輕荷重
本體寬幅 86mm
最大行程 1050mm……078
最大荷重 38kg

標準型 TYPE
SYTH14
本體寬幅 135mm
最大行程 1250mm……098
最大荷重 110kg

中型 TYPE
SYTH10
本體寬幅 102mm
最大行程 1050mm……082
最大荷重 48kg

重型 TYPE
SYTH17
高荷重
本體寬幅 170mm
最大行程 1550mm……104
最大荷重 140kg

中型 TYPE
SYTH12
低價格 中荷重
本體寬幅 102mm
最大行程 1050mm……086
最大荷重 60kg

大型 LARGE
SYTH22
高荷重
本體寬幅 220mm
最大行程 1500mm……110
最大荷重 200kg




滑台模组



最大行程 Maximum Stroke 800mm | 最高速度 Maximum Speed 500mm/s | 馬達容量 Motor Output 100W | 滾珠螺桿 Ball Screw φ12mm | 直線滑軌 Linear Guide 24x8.5-1支

## 型號表示方式 Ordering Method

SYTH6 - L 5 - 100 - BC - P 10 B - C4 - 0001

- 本體型號 Model
- 螺桿品牌 Ball Screw Brand
  - L:標準臺製
  - T–Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 導程 Lead
  - 5:5mm
  - 10:10mm
- 行程 Stroke
  - 100~800
- 馬達連接型式 Motor Position
  - BC:馬達外露 Motor Exposed
  - BM:馬達下折 Motor On Lower Side
  - BR:馬達右折 Motor On Right Side
  - BL:馬達左折 Motor On Left Side
- 馬達廠牌 Motor Brand
  - P: 國際 Panasonic
  - T: 臺達 Delta
  - Y:安川 Yaskawa
  - M:三菱 Mitsubishi
- 馬達功率 Power Output
  - 10:100W
- 煞車 Brake
  - B:With Brake
  - 若無煞車則不表示
- 原點光電固定位置 Home Sensor
  - 外掛型Out Side
  - C: 馬達側 Motor Side
  - D: 反馬達側 OppoSite Motor Side
  - E:無 SENSOR
- 極限光電數量 Limit Sensor
  - 外掛型Out Side
  - 3: 1祇 1Pc
  - 4: 2祇 2Pc
  - 5: 無 SENSOR
- 特注式樣 Special Order NO.

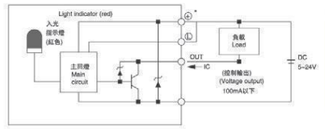
SYTH6 系列丝杆直线模组SYTH6 Series Ball Screw Linear Module

## 基本仕樣 Specification

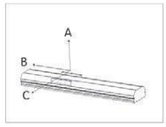
| | | | | |
|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ± 0.01 | |
| | 導程 Lead | | 5 | 10 |
| | 最高速度 Maximum Speed | | 250 | 500 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | 10 | 5 |
| | | 垂直使用 Vertical | 4 | 2 |
| | 定格推力 Rated Thrust | | 335 | 167 |
| | 標準行程 Stroke Pitch | | 100–800mm/50pitch | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output | | 100 | |
| | 滾珠螺桿 外徑 Ball Screw | | C7 Φ12 | |
| | 高剛性直線 滑軌 High Rigidity Linear Guide | | 24X8.5 | |
| | 聯軸器 Coupling | | 8x8 | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE–SX672(NPN) | |

*行程超過600時,會產生螺桿偏擺,此時請將速度調降

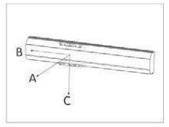
## 感應器接線圖<原點及端點> Sensor Layout



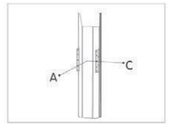

## 容許負載力距表N.m Allowable Overhang



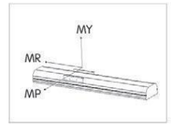

( 單位:mm)




( 單位:mm)




( 單位:mm)




( 單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C | 牆面安裝 Wall Installation | | A | B | C | 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead 5 | 5 kg | 284 | 24 | 55 | Lead 5 | 5kg | 51 | 30 | 300 | Lead 5 | 4kg | 56 | 57 |
| | 10 kg | 120 | 10 | 22 | | 10 kg | 20 | 15 | 195 | | | | |
| Lead 10 | 3kg | 245 | 40 | 80 | Lead 10 | 3kg | 74 | 37 | 231 | Lead 10 | 2kg | 83 | 83 |
| | 5kg | 140 | 33 | 55 | | 5kg | 40 | 25 | 148 | | | | |

水平使用時 Static Loading Moment

| | |
|---|---|
| MY | 50 |
| MP | 60 |
| MR | 75 |

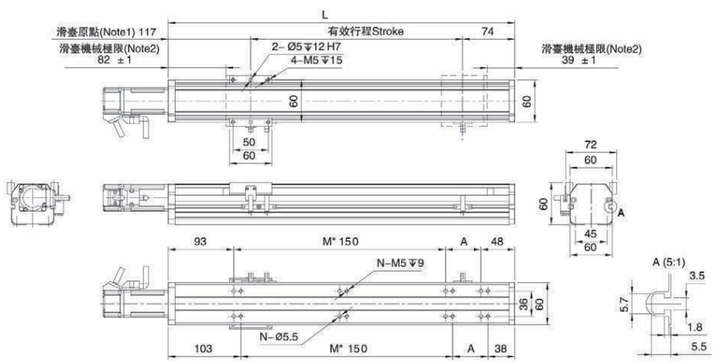
※力距表所示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watp | 電源電壓 AC-Voltage | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | 無煞車 (水平仕樣) No Brake (Horizontal Type) | 100 | 220 | HG-KR13 | MR-J4-10A |
| | | 有煞車 (垂直仕樣) With Brake (Vertical Type) | 100 | 220 | HG-KR13B | MR-J4-10A |
| 國際 Panasonic | P | 無煞車 (水平仕樣) No Brake (Horizontal Type) | 100 | 220 | MSMD012G1U | MADHT1505 |
| | | 有煞車 (垂直仕樣) With Brake (Vertical Type) | 100 | 220 | MSMD012G1V | MADHT1505 |
| 台達 Delta | T | 無煞車 (水平仕樣) No Brake (Horizontal Type) | 100 | 220 | ECMA-C20401ES | ASD-B20121-B |
| | | 有煞車 (垂直仕樣) With Brake (Vertical Type) | 100 | 220 | ECMA-C20401FS | ASD-B20121-B |

## BC 馬達外露 Motor Exposed

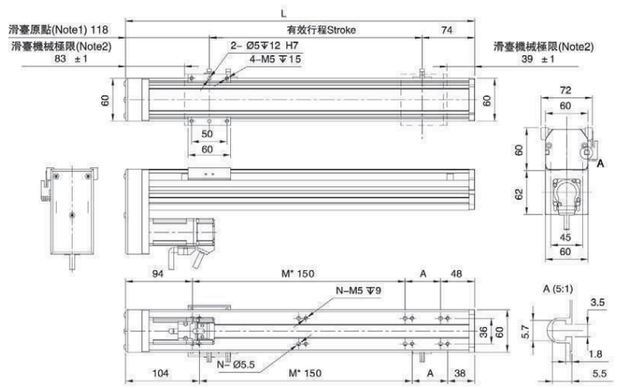
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 291 | 341 | 391 | 441 | 491 | 541 | 591 | 641 | 691 | 741 | 791 | 841 | 891 | 941 | 991 |
| A | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 |
| M | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 14 |
| KG | 2.7 | 2.8 | 3 | 3.2 | 3.4 | 3.6 | 3.7 | 3.9 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 5 | 5.1 |

## BM 馬達下折 Motor On Lower Side

單位(mm)

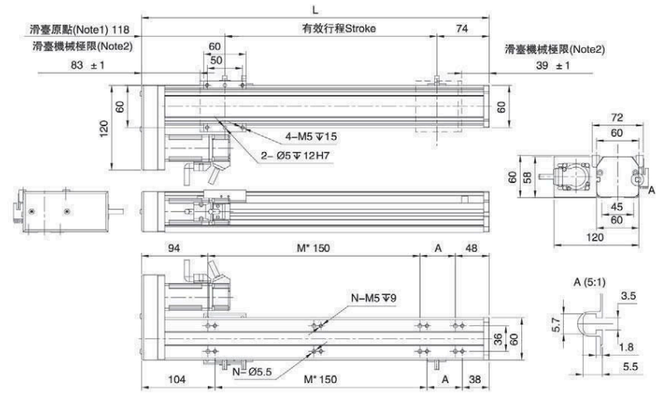



| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 292 | 342 | 392 | 442 | 492 | 542 | 592 | 642 | 692 | 742 | 792 | 842 | 892 | 942 | 992 |
| A | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 |
| M | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 14 |
| KG | 2.7 | 2.8 | 3 | 3.2 | 3.4 | 3.6 | 3.7 | 3.9 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 5 | 5.1 |

SYTH6 系列丝杆直线模组SYTH6 Series Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

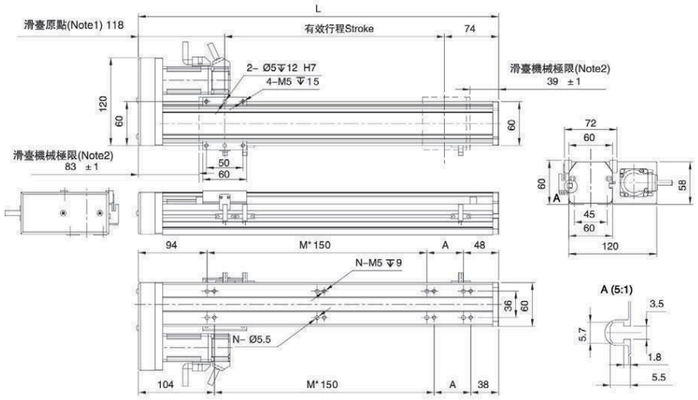
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 292 | 342 | 392 | 442 | 492 | 542 | 592 | 642 | 692 | 742 | 792 | 842 | 892 | 942 | 992 |
| A | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 |
| M | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 14 |
| KG | 2.7 | 2.8 | 3 | 3.2 | 3.4 | 3.6 | 3.7 | 3.9 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 5 | 5.1 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 292 | 342 | 392 | 442 | 492 | 542 | 592 | 642 | 692 | 742 | 792 | 842 | 892 | 942 | 992 |
| A | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 | 150 | 50 | 100 |
| M | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 8 | 8 | 8 | 10 | 10 | 10 | 12 | 12 | 12 | 14 | 14 |
| KG | 2.7 | 2.8 | 3 | 3.2 | 3.4 | 3.6 | 3.7 | 3.9 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 5 | 5.1 |



最大行程 Maximum Stroke 1050mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 200W | 滾珠螺桿 Ball Screw ϕ16mm | 直線滑軌 Linear Guide 15x12.5-1支

## 型號表示方式 Ordering Method

SYTH8 - L 5 - 100 - BC - P20 B-C 4- 0001

- 本體型號 Model
- 導程 Lead: 5mm / 10mm / 16mm / 20mm
- 螺桿品牌 Ball Screw Brand: L:標準臺製 T-Standard MIT / S:STAR / H:HIWIN / K:KURORA / R:THK / N:NSK
- 馬達連接型式 Motor Position: BC:馬達外露 Motor Exposed / BM:馬達下折 Motor On Lower Side / BR:馬達右折 Motor On Right Side / BL:馬達左折 Motor On Left Side
- 行程 Stroke: 100~1050
- 馬達廠牌 Motor Brand: P:國際 Panasonic / T:臺達 Delta / M:三菱 Mitsubishi
- 馬達功率 Power Output: 10:100W / 20:200W / 40:400W
- 煞車 Brake: B:With Brake 若無剎車則不表示
- 原點光電固定位置 Home Sensor: 外掛型 Out Side / C:馬達側 Motor Side / D:反馬達側 OppoSite Motor Side / E:無 SENSOR
- 極限光電數量 Limit Sensor: 外掛型 Out Side 3:1裱 1Pc / 4:2裱 2Pc / 5:無 SENSOR
- 特注式樣 Special Order No.

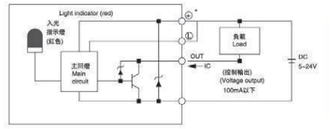
SYTH8 系列丝杆直线模组SYTH8 Series Ball Screw Linear Module

## 基本仕樣 Specification

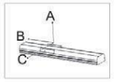
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 16 | 20 |
| | 最高速度 Maximum Speed | | 250 | 500 | 800 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 38 | 24 | 16 | 11 |
| | | 垂直使用 Vertical | 11 | 8 | 5 | 3.5 |
| | 定格推力 Rated Thrust | | 694 | 352 | 221 | 175 |
| | 標準行程 Stroke Pitch | | 100-1050mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (W) | | 200 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7 ϕ16 | | | |
| | 高剛性直線 滑軌 High Rigidity Linear Guide | | 15×12.5 | | | |
| | 聯軸器 Coupling | | 10×11 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |

*行程超過700時,會產生螺桿偏擺,此時請將速度調降

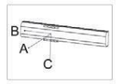
## 感應器接線圖 <原點及端點>Sensor Layout



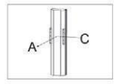

## 容許負戴力距表N.m Allowable Overhang



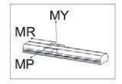
( 單位:mm)



( 單位:mm)



( 單位:mm)



( 單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C | 牆面安裝 Wall Installation | | A | B | C | 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead 5 | 16kg | 800 | 115 | 112 | Lead 5 | 16kg | 75 | 72 | 615 | Lead 5 | 3kg | 305 | 256 |
| | 24kg | 715 | 75 | 80 | | 24kg | 94 | 99 | 345 | | 6kg | 195 | 190 |
| | 38kg | 285 | 72 | 69 | | 38kg | 65 | 50 | 295 | | 11kg | 165 | 135 |
| Lead 10 | 10kg | 705 | 120 | 160 | Lead 10 | 10kg | 115 | 85 | 505 | Lead 10 | 2kg | 425 | 335 |
| | 16kg | 545 | 120 | 105 | | 16kg | 95 | 72 | 260 | | 5kg | 265 | 275 |
| | 24kg | 305 | 81 | 75 | | 24kg | 48 | 38 | 240 | | 8kg | 225 | 180 |
| Lead 16 | 3kg | 565 | 255 | 245 | Lead 16 | 3kg | 145 | 125 | 455 | Lead 16 | 1kg | 360 | 385 |
| | 7kg | 385 | 225 | 160 | | 7kg | 85 | 72 | 330 | | 3kg | 300 | 285 |
| | 16kg | 305 | 152 | 105 | | 16kg | 50 | 50 | 255 | | 5kg | 225 | 175 |
| Lead 20 | 3kg | 640 | 405 | 307 | Lead 20 | 3kg | 330 | 275 | 455 | Lead 20 | 2kg | 255 | 255 |
| | 6kg | 335 | 125 | 105 | | 6kg | 215 | 130 | 250 | | 3.5kg | 215 | 215 |
| | 11kg | 255 | 96 | 96 | | 11kg | 75 | 45 | 235 | | | | |

水平使用時 Static Loading Moment

| | |
|---|---|
| MY | 88 |
| MP | 88 |
| MR | 96 |

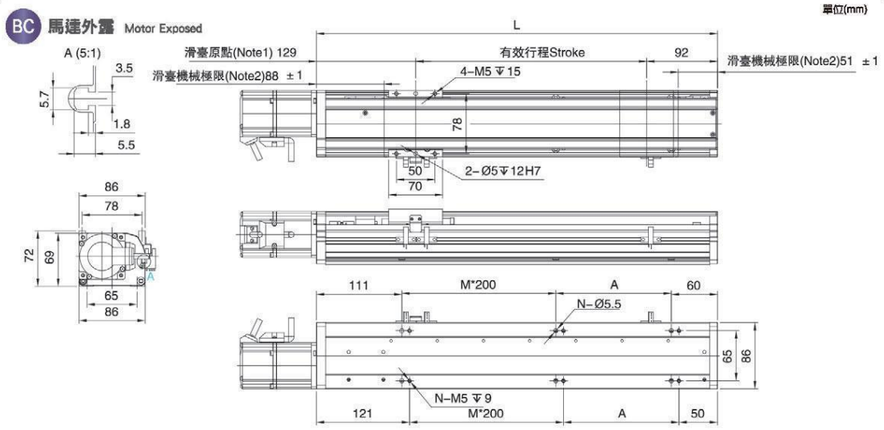
※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC-Voltage AC-V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 200 | 220 | HG-KR23 | MR-J4-20A |
| | | With Brake (Vertical Type) | 200 | 220 | HG-KR23B | MR-J4-20A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 200 | 220 | MHMD022G1U | MADHT1507 |
| | | With Brake (Vertical Type) | 200 | 220 | MHMD022G1V | MADHT1507 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 200 | 220 | ECMA-C20602ES | ASD-B20221-B |
| | | With Brake (Vertical Type) | 200 | 220 | ECMA-C20602FS | ASD-B20221-B |

## BC 馬達外露 Motor Exposed

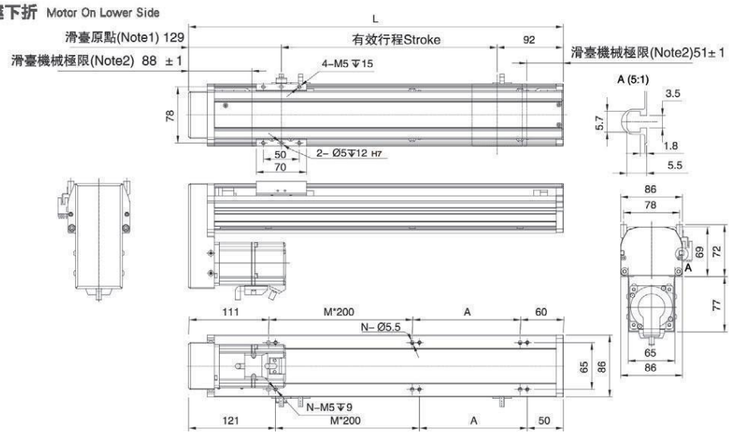
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 321 | 371 | 421 | 471 | 521 | 571 | 621 | 671 | 721 | 771 | 821 | 871 | 921 | 971 | 1021 | 1071 | 1121 | 1171 | 1221 | 1271 |
| A | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 |
| N | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 |
| KG | 4.3 | 4.7 | 5 | 5.3 | 5.7 | 6.1 | 6.5 | 6.9 | 7.3 | 7.6 | 8 | 8.4 | 8.8 | 9.2 | 9.6 | 9.9 | 10.3 | 10.7 | 11.1 | 11.5 |

## BM 馬達下折 Motor On Lower Side

單位(mm)

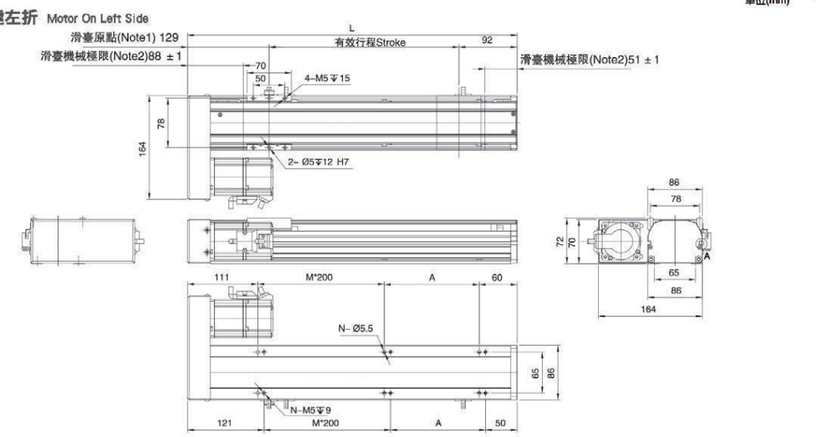



| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 321 | 371 | 421 | 471 | 521 | 571 | 621 | 671 | 721 | 771 | 821 | 871 | 921 | 971 | 1021 | 1071 | 1121 | 1171 | 1221 | 1271 |
| A | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 |
| N | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 |
| KG | 4.3 | 4.7 | 5 | 5.3 | 5.7 | 6.1 | 6.5 | 6.9 | 7.3 | 7.6 | 8 | 8.4 | 8.8 | 9.2 | 9.6 | 9.9 | 10.3 | 10.7 | 11.1 | 11.5 |

SYTH8 系列丝杆直线模组SYTH8 Series Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

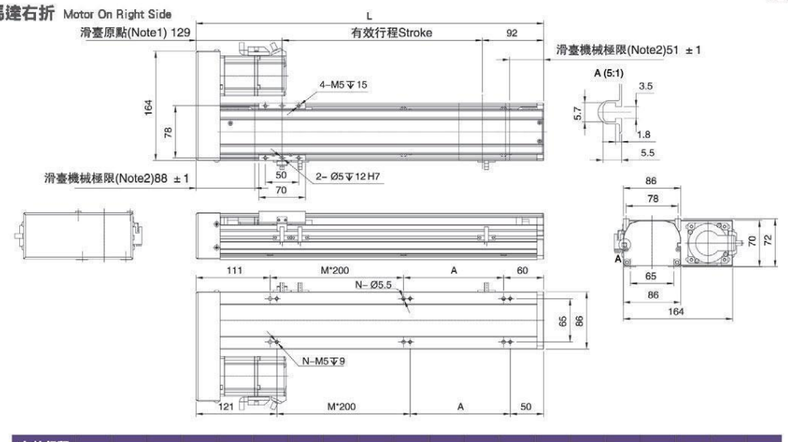
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 321 | 371 | 421 | 471 | 521 | 571 | 621 | 671 | 721 | 771 | 821 | 871 | 921 | 971 | 1021 | 1071 | 1121 | 1171 | 1221 | 1271 |
| A | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 |
| N | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 |
| KG | 4.3 | 4.7 | 5 | 5.3 | 5.7 | 6.1 | 6.5 | 6.9 | 7.3 | 7.6 | 8 | 8.4 | 8.8 | 9.2 | 9.6 | 9.9 | 10.3 | 10.7 | 11.1 | 11.5 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 321 | 371 | 421 | 471 | 521 | 571 | 621 | 671 | 721 | 771 | 821 | 871 | 921 | 971 | 1021 | 1071 | 1121 | 1171 | 1221 | 1271 |
| A | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 |
| N | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 |
| KG | 4.3 | 4.7 | 5 | 5.3 | 5.7 | 6.1 | 6.5 | 6.9 | 7.3 | 7.6 | 8 | 8.4 | 8.8 | 9.2 | 9.6 | 9.9 | 10.3 | 10.7 | 11.1 | 11.5 |



最大行程 Maximum Stroke 1050mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 200W | 滾珠螺桿 Ball Screw φ16mm | 直線滑軌 Linear Guide 20x17.5-1支

## 型號表示方式 Ordering Method

SYTH10 - L 5 - 100 - M - P 20 B - C4 - 0001

- 本體型號 Model
- 螺桿品牌 Ball Screw Brand
  - L:標準臺製
  - T–Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 導程 Lead
  - 5mm
  - 10mm
  - 16mm
  - 20mm
- 行程 Stroke
  - 100~1050
- 馬達連接型式 Motor Position
  - BC：馬達外露 Motor Exposed
  - BM：馬達下折 Motor On Lower Side
  - BR：馬達右折 Motor On Right Side
  - BL：馬達左折 Motor On Left Side
- 馬達廠牌 馬達功率 Motor Brand / Power Output
  - P 國際 Panasonic
  - T 臺達 Delta
  - M 三菱 Mitsubishi
  - 10：100W
  - 20：200W
  - 40：400W
- 煞車 Brake
  - B:With Brake
  - 若無剎車則不表示
- 原點光電固定位置 Home Sensor
  - 內置型 In Side
  - A: 馬達側 Motor Side
  - B: 反馬達側 OppoSite Motor Side
  - 外掛型 Out Side
  - C：馬達側 Motor Side
  - D：反馬達側 OppoSite Motor Side
  - E：無 SENSOR
- 極限光電數量 Limit Sensor
  - 內置型 In Side
    - 1: 1衹 1Pc
    - 2: 2衹 2Pc
  - 外掛型 Out Side
    - 3: 1衹 1 Pc
    - 4: 2衹 2 Pc
    - 5: 無 SENSOR
- 特注式樣 Special Order No.

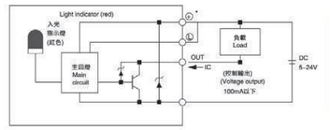
SYTH10 系列丝杆直线模组SYTH10 Series Ball Screw Linear Module

## 基本仕樣 Specification

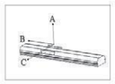
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 16 | 20 |
| | 最高速度 Maximum Speed | | 250 | 500 | 800 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 48 | 32 | 20 | 13 |
| | | 垂直使用 Vertical | 14 | 9 | 6 | 4 |
| | 定格推力 Rated Thrust | | 694 | 372 | 251 | 185 |
| | 標準行程 Stroke Pitch | | 100-1050mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (W) | | 200 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7 ϕ16 | | | |
| | 高剛性直線 滑軌 High Rigidity Linear Guide | | 20×17.5 | | | |
| | 聯軸器 Coupling | | 10×11 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |
| | 原點感應器 Home Sensor | 內置 In side | EE-SX674(NPN) | | | |

*行程超過700時,會產生螺桿偏擺,此時請將速度調降

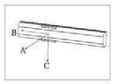
## 感應器接線圖 <原點及端點>Sensor Layout



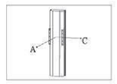

## 容許負載力距表N.m Allowable Overhang



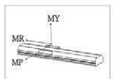
( 單位:mm)



( 單位:mm)



( 單位:mm)



( 單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 20kg | 998 | 140 | 137 |
| | 30kg | 877 | 91 | 100 |
| | 48kg | 364 | 89 | 88 |
| Lead 10 | 12kg | 866 | 154 | 200 |
| | 20kg | 675 | 154 | 130 |
| | 32kg | 375 | 104 | 98 |
| Lead 16 | 4kg | 720 | 360 | 320 |
| | 8kg | 481 | 280 | 200 |
| | 20kg | 381 | 188 | 133 |
| Lead 20 | 4kg | 801 | 521 | 384 |
| | 8kg | 432 | 180 | 164 |
| | 13kg | 380 | 124 | 124 |

| 牆面安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 20kg | 192 | 188 | 760 |
| | 30kg | 112 | 124 | 452 |
| | 48kg | 82 | 50 | 364 |
| Lead 10 | 12 kg | 160 | 108 | 650 |
| | 20 kg | 128 | 88 | 340 |
| | 32 kg | 58 | 44 | 310 |
| Lead 16 | 4 kg | 184 | 144 | 560 |
| | 8 kg | 102 | 88 | 410 |
| | 20 kg | 62 | 62 | 310 |
| Lead 20 | 4 kg | 420 | 360 | 570 |
| | 8 kg | 260 | 1 45 | 310 |
| | 13kg | 88 | 55 | 295 |

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| Lead 5 | 4kg | 380 | 350 |
| | 8kg | 241 | 230 |
| | 14kg | 208 | 170 |
| Lead 10 | 3kg | 528 | 425 |
| | 6kg | 330 | 296 |
| | 10kg | 275 | 218 |
| Lead 16 | 2kg | 450 | 493 |
| | 4kg | 375 | 360 |
| | 6kg | 270 | 220 |
| Lead 20 | 2kg | 330 | 330 |
| | 4kg | 260 | 260 |

水平使用時
Static Loading Moment

| | |
|---|---|
| MY | 110 |
| MP | 110 |
| MR | 120 |

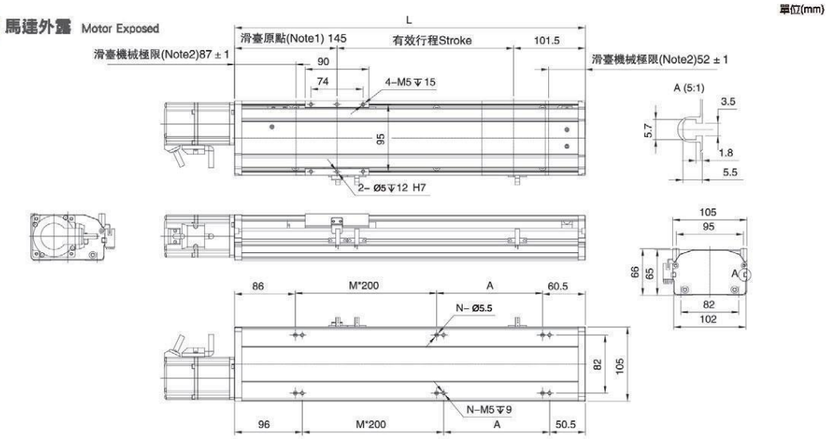
※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC–Voltage AC–V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 200 | 220 | HG-KR23 | MR-J4-20A |
| | | With Brake (Vertical Type) | 200 | 220 | HG-KR23B | MR-J4-20A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 200 | 220 | MHMD022G1U | MADHT1507 |
| | | With Brake (Vertical Type) | 200 | 220 | MHMD022G1V | MADHT1507 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 200 | 220 | ECMA-C20602ES | ASD-B20221-B |
| | | With Brake (Vertical Type) | 200 | 220 | ECMA-C20602FS | ASD-B20221-B |

## BC 馬達外露 Motor Exposed

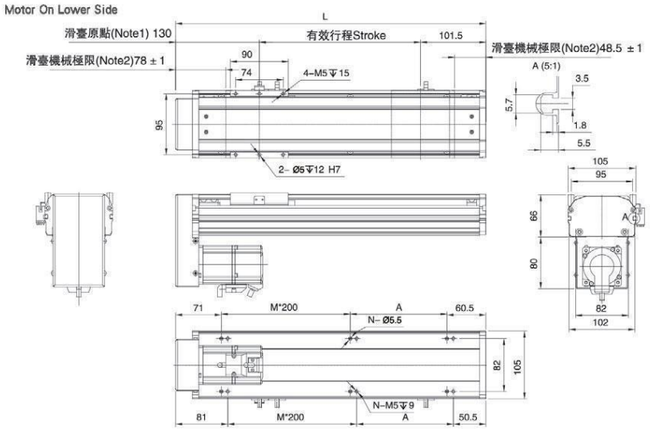
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 346.5 | 396.5 | 446.5 | 496.5 | 546.5 | 596.5 | 646.5 | 696.5 | 746.5 | 796.5 | 846.5 | 896.5 | 946.5 | 996.5 | 1046.5 | 1096.5 | 1146.5 | 1196.5 | 1246.5 | 1296.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 5.5 | 5.8 | 6.2 | 6.6 | 7 | 7.4 | 7.8 | 8.2 | 8.5 | 8.9 | 9.3 | 9.7 | 10.1 | 10.5 | 10.9 | 11.2 | 11.6 | 12 | 12.4 | 12.8 |

## BM 馬達下折 Motor On Lower Side

單位(mm)

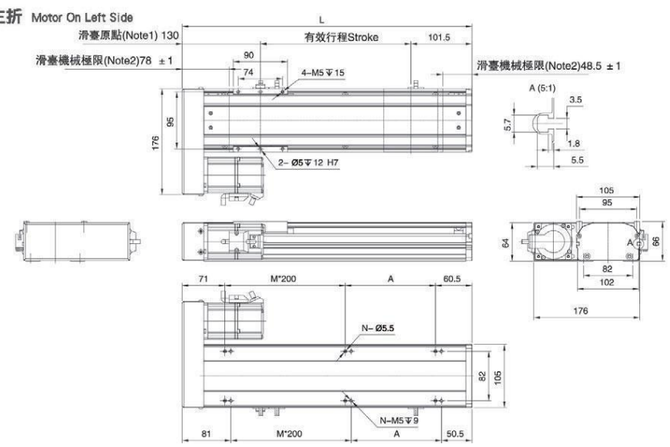



| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 331.5 | 381.5 | 431.5 | 481.5 | 531.5 | 581.5 | 631.5 | 681.5 | 731.5 | 781.5 | 831.5 | 881.5 | 931.5 | 981.5 | 1031.5 | 1081.5 | 1131.5 | 1181.5 | 1231.5 | 1281.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 5.5 | 5.8 | 6.2 | 6.6 | 7 | 7.4 | 7.8 | 8.2 | 8.5 | 8.9 | 9.3 | 9.7 | 10.1 | 10.5 | 10.9 | 11.2 | 11.6 | 12 | 12.4 | 12.8 |

SYTH10 系列丝杆直线模组SYTH10 Series Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

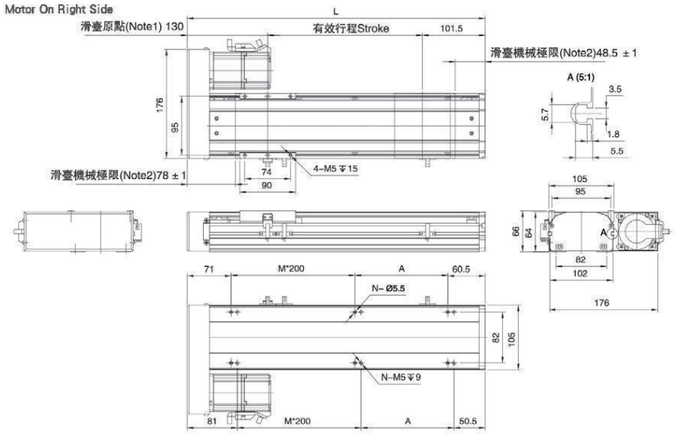
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 331.5 | 381.5 | 431.5 | 481.5 | 531.5 | 581.5 | 631.5 | 681.5 | 731.5 | 781.5 | 831.5 | 881.5 | 931.5 | 981.5 | 1031.5 | 1081.5 | 1131.5 | 1181.5 | 1231.5 | 1281.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 5.5 | 5.8 | 6.2 | 6.6 | 7 | 7.4 | 7.8 | 8.2 | 8.5 | 8.9 | 9.3 | 9.7 | 10.1 | 10.5 | 10.9 | 11.2 | 11.6 | 12 | 12.4 | 12.8 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 331.5 | 381.5 | 431.5 | 481.5 | 531.5 | 581.5 | 631.5 | 681.5 | 731.5 | 781.5 | 831.5 | 881.5 | 931.5 | 981.5 | 1031.5 | 1081.5 | 1131.5 | 1181.5 | 1231.5 | 1281.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 5.5 | 5.8 | 6.2 | 6.6 | 7 | 7.4 | 7.8 | 8.2 | 8.5 | 8.9 | 9.3 | 9.7 | 10.1 | 10.5 | 10.9 | 11.2 | 11.6 | 12 | 12.4 | 12.8 |



最大行程 Maximum Stroke 1050mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 200W | 滾珠螺桿 Ball Screw φ16mm | 直線滑軌 Linear Guide 15x12.5-2支

## 型號表示方式 Ordering Method

SYTH12 - L 5 - 100 - M - P 20 B - C4 - 0001

- 本體型號 Model
- 螺桿品牌 Ball Screw Brand
  - L:標準臺製
  - T–Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 導程 Lead
  - 5 :5mm
  - 10:10mm
  - 16:16mm
  - 20:20mm
- 行程 Stroke
  - 100~1050
- 馬達連接型式 Motor Position
  - M: 馬達直結 Motor built–in
  - BC: 馬達外露 Motor Exposed
  - BM: 馬達下折 Motor On Lower Side
  - BR: 馬達右折 Motor On Right Side
  - BL: 馬達左折 Motor On Left Side
- 馬達廠牌 Motor Brand
  - P: 國際 Panasonic
  - T: 臺達 Delta
  - Y:安川 Yaskawa
  - M:三菱 Mitsubishi
- 馬達功率 Power Output
  - 10:100W
  - 20:200W
  - 40:400W
- 煞車 Brake
  - B:With Brake
  - 若無煞車則不表示
- 原點光電固定位置 Home Sensor
  - 內置型 In Side
    - A: 馬達側 Motor Side
    - B: 反馬達側 OppoSite Motor Side
  - 外掛型 Out Side
    - C: 馬達側 Motor Side
    - D: 反馬達側 OppoSite Motor Side
    - E: 無 SENSOR
- 極限光電數量 Limit Sensor
  - 內置型 In Side
    - 1:1祇 1Pc
    - 2:2祇 2Pc
  - 外掛型 Out Side
    - 3: 1祇 1 Pc
    - 4: 2祇 2 Pc
    - 5: 無 SENSOR
- 特注式樣 Special Order NO.

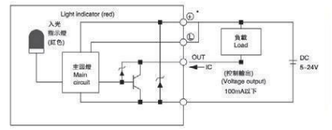
SYTH12 系列丝杆直线模组SYTH12 Series Ball Screw Linear Module

## 基本仕樣 Specification

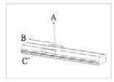
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 16 | 20 |
| | 最高速度 Maximum Speed | | 250 | 500 | 800 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 60 | 40 | 25 | 17 |
| | | 垂直使用 Vertical (kg) | 18 | 12 | 7 | 5 |
| | 定格推力 Rated Thrust | | 694 | 372 | 251 | 185 |
| | 標準行程 Stroke Pitch | | 100-1050mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (W) | | 200 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7 ϕ16 | | | |
| | 高剛性直線 滑軌 High Rigidity Linear Guide(mm) | | 15 x 12.5 | | | |
| | 聯軸器 Coupling | | 10×11 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |
| | 原點感應器 Home Sensor | 內置 In side | EE-SX674(NPN) | | | |

*行程超過700時,會產生螺桿偏擺,此時請將速度調降

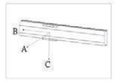
## 感應器接線圖 <原點及端點>Sensor Layout



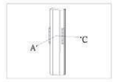

## 容許負戴力距表N.m Allowable Overhang



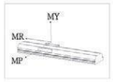
( 單位:mm)



( 單位:mm)



( 單位:mm)



( 單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 30kg | 998 | 140 | 137 |
| | 40kg | 877 | 91 | 100 |
| | 60kg | 364 | 89 | 88 |
| Lead 10 | 15kg | 866 | 154 | 200 |
| | 25kg | 675 | 154 | 130 |
| | 40kg | 375 | 104 | 98 |
| Lead 16 | 5kg | 720 | 360 | 320 |
| | 10kg | 481 | 288 | 200 |
| | 25kg | 381 | 188 | 133 |
| Lead 20 | 5kg | 801 | 521 | 384 |
| | 10kg | 432 | 180 | 164 |
| | 17kg | 380 | 124 | 124 |

| 牆面安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 30kg | 192 | 188 | 760 |
| | 40kg | 112 | 124 | 452 |
| | 60kg | 82 | 50 | 364 |
| Lead 10 | 15kg | 160 | 108 | 650 |
| | 25kg | 128 | 88 | 340 |
| | 40kg | 58 | 44 | 310 |
| Lead 16 | 5kg | 184 | 144 | 560 |
| | 10kg | 102 | 88 | 410 |
| | 25kg | 62 | 62 | 310 |
| Lead 20 | 5kg | 420 | 360 | 570 |
| | 10kg | 260 | 145 | 310 |
| | 17kg | 88 | 55 | 295 |

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| Lead 5 | 5kg | 380 | 350 |
| | 10kg | 241 | 230 |
| | 18kg | 208 | 170 |
| Lead 10 | 4kg | 528 | 425 |
| | 8kg | 330 | 296 |
| | 12kg | 275 | 218 |
| Lead 16 | 2kg | 450 | 493 |
| | 5kg | 375 | 360 |
| | 7kg | 270 | 220 |
| Lead 20 | 3kg | 330 | 330 |
| | 5kg | 260 | 260 |

水平使用時
Static Loading Moment

| | |
|---|---|
| MY | 150 |
| MP | 150 |
| MR | 130 |

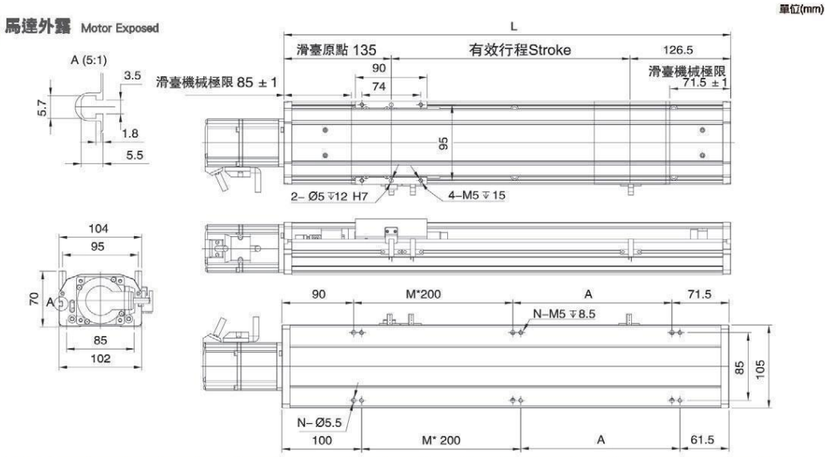
※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC–Voltage AC–V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 200 | 220 | HG-KR23 | MR-J4-20A |
| | | With Brake (Vertical Type) | 200 | 220 | HG-KR23B | MR-J4-20A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 200 | 220 | MHMD022G1U | MADHT1507 |
| | | With Brake (Vertical Type) | 200 | 220 | MHMD022G1V | MADHT1507 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 200 | 220 | ECMA-C20602ES | ASD-B20221-B |
| | | With Brake (Vertical Type) | 200 | 220 | ECMA-C20602FS | ASD-B20221-B |

## BC 馬達外露 Motor Exposed

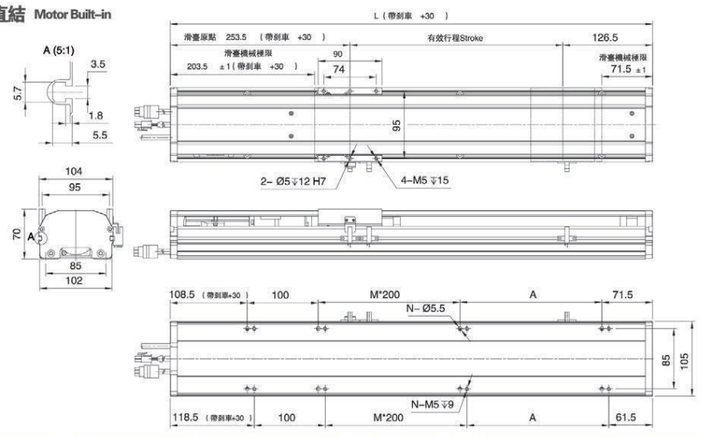
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 361.5 | 411.5 | 461.5 | 511.5 | 561.5 | 611.5 | 661.5 | 711.5 | 761.5 | 811.5 | 861.5 | 911.5 | 961.5 | 1011.5 | 1061.5 | 1111.5 | 1161.5 | 1211.5 | 1261.5 | 1311.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 6.6 | 7 | 7.4 | 8.8 | 8.2 | 8.6 | 9 | 9.4 | 9.7 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 | 12.1 | 12.4 | 12.8 | 13.2 | 13.6 | 14 |

## M 馬達直結 Motor Built-in

單位(mm)

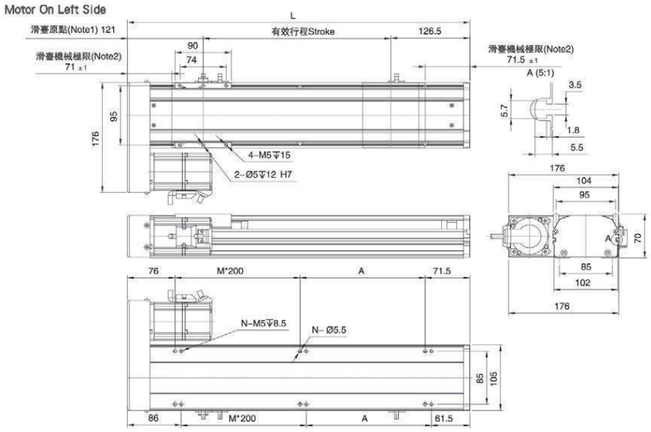



| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 480 | 530 | 580 | 630 | 680 | 730 | 780 | 830 | 880 | 930 | 980 | 1030 | 1080 | 1130 | 1180 | 1230 | 1280 | 1330 | 1380 | 1430 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| KG | 6.6 | 7 | 7.4 | 8.8 | 8.2 | 8.6 | 9 | 9.4 | 9.7 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 | 12.1 | 12.4 | 12.8 | 13.2 | 13.6 | 14 |

SYTH12 系列丝杆直线模组SYTH12 Series Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

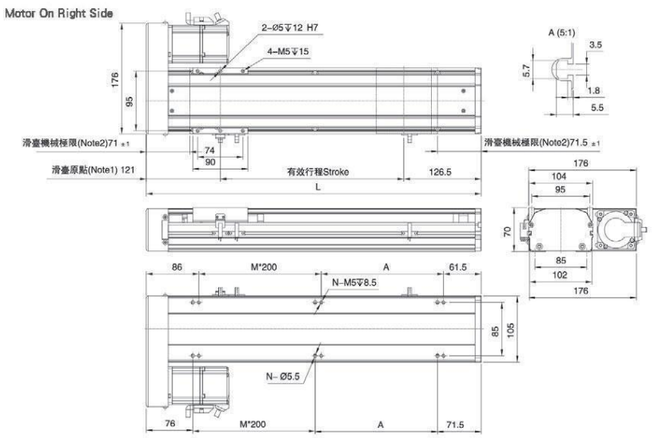
單位(mm)



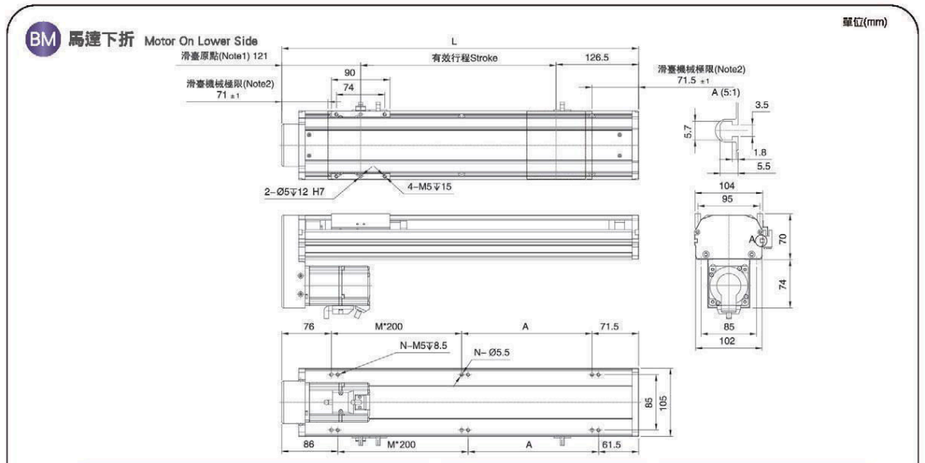

| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 347.5 | 397.5 | 447.5 | 497.5 | 547.5 | 597.5 | 647.5 | 697.5 | 747.5 | 797.5 | 847.5 | 897.5 | 947.5 | 997.5 | 1047.5 | 1097.5 | 1147.5 | 1197.5 | 1247.5 | 1297.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 6.6 | 7 | 7.4 | 8.8 | 8.2 | 8.6 | 9 | 9.4 | 9.7 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 | 12.1 | 12.4 | 12.8 | 13.2 | 13.6 | 14 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 347.5 | 397.5 | 447.5 | 497.5 | 547.5 | 597.5 | 647.5 | 697.5 | 747.5 | 797.5 | 847.5 | 897.5 | 947.5 | 997.5 | 1047.5 | 1097.5 | 1147.5 | 1197.5 | 1247.5 | 1297.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 6.6 | 7 | 7.4 | 8.8 | 8.2 | 8.6 | 9 | 9.4 | 9.7 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 | 12.1 | 12.4 | 12.8 | 13.2 | 13.6 | 14 |




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 347.5 | 397.5 | 447.5 | 497.5 | 547.5 | 597.5 | 647.5 | 697.5 | 747.5 | 797.5 | 847.5 | 897.5 | 947.5 | 997.5 | 1047.5 | 1097.5 | 1147.5 | 1197.5 | 1247.5 | 1297.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 6.6 | 7 | 7.4 | 8.8 | 8.2 | 8.6 | 9 | 9.4 | 9.7 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 | 12.1 | 12.4 | 12.8 | 13.2 | 13.6 | 14 |

SYTH12 系列丝杆直线模组SYTH12 Series Ball Screw Linear Module

## MEMO



最大行程 Maximum Stroke 1250mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 400W | 滾珠螺桿 Ball Screw 16or⌀20mm | 直線滑軌 Linear Guide 15x12.5-2支

## 型號表示方式 Ordering Method

SYTH13 - L 5 - 100 - M - P 40 B - C4 - 0001

- SYTH13 本體型號 Model
- L 螺桿品牌 Ball Screw Brand
  - L:標準臺製 T-Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 5 導程 Lead
  - 5 :5mm
  - 10:10mm
  - 16:16mm
  - 20:20mm
- 100 行程 Stroke 100~1250
- M 馬達連接型式 Motor Position
  - M: 馬達直結 Motor built-in
  - BC: 馬達外露 Motor Exposed
  - BM: 馬達下折 Motor On Lower Side
  - BR: 馬達右折 Motor On Right Side
  - BL: 馬達左折 Motor On Left Side
- P 馬達廠牌 Motor Brand
  - P 國際 Panasonic
  - T 臺達 Delta
  - M 三菱 Mitsubishi
- 40 馬達功率 Power Output
  - 20:200W
  - 40:400W
- B 煞車 Brake
  - B:With Brake 若無剎車則不表示
- C4 原點光電固定位置 Home Sensor
  - 內置型 In Side
    - A: 馬達側 Motor Side
    - B: 反馬達側 OppoSite Motor Side
  - 外掛型 Out Side
    - C: 馬達側 Motor Side
    - D: 反馬達側 OppoSite Motor Side
    - E: 無 SENSOR
- 0001 特注式樣 Special Order NO.
  - 內置型 In Side 1:1祇 1Pc 2:2祇 2Pc
  - 外掛型 Out Side 3: 1祇 1Pc 4: 2祇 2Pc 5: 無 SENSOR

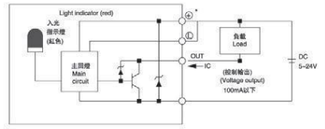
SYTH13 系列丝杆直线模组SYTH13 Series Ball Screw Linear Module

## 基本仕樣 Specification

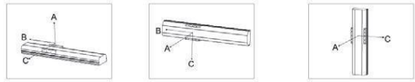
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 16 | 20 |
| | 最高速度 Maximum Speed | | 250 | 500 | 800 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 70 | 47 | 30 | 26 |
| | | 垂直使用 Vertical (kg) | 22 | 14 | 9 | 8 |
| | 定格推力 Rated Thrust | | 1388 | 694 | 413 | 385 |
| | 標準行程 Stroke Pitch | | 100-1250mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output (W) | | 400 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7 Ø16 or Ø20 | | | |
| | 高剛性直線 滑軌 High Rigidity Linear Guide (mm) | | 15x12.5 | | | |
| | 聯軸器 Coupling | | 14x10 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |
| | 原點感應器 Home Sensor | 內置 In side | EE-SX674(NPN) | | | |

*行程超過900時,會產生螺桿偏擺,此時請將速度調降

## 感應器接線圖 <原點及端點>Sensor Layout




## 容許負戴力距表N.m Allowable Overhang



( 單位:mm)

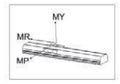


( 單位:mm)



( 單位:mm)

| 水平安裝 Horizontal Installation | | A | B | C | 牆面安裝 Wall Installation | | A | B | C | 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead 5 | 40kg | 1248 | 156 | 172 | Lead 5 | 40kg | 114 | 112 | 904 | Lead 5 | 5kg | 482 | 414 |
| | 55kg | 1097 | 137 | 127 | | 55kg | 165 | 170 | 565 | | 13kg | 327 | 289 |
| | 70kg | 755 | 117 | 119 | | 70kg | 105 | 105 | 455 | | 22kg | 258 | 243 |
| Lead 10 | 15kg | 1158 | 180 | 250 | Lead 10 | 15kg | 204 | 163 | 857 | Lead 10 | 4kg | 665 | 501 |
| | 35kg | 860 | 180 | 163 | | 35kg | 125 | 105 | 769 | | 9kg | 451 | 367 |
| | 47kg | 525 | 127 | 123 | | 47kg | 65 | 65 | 381 | | 14kg | 344 | 273 |
| Lead 16 | 8kg | 900 | 430 | 400 | Lead 16 | 8kg | 231 | 182 | 710 | Lead 16 | 2kg | 567 | 617 |
| | 18kg | 610 | 280 | 250 | | 18kg | 134 | 118 | 527 | | 4kg | 507 | 405 |
| | 30kg | 577 | 235 | 164 | | 30kg | 98 | 95 | 432 | | 9kg | 377 | 303 |
| Lead 20 | 5kg | 1005 | 551 | 480 | Lead 20 | 5kg | 541 | 485 | 760 | Lead 20 | 3kg | 690 | 690 |
| | 15kg | 870 | 225 | 210 | | 15kg | 305 | 231 | 380 | | 5kg | 475 | 475 |
| | 26kg | 450 | 180 | 155 | | 26kg | 110 | 88 | 345 | | 8kg | 350 | 345 |



( 單位:N.m)

水平使用時
Static Loading Moment

| | |
|---|---|
| MY | 174 |
| MP | 175 |
| MR | 153 |

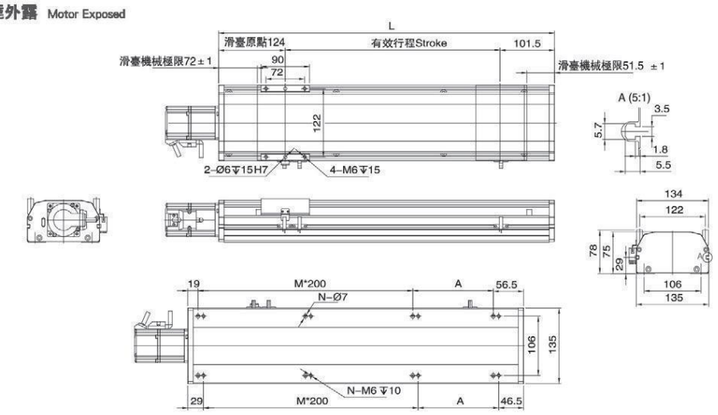
※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC-Voltage AC-V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 400 | 220 | HG-KR43 | MR-J4-40A |
| | | With Brake (Vertical Type) | 400 | 220 | HG-KR43B | MR-J4-40A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 400 | 220 | MHMD042G1U | MADHT2510 |
| | | With Brake (Vertical Type) | 400 | 220 | MHMD042G1V | MADHT2510 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 400 | 220 | ECMA-C20604ES | ASD-B20421-B |
| | | With Brake (Vertical Type) | 400 | 220 | ECMA-C20604FS | ASD-B20421-B |

## BC 馬達外露 Motor Exposed

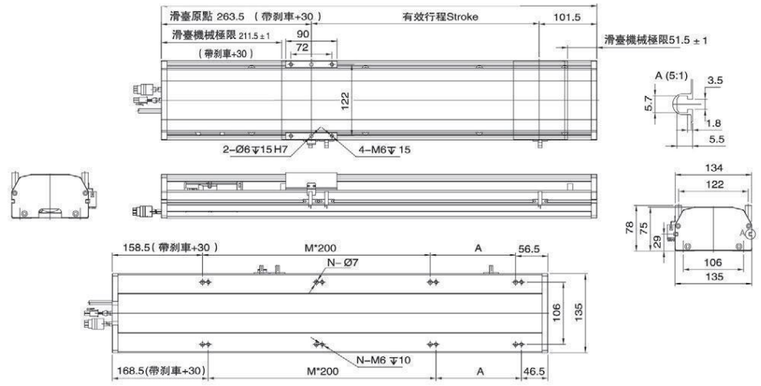
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 325.5 | 375.5 | 425.5 | 475.5 | 525.5 | 575.5 | 625.5 | 675.5 | 725.5 | 775.5 | 825.5 | 875.5 | 925.5 | 975.5 | 1025.5 | 1075.5 | 1125.5 | 1175.5 | 1225.5 | 1275.5 | 1325.5 | 1375.5 | 1425.5 | 1475.5 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 16 |
| KG | 7.4 | 7.8 | 8.3 | 8.8 | 9.3 | 9.8 | 10.2 | 10.8 | 11.2 | 11.8 | 12.2 | 12.7 | 13.2 | 13.7 | 14.2 | 14.7 | 15.2 | 15.7 | 16.1 | 16.7 | 17.3 | 17.9 | 18.6 | 19.2 |

## M 馬達直結 Motor Built-in

單位(mm)

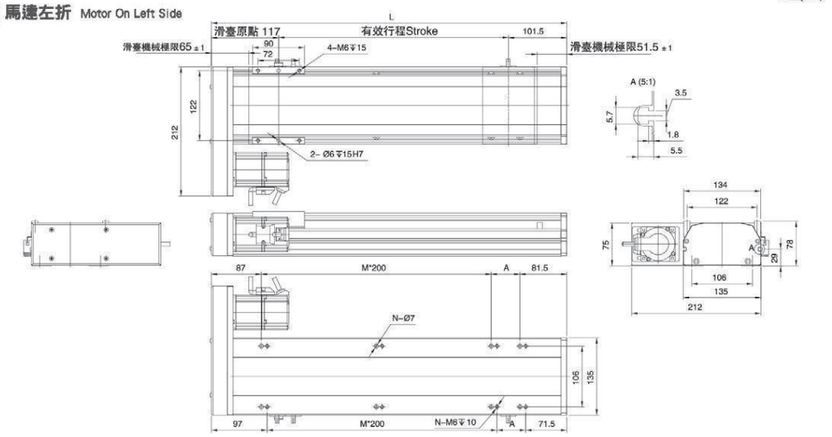



| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 465 | 515 | 565 | 615 | 665 | 715 | 765 | 815 | 865 | 915 | 965 | 1015 | 1065 | 1115 | 1165 | 1215 | 1265 | 1315 | 1365 | 1415 | 1465 | 1515 | 1565 | 1615 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| KG | 7.8 | 8.3 | 8.8 | 9.3 | 9.8 | 10.2 | 10.8 | 11.2 | 11.8 | 12.2 | 12.7 | 13.2 | 13.7 | 14.2 | 14.7 | 15.2 | 15.7 | 16.1 | 16.7 | 17.3 | 17.9 | 18.6 | 19.2 | 19.6 |

SYTH13 系列丝杆直线模组SYTH13 Series Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

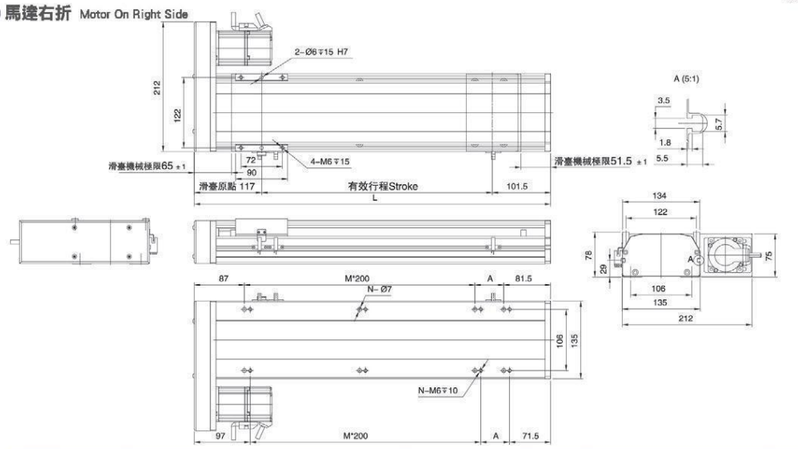
單位(mm)



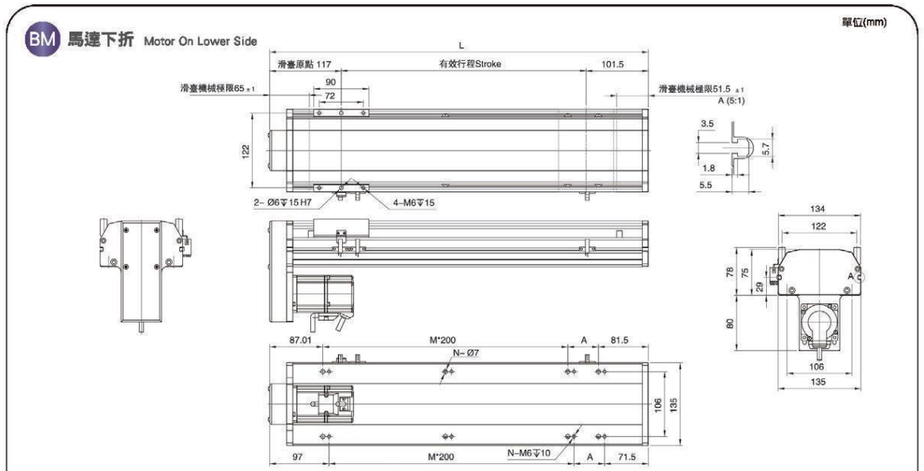

| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 318.5 | 368.5 | 418.5 | 468.5 | 518.5 | 568.5 | 618.5 | 668.5 | 718.5 | 768.5 | 818.5 | 868.5 | 918.5 | 968.5 | 1018.5 | 1068.5 | 1118.5 | 1168.5 | 1218.5 | 1268.5 | 1318.5 | 1368.5 | 1418.5 | 1468.5 |
| A | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 |
| N | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 |
| KG | 7.4 | 7.8 | 8.3 | 8.8 | 9.3 | 9.8 | 10.2 | 10.8 | 11.2 | 11.8 | 12.2 | 12.7 | 13.2 | 13.7 | 14.2 | 14.7 | 15.2 | 15.7 | 16.1 | 16.7 | 17.3 | 17.9 | 18.6 | 19.2 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 318.5 | 368.5 | 418.5 | 468.5 | 518.5 | 568.5 | 618.5 | 668.5 | 718.5 | 768.5 | 818.5 | 868.5 | 918.5 | 968.5 | 1018.5 | 1068.5 | 1118.5 | 1168.5 | 1218.5 | 1268.5 | 1318.5 | 1368.5 | 1418.5 | 1468.5 |
| A | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 |
| N | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 |
| KG | 7.4 | 7.8 | 8.3 | 8.8 | 9.3 | 9.8 | 10.2 | 10.8 | 11.2 | 11.8 | 12.2 | 12.7 | 13.2 | 13.7 | 14.2 | 14.7 | 15.2 | 15.7 | 16.1 | 16.7 | 17.3 | 17.9 | 18.6 | 19.2 |




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 318.5 | 368.5 | 418.5 | 468.5 | 518.5 | 568.5 | 618.5 | 668.5 | 718.5 | 768.5 | 818.5 | 868.5 | 918.5 | 968.5 | 1018.5 | 1068.5 | 1118.5 | 1168.5 | 1218.5 | 1268.5 | 1318.5 | 1368.5 | 1418.5 | 1468.5 |
| A | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 |
| N | 4 | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 |
| KG | 7.4 | 7.8 | 8.3 | 8.8 | 9.3 | 9.8 | 10.2 | 10.8 | 11.2 | 11.8 | 12.2 | 12.7 | 13.2 | 13.7 | 14.2 | 14.7 | 15.2 | 15.7 | 16.1 | 16.7 | 17.3 | 17.9 | 18.6 | 19.2 |

SYTH13 系列丝杆直线模组SYTH13 Series Ball Screw Linear Module

## MEMO



最大行程 Maximum Stroke 1250mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 400W | 滾珠螺桿 Ball Screw ϕ16or20mm | 直線滑軌 Linear Guide 15x12.5-2支

## 型號表示方式 Ordering Method

SYTH14 - L 5 - 100 - M - P 40 B - C4 - 0001

- 本體型號 Model
- 螺桿品牌 Ball Screw Brand
  - L:標準臺製 T-Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 導程 Lead
  - 5:5mm
  - 10:10mm
  - 16:16mm
  - 20:20mm
- 馬達連接型式 Motor Position
  - M: 馬達直結 Motor built-in
  - BC: 馬達外露 Motor Exposed
  - BM: 馬達下折 Motor On Lower Side
  - BR: 馬達右折 Motor On Right Side
  - BL: 馬達左折 Motor On Left Side
- 行程 Stroke
  - 100~1250
- 馬達廠牌 Motor Brand
  - P: 國際 Panasonic
  - T: 臺達 Delta
  - M:三菱 Mitsubishi
- 馬達功率 Power Output
  - 20:200W
  - 40:400W
- 煞車
  - B:With Brake
  - 若無剎車
  - 則不表示
- 原點光電固定位置 Home Sensor
  - 內置型 In Side
  - A: 馬達側 Motor Side
  - B: 反馬達側 OppoSite Motor Side
  - 外掛型 Out Side
  - C: 馬達側 Motor Side
  - D: 反馬達側 OppoSite Motor Side
  - E: 無 SENSOR
- 極限光電數量 Limit Sensor
  - 內置型 In Side
    - 1: 1衹 1Pc
    - 2: 2衹 2Pc
  - 外衹型 Out Side
    - 3: 1衹 1 Pc
    - 4: 2衹 2 Pc
    - 5: 無 SENSOR
- 特注式樣 Special Order NO.

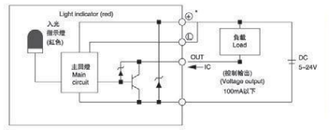
SYTH14 系列丝杆直线模组SYTH14 Series Ball Screw Linear Module

## 基本仕樣 Specification

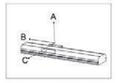
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 16 | 20 |
| | 最高速度 Maximum Speed | | 250 | 500 | 800 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | 110 | 88 | 52 | 45 |
| | | 垂直使用 Vertical | 33 | 22 | 15 | 13 |
| | 定格推力 Rated Thrust | | 1388 | 694 | 413 | 385 |
| | 標準行程 Stroke Pitch | | 100-1250mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output | | 400 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7 Ø16 or Ø20 | | | |
| | 高剛性直線 滑軌 High Rigidity Linear Guide | | 15x12.5 | | | |
| | 聯軸器 Coupling | | 10x14 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |
| | | 內置 In side | EE-SX674(NPN) | | | |

*行程超過900時,會產生螺桿偏擺,此時請將速度調降

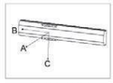
## 感應器接線圖 <原點及端點>Sensor Layout



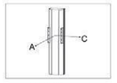

## 容許負戴力距表N.m Allowable Overhang



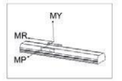
( 單位:mm)



( 單位:mm)



( 單位:mm)



( 單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C | 牆面安裝 Wall Installation | | A | B | C | 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead 5 | 60kg | 1348 | 316 | 322 | Lead 5 | 60kg | 204 | 212 | 1314 | Lead 5 | 20kg | 762 | 614 |
| | 80kg | 1197 | 247 | 257 | | 80kg | 130 | 157 | 1115 | | 25kg | 607 | 489 |
| | 110kg | 1075 | 207 | 219 | | 110kg | 105 | 124 | 895 | | 33kg | 498 | 483 |
| Lead 10 | 30kg | 1558 | 370 | 490 | Lead 10 | 30kg | 414 | 333 | 1577 | Lead 10 | 10kg | 1365 | 1101 |
| | 50kg | 1160 | 370 | 333 | | 50kg | 235 | 157 | 1129 | | 15kg | 901 | 727 |
| | 88kg | 725 | 470 | 243 | | 88kg | 129 | 137 | 651 | | 22kg | 574 | 543 |
| Lead 16 | 10kg | 1365 | 874 | 861 | Lead 16 | 10kg | 461 | 372 | 11310 | Lead 16 | 3kg | 1067 | 1217 |
| | 30kg | 902 | 515 | 497 | | 30kg | 264 | 178 | 927 | | 9kg | 997 | 805 |
| | 52kg | 547 | 285 | 284 | | 52kg | 214 | 169 | 432 | | 15kg | 587 | 603 |
| Lead 20 | 10kg | 1163 | 972 | 858 | Lead 20 | 10kg | 897 | 917 | 1109 | Lead 20 | 4kg | 1402 | 1018 |
| | 25kg | 800 | 552 | 535 | | 25kg | 513 | 555 | 885 | | 9kg | 901 | 766 |
| | 45kg | 552 | 348 | 328 | | 45kg | 268 | 231 | 540 | | 13kg | 585 | 615 |

水平使用時
Static Loading Moment

| | |
|---|---|
| MY | 551 |
| MP | 552 |
| MR | 485 |

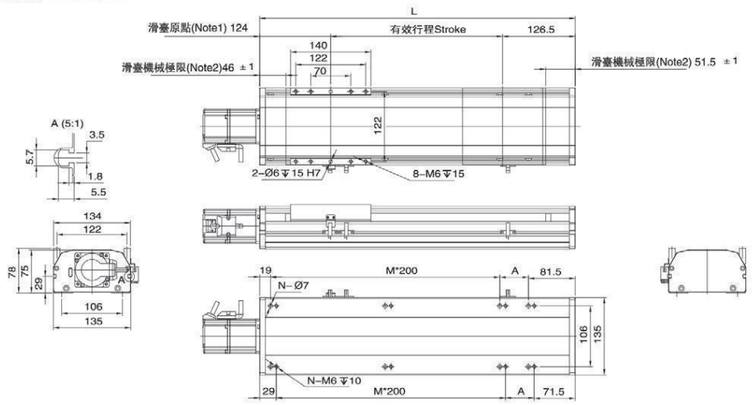
※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC-Voltage AC-V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 400 | 220 | HG-KR43 | MR-J4-40A |
| | | With Brake (Vertical Type) | 400 | 220 | HG-KR43B | MR-J4-40A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 400 | 220 | MHMD042G1U | MADHT2510 |
| | | With Brake (Vertical Type) | 400 | 220 | MHMD042G1V | MADHT2510 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 400 | 220 | ECMA-C20604ES | ASD-B20421-B |
| | | With Brake (Vertical Type) | 400 | 220 | ECMA-C20604FS | ASD-B20421-B |

## BC 馬達外露 Motor Exposed

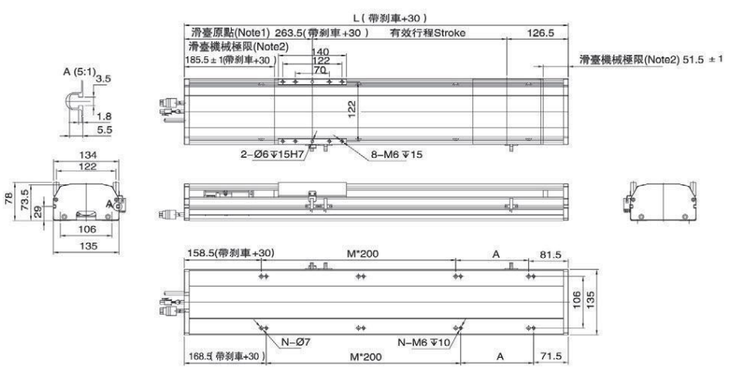
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 350.5 | 400.5 | 450.5 | 500.5 | 550.5 | 600.5 | 650.5 | 700.5 | 750.5 | 800.5 | 850.5 | 900.5 | 950.5 | 1000.5 | 1050.5 | 1100.5 | 1150.5 | 1200.5 | 1250.5 | 1300.5 | 1350.5 | 1400.5 | 1450.5 | 1500.5 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| KG | 7.6 | 8 | 8.5 | 9 | 9.5 | 10 | 10.4 | 11 | 11.4 | 12 | 12.4 | 12.9 | 13.4 | 13.9 | 14.4 | 14.9 | 15.4 | 15.9 | 16.3 | 16.9 | 16 | 16.6 | 17.2 | 17.8 |

## M 馬達直結 MotorBuilt-in

單位(mm)

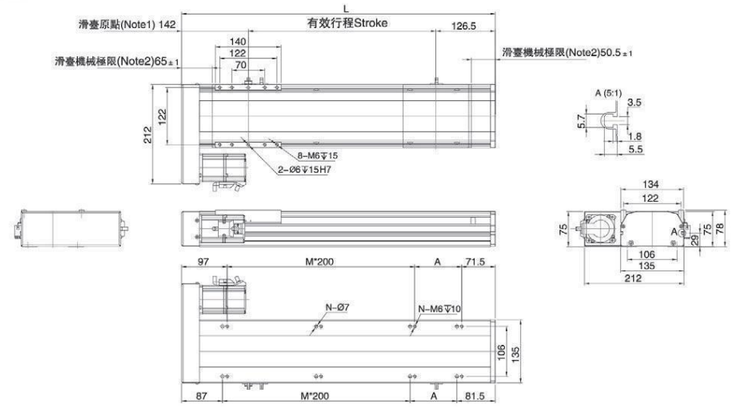



| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 490 | 540 | 590 | 640 | 690 | 740 | 790 | 840 | 890 | 940 | 990 | 1040 | 1090 | 1140 | 1190 | 1240 | 1290 | 1340 | 1390 | 1440 | 1490 | 1540 | 1590 | 1640 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| KG | 8.5 | 9 | 9.5 | 10 | 10.4 | 11 | 11.4 | 12 | 12.4 | 12.9 | 13.4 | 13.9 | 14.4 | 14.9 | 15.4 | 15.9 | 16.3 | 16.9 | 16 | 16.6 | 17.2 | 17.8 | 18.3 | 18.8 |

SYTH14 系列丝杆直线模组SYTH14 Series Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

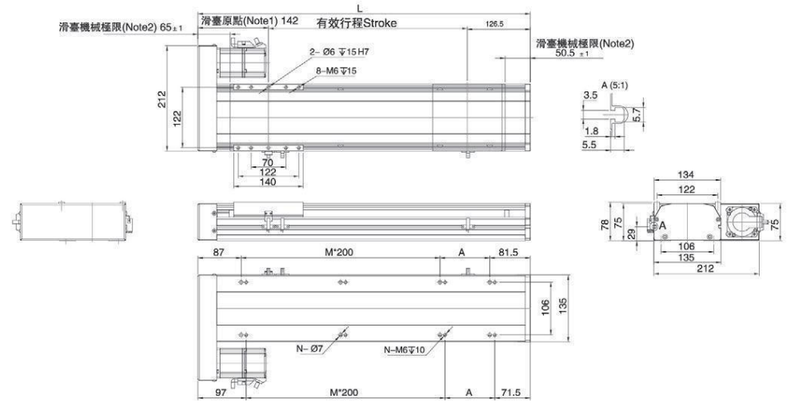
單位(mm)



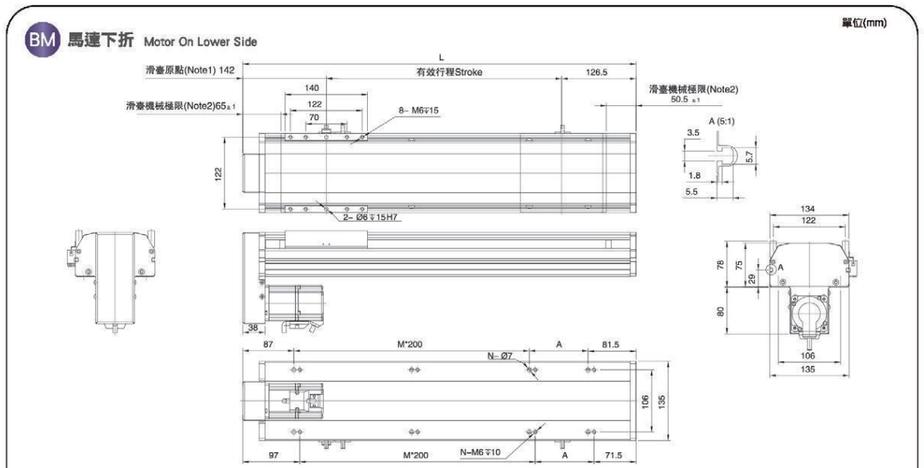

| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 368.5 | 418.5 | 468.5 | 518.5 | 568.5 | 618.5 | 668.5 | 718.5 | 768.5 | 818.5 | 868.5 | 918.5 | 968.5 | 1018.5 | 1068.5 | 1118.5 | 1168.5 | 1218.5 | 1268.5 | 1318.5 | 1368.5 | 1418.5 | 1468.5 | 1518.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| KG | 6.8 | 7.3 | 7.8 | 8.3 | 8.8 | 9.3 | 9.8 | 10.3 | 10.8 | 11.3 | 11.8 | 12.3 | 12.8 | 13.3 | 13.8 | 14.3 | 14.8 | 15.3 | 15.8 | 16.3 | 16.8 | 17.3 | 17.8 | 18.3 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 368.5 | 418.5 | 468.5 | 518.5 | 568.5 | 618.5 | 668.5 | 718.5 | 768.5 | 818.5 | 868.5 | 918.5 | 968.5 | 1018.5 | 1068.5 | 1118.5 | 1168.5 | 1218.5 | 1268.5 | 1318.5 | 1368.5 | 1418.5 | 1468.5 | 1518.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| KG | 6.8 | 7.3 | 7.8 | 8.3 | 8.8 | 9.3 | 9.8 | 10.3 | 10.8 | 11.3 | 11.8 | 12.3 | 12.8 | 13.3 | 13.8 | 14.3 | 14.8 | 15.3 | 15.8 | 16.3 | 16.8 | 17.3 | 17.8 | 18.3 |




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 368.5 | 418.5 | 468.5 | 518.5 | 568.5 | 618.5 | 668.5 | 718.5 | 768.5 | 818.5 | 868.5 | 918.5 | 968.5 | 1018.5 | 1068.5 | 1118.5 | 1168.5 | 1218.5 | 1268.5 | 1318.5 | 1368.5 | 1418.5 | 1468.5 | 1518.5 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 |
| KG | 6.8 | 7.3 | 7.8 | 8.3 | 8.8 | 9.3 | 9.8 | 10.3 | 10.8 | 11.3 | 11.8 | 12.3 | 12.8 | 13.3 | 13.8 | 14.3 | 14.8 | 15.3 | 15.8 | 16.3 | 16.8 | 17.3 | 17.8 | 18.3 |

SYTH14 系列丝杆直线模组SYTH14 Series Ball Screw Linear Module

## MEMO



最大行程 Maximum Stroke 1550mm | 最高速度 Maximum Speed 1250mm/s | 馬達容量 Motor Output 750W | 滾珠螺桿 Ball Screw 20or25mm | 直線滑軌 Linear Guide 20x15.5-2支

## 型號表示方式 Ordering Method

SYTH17 - L 5 - 100 - M - P75 B-C 4 - 0001

- 本體型號 Model
- 皮帶型式 Belt Type
  - L:標準臺製
  - T-Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 導程 Lead
  - 5：5mm
  - 10：10mm
  - 20：20mm
  - 25：25mm
- 行程 Stroke
  - 100~1550
- 馬達連結型式 Motor Position
  - M:馬達直結 Motor built-in
  - BC:馬達外露 Motor Exposed
  - BM:馬達下折 Motor On Lower Side
  - BR:馬達右折 Motor On Right Side
  - BL:馬達左折 Motor On Left Side
- 煞車 Brake
  - B:With Brake
  - 若無煞車則不表示
- 馬達廠牌 馬達功率 Motor Brand Power Output
  - P 國際 Panasonic
    - 40：400W
    - 75：750W
  - T 臺達 Delta
  - M 三菱 Mitsubishi
- 原點光電固定位置 Home Sensor
  - 內置型 In Side
    - A：馬達側 Motor Side
    - B：反馬達側 OppoSite Motor Side
  - 外掛型 Out Side
    - C：馬達側 Motor Side
    - D：反馬達側 OppoSite Motor Side
    - E：無 SENSOR
- 極限光電數量 Limit Sensor
  - 內置型 In Side
    - 1：1衹 1Pc
    - 2：2衹 2Pc
  - 外掛型 Out Side
    - 3：1衹 1Pc
    - 4：2衹 2Pc
    - 5：無 SENSOR
- 特注式樣 Special Order No.

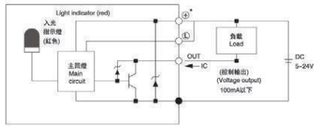
SYTH17 系列丝杆直线模组SYTH17 Series Ball Screw Linear Module

## 基本仕樣 Specification

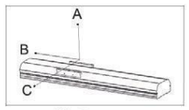
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 20 | 25 |
| | 最高速度 Maximum Speed | | 250 | 500 | 1000 | 1250 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | 140 | 120 | 83 | 60 |
| | | 垂直使用 Vertical | 55 | 45 | 30 | 25 |
| | 定格推力 Rated Thrust | | 2563 | 1281 | 640 | 522 |
| | 標準行程 Stroke Pitch | | 100-1550mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output | | 750 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7ϕ20 | | | C7ϕ25 |
| | 高剛性直線 滑軌 High Rigidity Linear Guide | | 20×15.5 | | | |
| | 聯軸器 Coupling | | 12×19 | | | 15×19 |
| | 原點感應器 Home Sensor | 外掛 Out side | EE-SX672(NPN) | | | |
| | | 內置 In side | EE-SX674(NPN) | | | |

*行程超過900時,會產生螺桿偏擺,此時請將速度調降

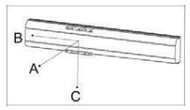
## 感應器接線圖 <原點及端點>Sensor Layout



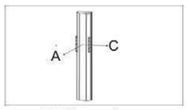

## 容許負戴力距表N.m Allowable Overhang



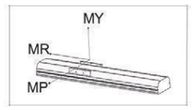

( 單位:mm)




(單位:mm)




(單位:mm)




(單位:N.m)
水平使用時
Static Loading Moment

| | |
|---|---|
| MY | 1032 |
| MP | 1034 |
| MR | 908 |

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 60kg | 2448 | 349 | 408 |
| | 100kg | 1995 | 247 | 306 |
| | 140kg | 1446 | 192 | 198 |
| Lead 10 | 60kg | 1791 | 338 | 373 |
| | 90kg | 1245 | 253 | 336 |
| | 120kg | 800 | 164 | 182 |
| Lead 20 | 30kg | 1466 | 447 | 438 |
| | 50kg | 930 | 331 | 378 |
| | 83kg | 554 | 206 | 204 |
| Lead 25 | 10kg | 1345 | 740 | 587 |
| | 30kg | 745 | 491 | 385 |
| | 60kg | 385 | 231 | 180 |

| 牆面安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 60kg | 430 | 350 | 2438 |
| | 100kg | 277 | 165 | 1995 |
| | 140kg | 215 | 118 | 1436 |
| Lead 10 | 60kg | 418 | 372 | 1741 |
| | 90kg | 293 | 179 | 1240 |
| | 120kg | 230 | 133 | 851 |
| Lead 20 | 30kg | 633 | 644 | 1473 |
| | 50kg | 365 | 369 | 980 |
| | 83kg | 206 | 232 | 556 |
| Lead 25 | 10kg | 757 | 871 | 1350 |
| | 30kg | 345 | 451 | 780 |
| | 60kg | 175 | 251 | 418 |

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| Lead 5 | 20kg | 1368 | 1367 |
| | 30kg | 911 | 911 |
| | 55kg | 532 | 532 |
| Lead 10 | 15kg | 1178 | 1178 |
| | 25kg | 850 | 850 |
| | 45kg | 575 | 575 |
| Lead 20 | 5kg | 1050 | 1050 |
| | 15kg | 712 | 712 |
| | 30kg | 515 | 515 |
| Lead 25 | 12kg | 650 | 650 |
| | 25kg | 495 | 495 |

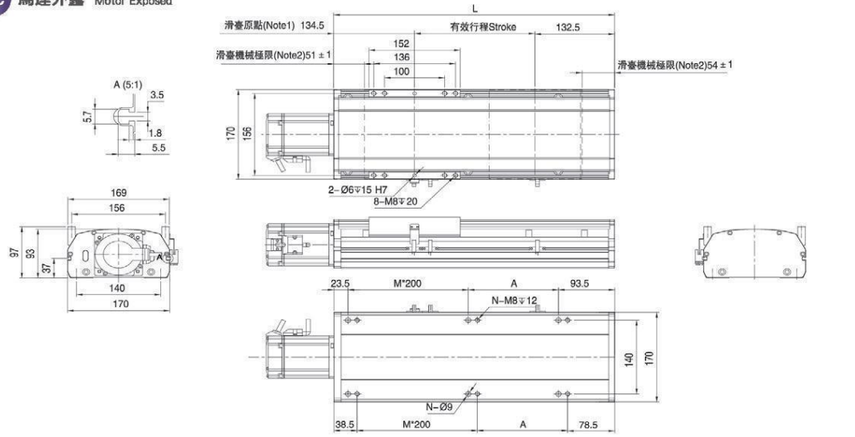
※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC-Voltage AC-V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 750 | 220 | HG-KP73 | MR-J4-70A |
| | | With Brake (Vertical Type) | 750 | 220 | HG-KP73B | MR-J4-70A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 750 | 220 | MHMD082G1U | MCDHT3520 |
| | | With Brake (Vertical Type) | 750 | 220 | MHMD082G1V | MCDHT3520 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 750 | 220 | ECMA-C20807ES | ASD-B20721-B |
| | | With Brake (Vertical Type) | 750 | 220 | ECMA-C20807FS | ASD-B20721-B |

## BC 馬達外露 Motor Exposed

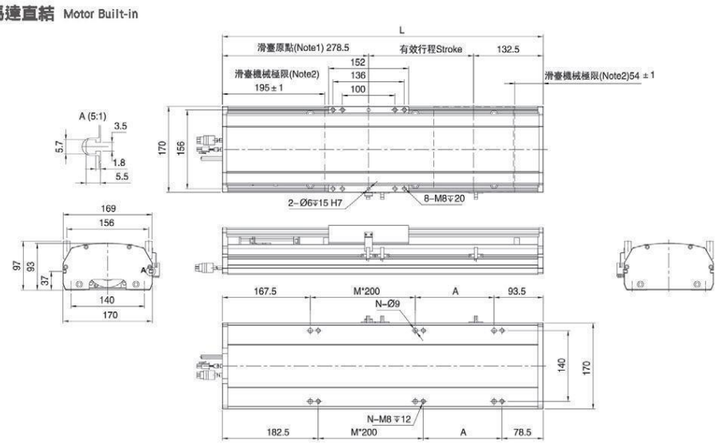
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 367 | 417 | 467 | 517 | 567 | 617 | 667 | 717 | 767 | 817 | 867 | 917 | 967 | 1017 | 1067 | 1117 | 1167 | 1217 | 1267 | 1317 | 1367 | 1417 | 1467 | 1517 | 1567 | 1617 | 1667 | 1717 | 1767 | 1817 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 11.8 | 12.6 | 13.4 | 14.2 | 14.9 | 15.7 | 16.5 | 17.3 | 18 | 18.8 | 19.6 | 20.4 | 21.1 | 21.9 | 22.7 | 23.5 | 24.2 | 25 | 25.8 | 26.6 | 27.4 | 28.2 | 29 | 29.8 | 30.6 | 31.4 | 32.2 | 33 | 33.8 | 34.6 |

## M 馬達直結 Motor Built-in

單位(mm)

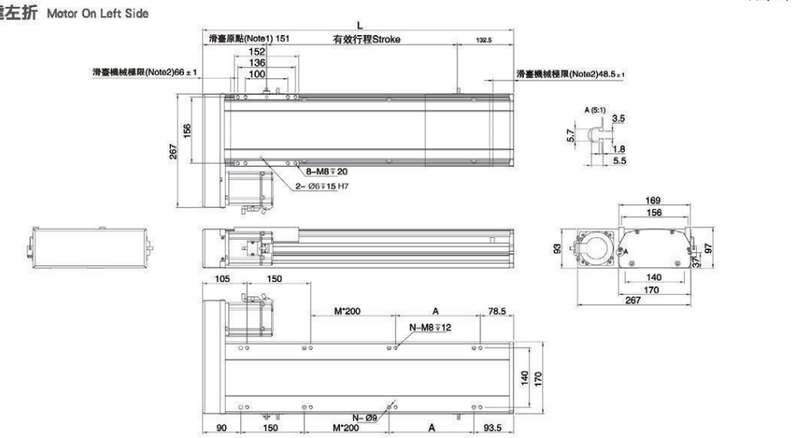



| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 511 | 561 | 611 | 661 | 711 | 761 | 811 | 861 | 911 | 961 | 1011 | 1061 | 1111 | 1161 | 1211 | 1261 | 1311 | 1361 | 1411 | 1461 | 1511 | 1561 | 1611 | 1661 | 1711 | 1761 | 1811 | 1861 | 1911 | 1961 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 11.8 | 12.6 | 13.4 | 14.2 | 14.9 | 15.7 | 16.5 | 17.3 | 18 | 18.8 | 19.6 | 20.4 | 21.1 | 21.9 | 22.7 | 23.5 | 24.2 | 25 | 25.8 | 26.6 | 27.4 | 28.2 | 29 | 29.8 | 30.6 | 31.4 | 32.2 | 33 | 33.8 | 34.6 |

SYTH17 系列丝杆直线模组SYTH17 Series Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

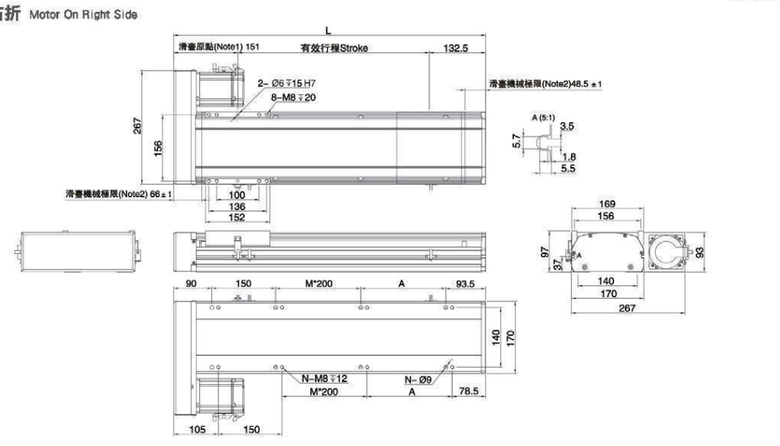
單位(mm)



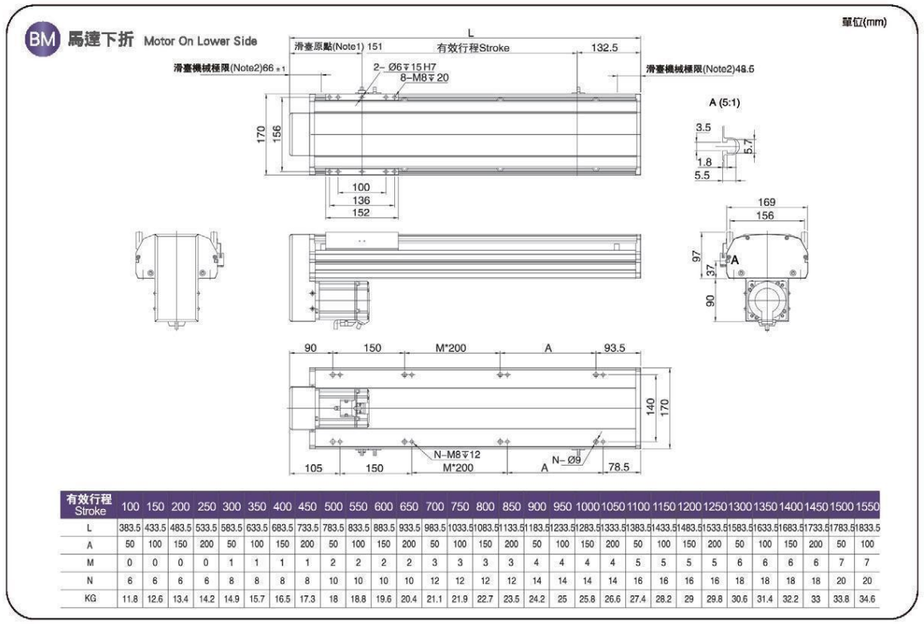

| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 383.5 | 433.5 | 483.5 | 533.5 | 583.5 | 633.5 | 683.5 | 733.5 | 783.5 | 833.5 | 883.5 | 933.5 | 983.5 | 1033.5 | 1083.5 | 1133.5 | 1183.5 | 1233.5 | 1283.5 | 1333.5 | 1383.5 | 1433.5 | 1483.5 | 1533.5 | 1583.5 | 1633.5 | 1683.5 | 1733.5 | 1783.5 | 1833.5 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 11.8 | 12.6 | 13.4 | 14.2 | 14.9 | 15.7 | 16.5 | 17.3 | 18 | 18.8 | 19.6 | 20.4 | 21.1 | 21.9 | 22.7 | 23.5 | 24.2 | 25 | 25.8 | 26.6 | 27.4 | 28.2 | 29 | 29.8 | 30.6 | 31.4 | 32.2 | 33 | 33.8 | 34.6 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 383.5 | 433.5 | 483.5 | 533.5 | 583.5 | 633.5 | 683.5 | 733.5 | 783.5 | 833.5 | 883.5 | 933.5 | 983.5 | 1033.5 | 1083.5 | 1133.5 | 1183.5 | 1233.5 | 1283.5 | 1333.5 | 1383.5 | 1433.5 | 1483.5 | 1533.5 | 1583.5 | 1633.5 | 1683.5 | 1733.5 | 1783.5 | 1833.5 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 11.8 | 12.6 | 13.4 | 14.2 | 14.9 | 15.7 | 16.5 | 17.3 | 18 | 18.8 | 19.6 | 20.4 | 21.1 | 21.9 | 22.7 | 23.5 | 24.2 | 25 | 25.8 | 26.6 | 27.4 | 28.2 | 29 | 29.8 | 30.6 | 31.4 | 32.2 | 33 | 33.8 | 34.6 |




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 383.5 | 433.5 | 483.5 | 533.5 | 583.5 | 633.5 | 683.5 | 733.5 | 783.5 | 833.5 | 883.5 | 933.5 | 983.5 | 1033.5 | 1083.5 | 1133.5 | 1183.5 | 1233.5 | 1283.5 | 1333.5 | 1383.5 | 1433.5 | 1483.5 | 1533.5 | 1583.5 | 1633.5 | 1683.5 | 1733.5 | 1783.5 | 1833.5 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 11.8 | 12.6 | 13.4 | 14.2 | 14.9 | 15.7 | 16.5 | 17.3 | 18 | 18.8 | 19.6 | 20.4 | 21.1 | 21.9 | 22.7 | 23.5 | 24.2 | 25 | 25.8 | 26.6 | 27.4 | 28.2 | 29 | 29.8 | 30.6 | 31.4 | 32.2 | 33 | 33.8 | 34.6 |

SYTH17 系列丝杆直线模组SYTH17 Series Ball Screw Linear Module

## MEMO



此圖僅供參考，出貨規格詳見尺寸圖面
The picture is just for the reference. Please check the the actual dimensions on the drawing.

最大行程 Maximum Stroke 1500mm | 最高速度 Maximum Speed 2000mm/s | 馬達容量 Motor Output 1000W | 滾珠螺桿 Ball Screw 25or32mm | 直線滑軌 Linear Guide 23X18-2支

## 型號表示方式 Ordering Method

SYTH22 - L 10 - 50 - M - M75B - C 4 - 0001

本體型號 Model

■行程 Stroke
- 50-1500mm
- 50間隔 50 mm Pitch

■螺桿導程 Ball Screw Lead

| | |
|---|---|
| 05 | 05mm |
| 10 | 10mm |
| 25 | 25mm |
| 32 | 32mm |

■馬達位置 Motor Position

| | |
|---|---|
| M | 馬達直結 Motor Hidden In |
| BC | 馬達外露 Motor Exposed |
| BL | 馬達左折 Motor Left Side |
| BR | 馬達右折 Motor Right Side |
| BM | 馬達下折 Motor Bottom Side |

■馬達廠牌 Motor Brand

| | | | | |
|---|---|---|---|---|
| M | 三菱 Mitsubishi | 10 | - | B |
| P | 國際 Panasonic | 20 | - | |
| Y | 安川 Yaskawa | 40 | - | |
| T | 台達 Delta | 75 | 750W | |

※若無煞車則不表示。※If No Brake,No Description.

■原點感應器 Home Sensor

| | |
|---|---|
| 內置型 In Side | |
| A | 馬達側 Motor Side |
| B | 反馬達側 OppoSite Motor Side |
| 外掛型 Out Side | |
| C | 馬達側 Motor Side |
| D | 反馬達側 OppoSite Motor Side |
| 無 SENSOR No Sensor | |
| E | 無 SENSOR No Sensor |

■端點極限感應器 Limit Sensor

| | |
|---|---|
| 內置型 In Side | |
| 1 | 1只 1 Pc |
| 2 | 2只 2 Pc |
| 外掛型 Out Side | |
| 3 | 1只 1 Pc |
| 4 | 2只 2 Pc |
| 無 SENSOR No Sensor | |
| 5 | 無 SENSOR No Sensor |

SYTH22 系列丝杆直线模组SYTH22 Series Ball Screw Linear Module

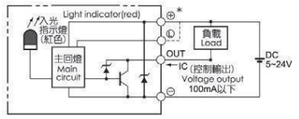
## 基本仕樣 Specification

| | | | | | |
|---|---|---|---|---|---|
| 規格 Spec | 位置重複精度 Repeatability (mm) | | ±0.01 | | |
| | 螺桿導程 Ball Screw Lead (mm) | | 5 | 10 | 25 | 32 |
| | 最高速度 Maximum Speed (mm/s) | | 250 | 500 | 1250 | 1600 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal (kg) | 200 | 180 | 98 | 70 |
| | | 垂直使用 Vertical (kg) | 85 | 60 | 45 | 35 |
| | 定格推力 Rated Thrust (N) | | 2563 | 1281 | 640 | 560 |
| | 標準行程 Stroke Pitch (mm) | | 50-1500mm/50間隔 50 mm Pitch | | | |
| 部品 Parts | AC伺服馬達容量 AC Servo Motor Output (W) | | 1000 | | | |
| | 滾珠螺桿外徑 Ball Screw Ø (mm) | | C7 ϕ 25 | | | C7 ϕ 32 |
| | 高剛性直線滑軌 High Rigidity Linear Guide (mm) | | W23XH18 | | | |
| | 連軸器 Coupling (mm) | | 17X22 | | | 20X22 |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |
| | | 內置 Built-in | EE-SX674(NPN) | | | |

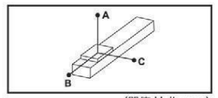
※行程超過900時，會產生螺桿偏擺，此時請將速度調降。
When the stroke is over 900mm, the run-out of the ballscrew will occur. We recommend to low down the working speed under this circumstances.

※馬達加減速設定0.2秒。
Acceleration and deacceleration value is set 0.2 second.

## 感應器接線圖<原點及端點> Sensor Layout

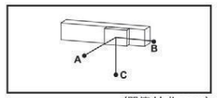



## 容許負載力距表 Allowable Overhang



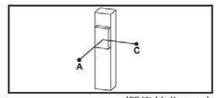

(單位 Unit : mm)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| 導程 5 Lead | 100 | 5000 | 633 | 557 |
| | 125 | 3880 | 491 | 431 |
| | 150 | 3357 | 396 | 347 |
| 導程 10 Lead | 100 | 3220 | 563 | 474 |
| | 125 | 2554 | 434 | 367 |
| | 150 | 2113 | 349 | 295 |
| 導程 25 Lead | 65 | 1522 | 614 | 458 |
| | 85 | 1136 | 451 | 336 |
| | 105 | 893 | 350 | 262 |
| 導程 40 Lead | 18 | 2445 | 1616 | 1052 |
| | 30 | 1436 | 938 | 613 |
| | 43 | 978 | 630 | 412 |




(單位 Unit : mm)

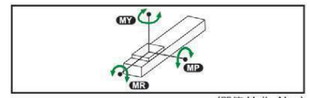
| 壁掛安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| 導程 5 Lead | 110 | 500 | 569 | 4500 |
| | 130 | 412 | 469 | 3711 |
| | 150 | 347 | 396 | 3357 |
| 導程 10 Lead | 110 | 427 | 503 | 2900 |
| | 130 | 351 | 414 | 2444 |
| | 150 | 295 | 349 | 2113 |
| 導程 25 Lead | 70 | 420 | 564 | 1404 |
| | 90 | 315 | 420 | 1066 |
| | 105 | 262 | 350 | 893 |
| 導程 40 Lead | 15 | 1272 | 1955 | 2948 |
| | 24 | 778 | 1190 | 1813 |
| | 43 | 412 | 630 | 978 |




(單位 Unit : mm)

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| 導程 5 Lead | 30 | 2355 | 2355 |
| | 40 | 1768 | 1768 |
| | 55 | 1288 | 1288 |
| 導程 10 Lead | 25 | 2505 | 2505 |
| | 35 | 1795 | 1795 |
| | 45 | 1396 | 1396 |
| 導程 25 Lead | 15 | 2711 | 2711 |
| | 20 | 2033 | 2033 |
| | - | - | - |
| 導程 40 Lead | 7 | 3511 | 3511 |
| | 12 | 2055 | 2055 |
| | - | - | - |

## 靜態容許負載慣量 Static Loading Moment




(單位 Unit : N.m)

| | |
|---|---|
| MY | 2052 |
| MP | 2052 |
| MR | 1810 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.

※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

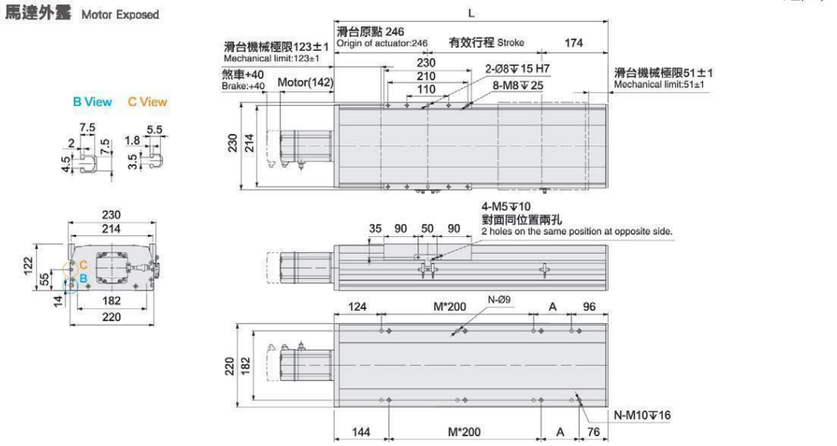
※倒吊使用無法套用標準規範，如有需求請洽詢我司業務。
Data information is not for ceiling-mount inverse use. Contact us for the details if you want to apply ceiling-mount inverse usage.

## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 Watt | 電源電壓 AC-Voltage | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | 無煞車(水平仕樣) No Brake (Horizontal Type) | 750 | 220 | HG-KR73 | MR-J4-70A |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 750 | 220 | HG-KR73B | MR-J4-70A |
| 國際 Panasonic | P | 無煞車(水平仕樣) No Brake (Horizontal Type) | 750 | 220 | MHMD082G1U | MCDHT3520 |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 750 | 220 | MHMD082G1V | MCDHT3520 |
| 台達 Delta | T | 無煞車(水平仕樣) No Brake (Horizontal Type) | 750 | 220 | ECMA-C20807ES | ASD-B20721-B |
| | | 有煞車(垂直仕樣) With Brake (Vertical Type) | 750 | 220 | ECMA-C20807FS | ASD-B20721-B |

## BC 馬達外露 Motor Exposed

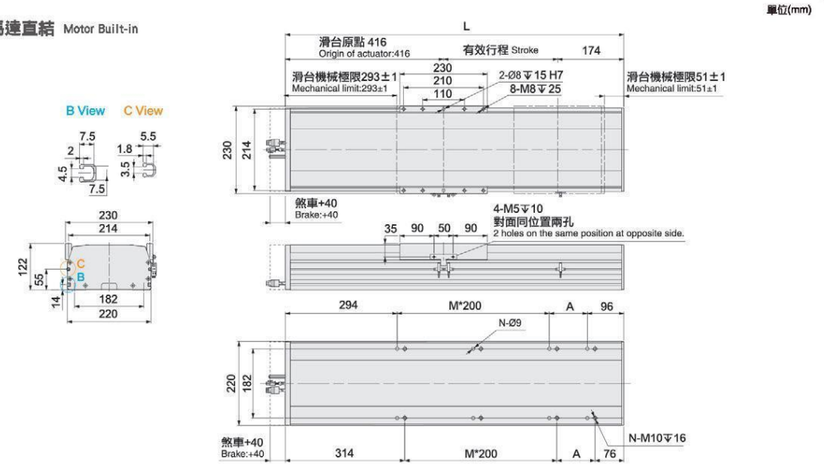
單位(mm)




| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 470 | 520 | 570 | 620 | 670 | 720 | 770 | 820 | 870 | 920 | 970 | 1020 | 1070 | 1120 | 1170 | 1220 | 1270 | 1320 | 1370 | 1420 | 1470 | 1520 | 1570 | 1620 | 1670 | 1720 | 1770 | 1820 | 1870 | 1920 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 25.4 | 26.86 | 28.32 | 29.78 | 31.24 | 32.7 | 34.16 | 35.62 | 37.08 | 38.54 | 40 | 41.46 | 42.92 | 44.38 | 45.84 | 47.3 | 48.76 | 50.22 | 51.68 | 53.14 | 54.6 | 56.06 | 57.52 | 58.98 | 60.44 | 61.9 | 63.36 | 64.82 | 66.28 | 67.74 |

## M 馬達直結 Motor Built-in

單位(mm)

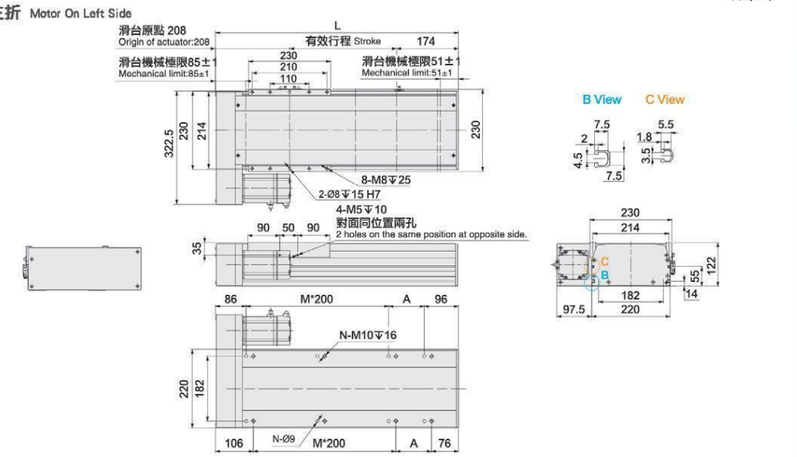



| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 640 | 690 | 740 | 790 | 840 | 890 | 940 | 990 | 1040 | 1090 | 1140 | 1190 | 1240 | 1290 | 1340 | 1390 | 1440 | 1490 | 1540 | 1590 | 1640 | 1690 | 1740 | 1790 | 1840 | 1890 | 1940 | 1990 | 2040 | 2090 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 27.85 | 29.32 | 30.79 | 32.26 | 33.73 | 35.2 | 36.67 | 38.14 | 39.61 | 41.08 | 42.55 | 44.02 | 45.49 | 46.96 | 48.43 | 49.9 | 51.37 | 52.84 | 54.31 | 55.78 | 57.25 | 58.72 | 60.19 | 61.66 | 63.13 | 64.6 | 66.07 | 67.54 | 69.01 | 70.48 |

SYTH22 系列丝杆直线模组SYTH22 Series Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

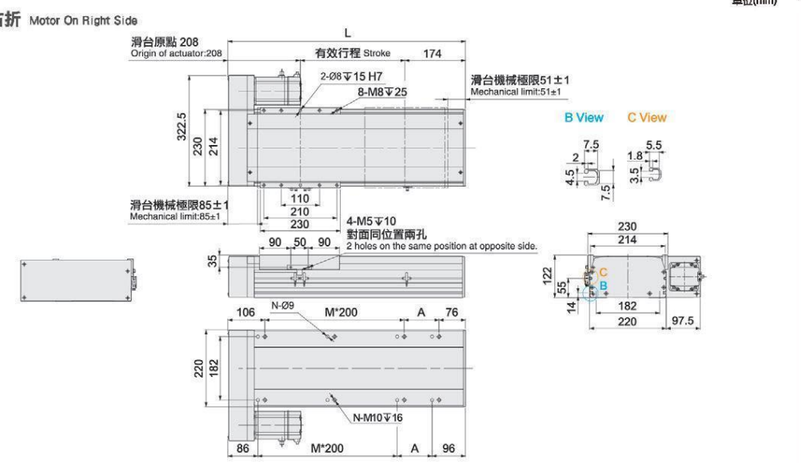
單位(mm)



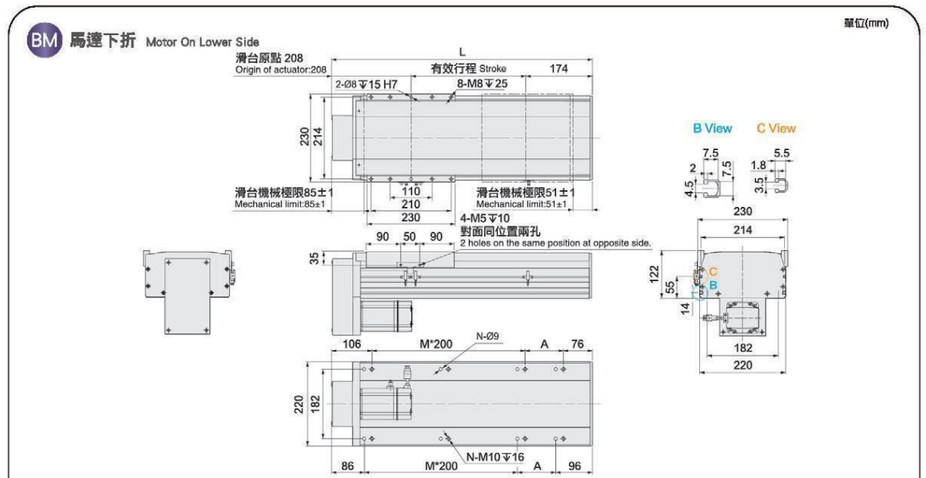

| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 | 1182 | 1232 | 1282 | 1332 | 1382 | 1432 | 1482 | 1532 | 1582 | 1632 | 1682 | 1732 | 1782 | 1832 | 1882 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 24.2 | 25.66 | 27.12 | 28.58 | 30.04 | 31.5 | 32.96 | 34.42 | 35.88 | 37.34 | 38.8 | 40.26 | 41.72 | 43.18 | 44.64 | 46.1 | 47.56 | 49.02 | 50.48 | 51.94 | 53.4 | 54.86 | 56.32 | 57.78 | 59.24 | 60.7 | 62.16 | 63.62 | 65.08 | 66.54 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 | 1182 | 1232 | 1282 | 1332 | 1382 | 1432 | 1482 | 1532 | 1582 | 1632 | 1682 | 1732 | 1782 | 1832 | 1882 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 24.2 | 25.66 | 27.12 | 28.58 | 30.04 | 31.5 | 32.96 | 34.42 | 35.88 | 37.34 | 38.8 | 40.26 | 41.72 | 43.18 | 44.64 | 46.1 | 47.56 | 49.02 | 50.48 | 51.94 | 53.4 | 54.86 | 56.32 | 57.78 | 59.24 | 60.7 | 62.16 | 63.62 | 65.08 | 66.54 |




| 有效行程 stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 | 1182 | 1232 | 1282 | 1332 | 1382 | 1432 | 1482 | 1532 | 1582 | 1632 | 1682 | 1732 | 1782 | 1832 | 1882 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 24.2 | 25.66 | 27.12 | 28.58 | 30.04 | 31.5 | 32.96 | 34.42 | 35.88 | 37.34 | 38.8 | 40.26 | 41.72 | 43.18 | 44.64 | 46.1 | 47.56 | 49.02 | 50.48 | 51.94 | 53.4 | 54.86 | 56.32 | 57.78 | 59.24 | 60.7 | 62.16 | 63.62 | 65.08 | 66.54 |

SYTH22 系列丝杆直线模组SYTH22 Series Ball Screw Linear Module

## MEMO



滑台模组

MEMO





滑台系列

# SYCH series

無塵環境/螺桿式樣

Clean Room/Ball Screw

CONTENTS

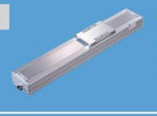

無塵環境 / 螺桿式樣 Clean Room/Ball Screw

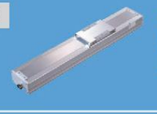
小型 TYPE
SYCH5
低慣性 輕荷重

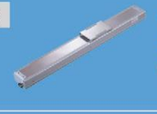
本體寬幅 50mm
最大行程 800mm …… 150
最大荷重 10kg

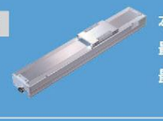
小型 TYPE
SYCH6
輕荷重

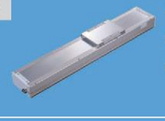
本體寬幅 65mm
最大行程 800mm …… 154
最大荷重 30kg

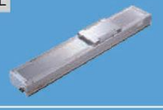
小型 TYPE
SYCH8
低慣性 輕荷重

本體寬幅 86mm
最大行程 1050mm …… 158
最大荷重 38kg

中型 TYPE
SYCH10

本體寬幅 102mm
最大行程 1050mm …… 162
最大荷重 48kg

標準型 TYPE
SYCH12

本體寬幅 104mm
最大行程 1050mm …… 166
最大荷重 60kg

標準型 TYPE
SYCH14

本體寬幅 135mm
最大行程 1250mm …… 172
最大荷重 110kg

大型 TYPE
SYCH17
高荷重

本體寬幅 170mm
最大行程 1550mm …… 178
最大荷重 140kg

重型 LARGE
SYCH22
高荷重

本體寬幅 220mm Width
最大行程 1800mm Max. stroke 184
最大荷重 200kg Max. payload

# SYCH5 系列 无尘环境丝杆模组



最大行程 Maximum Stroke 800mm | 最高速度 Maximum Speed 500mm/s | 馬達容量 Motor Output 100W | 滾珠螺桿 Ball Screw φ12mm | 直線滑軌 Linear Guide 24x8.5-1支

## 型號表示方式 Ordering Method

SYCH5 - L 5 -100 - BC - M10B - C 4 - 0001

- 本體型號 Model
- 導程 Lead：5: 5mm；10:10mm
- 行程 Stroke：100~800
- 煞車 Brake：B:With Brake；若無煞車則不表示
- 特注式樣 Special Order No.
- 螺桿品牌 Ball Screw Brand：L:標準臺製；T–Standard MIT；S:STAR；H:HIWIN；K:KURORA；R:THK；N:NSK
- 馬達連接型式 Motor Position：BC 馬達外露 Motor Exposed；BM 馬達下折 Motor On Lower Side；BR 馬達右方 Motor On Right Side；BL 馬達左方 Motor On Left Side
- 馬達廠牌 馬達功率 Motor Brand Power Output：P:國際 Panasonic；T:臺達 Delta；M:三菱 Mitsubishi；10：100W
- 原點光電固定位置 Home Sensor：外掛型 Out Side；C：馬達側 Motor Side；D：反馬達側 OppoSite Motor Side；E：無 SENSOR
- 極限光電數量 Limit Sensor：外掛型 Out Side；3: 1衹 1 Pc；4: 2衹 2 Pc；5:無 SENSOR

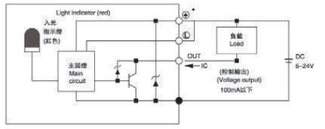
# SYCH5 Series Dust-Free Environment Ball Screw Linear Module

## 基本仕樣 Specification

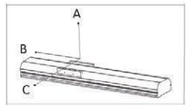
| | | | | |
|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | |
| | 導程 Lead | | 5 | 10 |
| | 最高速度 Maximum Speed | | 250 | 500 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | 10 | 5 |
| | | 垂直使用 Vertical | 4 | 2 |
| | 定格推力 Rated Thrust | | 335 | 167 |
| | 標準行程 Stroke Pitch | | 100-800mm/50pitch | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output | | 100 | |
| | 滾珠螺桿外徑 Ball Screw | | C7 ϕ12 | |
| | 高剛性直線滑軌 High Rigidity Linear Guide | | 24X8.5 | |
| | 聯軸器 Coupling | | 8x8 | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | |

*行程超过700时,会产生螺桿偏擺,此时请将速度调降

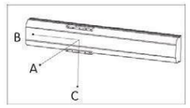
## 感應器接線圖 <原點及端點>Sensor Layout



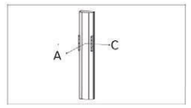

## 容許負戴力距表N.m Allowable Overhang



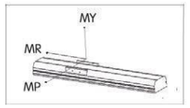
( 單位:mm)



(單位:mm)



(單位:mm)



(單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C | 牆面安裝 Wall Installation | | A | B | C | 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead 5 | 5kg | 284 | 24 | 55 | Lead 5 | 5kg | 51 | 30 | 300 | Lead 5 | 4kg | 56 | 57 |
| | 10 kg | 120 | 10 | 22 | | 10 kg | 20 | 15 | 195 | | | | |
| Lead 10 | 3kg | 245 | 40 | 80 | Lead 10 | 3kg | 74 | 37 | 231 | Lead 10 | 2kg | 83 | 83 |
| | 5kg | 140 | 33 | 55 | | 5kg | 40 | 25 | 148 | | | | |

水平使用時 Static Loading Moment

| | |
|---|---|
| MY | 50 |
| MP | 60 |
| MR | 75 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

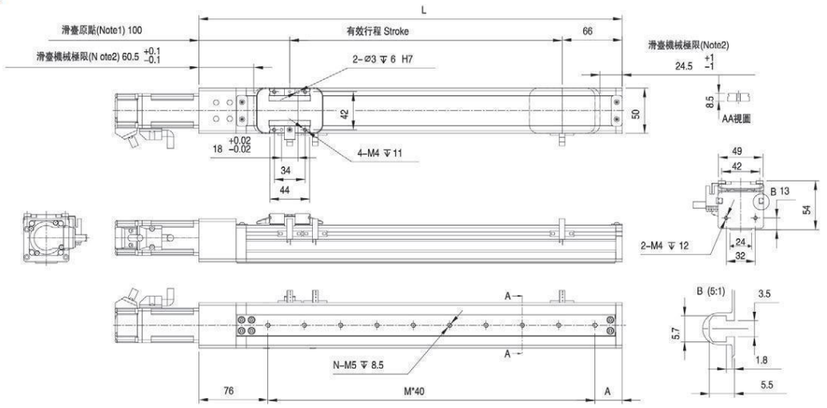
## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC–Voltage AC–V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 100 | 220 | HG-KP13 | MR-J4-10A |
| | | With Brake (Vertical Type) | 100 | 220 | HG-KP13B | MR-J4-10A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 100 | 220 | MSMD012G1U | MADHT1505 |
| | | With Brake (Vertical Type) | 100 | 220 | MSMD012G1V | MADHT1505 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 100 | 220 | ECMA-C20401ES | ASD-B20121-B |
| | | With Brake (Vertical Type) | 100 | 220 | ECMA-C20401FS | ASD-B20121-B |

# SYCH5 系列 无尘环境丝杆模组

## BC 馬達外露 Motor Exposed

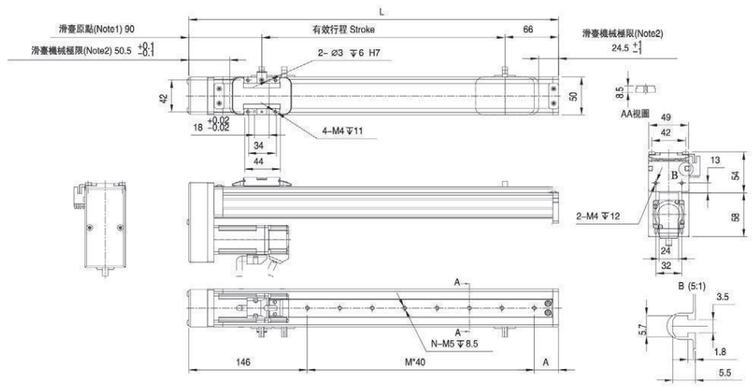
單位(mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 216 | 266 | 316 | 366 | 416 | 466 | 516 | 566 | 616 | 666 | 716 | 766 | 816 | 866 | 916 | 966 |
| A | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 |
| M | 2 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 19 | 20 | 21 |
| N | 3 | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 20 | 21 | 22 |
| KG | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.7 | 2.8 | 2.8 | 3 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 |

## BM 馬達下折 Motor On Lower Side

單位(mm)

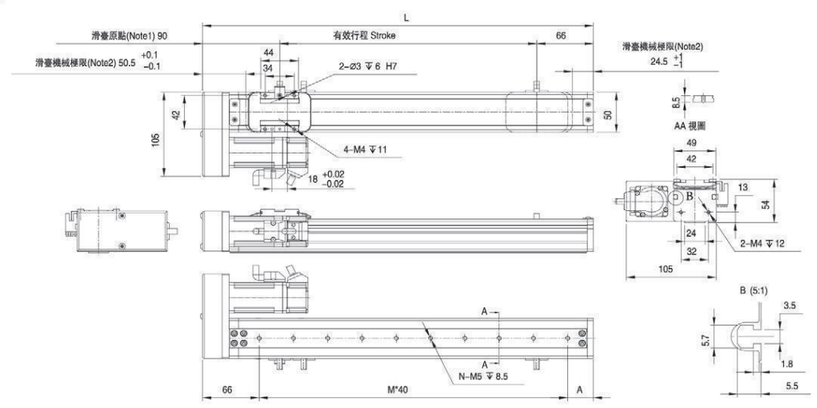



| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 206 | 256 | 306 | 356 | 406 | 456 | 506 | 556 | 606 | 656 | 706 | 756 | 806 | 856 | 906 | 956 |
| A | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 |
| M | 0 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 10 | 12 | 13 | 14 | 15 | 17 | 18 | 19 |
| N | 1 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 13 | 14 | 15 | 16 | 18 | 19 | 20 |
| KG | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.7 | 2.8 | 2.8 | 3 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 |

# SYCH5 Series Dust-Free Environment Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

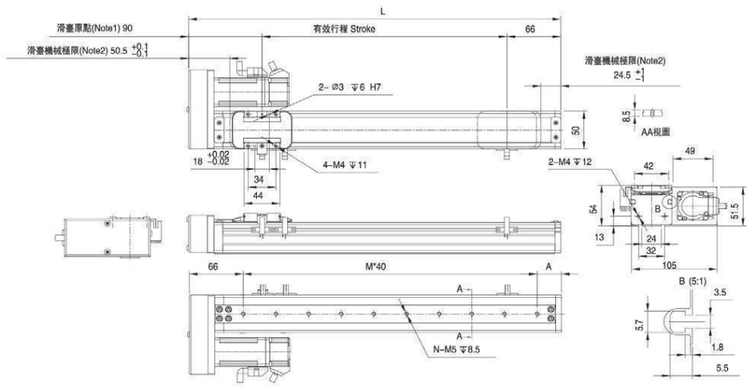
單位(mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 206 | 256 | 306 | 356 | 406 | 456 | 506 | 556 | 606 | 656 | 706 | 756 | 806 | 856 | 906 | 956 |
| A | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 |
| M | 2 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 19 | 20 | 21 |
| N | 3 | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 20 | 21 | 22 |
| KG | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.7 | 2.8 | 2.8 | 3 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 Stroke | 50 | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 206 | 256 | 306 | 356 | 406 | 456 | 506 | 556 | 606 | 656 | 706 | 756 | 806 | 856 | 906 | 956 |
| A | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 | 60 | 30 | 40 | 50 |
| M | 2 | 4 | 5 | 6 | 7 | 9 | 10 | 11 | 12 | 14 | 15 | 16 | 17 | 19 | 20 | 21 |
| N | 3 | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 20 | 21 | 22 |
| KG | 2.1 | 2.2 | 2.3 | 2.4 | 2.5 | 2.7 | 2.8 | 2.8 | 3 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 | 3.7 |

# SYCH6 系列 无尘环境丝杆模组



最大行程 Maximum Stroke 800mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 100W | 滾珠螺桿 Ball Screw φ16mm | 直線滑軌 Linear Guide 42x9.5-1支

## 型號表示方式 Ordering Method

SYCH6 - L 5 -100 - BC - P10B - C 4 - M5-0001

- 本體型號 Model
- 導程 Lead
  - 5:5mm
  - 10:10mm
  - 16:16mm
  - 20:20mm
- 螺桿品牌 Ball Screw Brand
  - L:標準臺製
  - T–Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 馬達連接型式 Motor Position
  - BC 馬達外露 Motor Exposed
  - BM 馬達下折 Motor On Lower Side
  - BR 馬達右折 Motor On Right Side
  - BL 馬達左折 Motor On Left Side
- 行程 Stroke
  - 100~800
- 馬達廠牌 Motor Brand / 馬達功率 Power Output
  - P:國際 Panasonic
  - T:臺達 Delta
  - Y:安川 Yaskawa
  - M:三菱 Mitsubishi
  - 10：100W
- 煞車 Brake
  - B:With Brake 若無煞車則不表示
- 原點光電固定位置 Home Sensor
  - 外掛型 Out Side
    - C：馬達側 Motor Side
    - D：反馬達側 OppoSite Motor Side
    - E： 無 SENSOR
- 極限光電數量 Limit Sensor
  - 外掛型 Out Side
    - 3: 1衹 1 Pc
    - 4: 2衹 2 Pc
    - 5: 無 SENSOR
- 本體固定孔 Installation Hole
  - 下鎖式：M5 Install On Bottom
  - 上鎖式：不表示 Install On Internal
- 特注式樣 Special Order No.

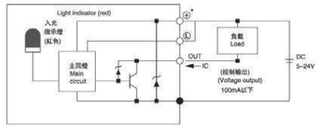
# SYCH6 Series Dust-Free Environment Ball Screw Linear Module

## 基本仕樣 Specification

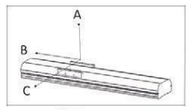
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 16 | 20 |
| | 最高速度 Maximum Speed | | 250 | 500 | 800 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | 30 | 20 | 11 | 8 |
| | | 垂直使用 Vertical | 9 | 6.5 | 5 | 3 |
| | 定格推力 Rated Thrust | | 490 | 252 | 153 | 112 |
| | 標準行程 Stroke Pitch | | 100-800mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output | | 100 | | | |
| | 滾珠螺桿外徑 Ball Screw | | C7 φ16 | | | |
| | 高剛性直線滑軌 High Rigidity Linear Guide | | W42×H9.5.5 | | | |
| | 聯軸器 Coupling | | 8×8 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |
| | | 內置 Built In | | | | |

*行程超过700时,会产生螺桿偏擺,此时请将速度调降

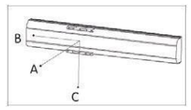
## 感應器接線圖 <原點及端點>Sensor Layout



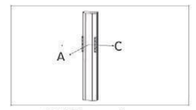

## 容許負戴力距表N.m Allowable Overhang



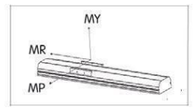

( 單位:mm)




(單位:mm)




(單位:mm)




(單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 11kg | 908 | 126 | 124 |
| | 19kg | 800 | 82 | 90 |
| | 30kg | 324 | 81 | 80 |
| Lead 10 | 7 kg | 786 | 138 | 180 |
| | 11kg | 605 | 135 | 117 |
| | 20kg | 337 | 94 | 90 |
| Lead 16 | 3kg | 670 | 325 | 295 |
| | 6kg | 431 | 258 | 180 |
| | 11kg | 341 | 168 | 121 |
| Lead 20 | 2kg | 720 | 461 | 344 |
| | 5kg | 392 | 160 | 154 |
| | 8kg | 350 | 104 | 104 |

| 牆面安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 11kg | 83 | 80 | 690 |
| | 19kg | 100 | 111 | 412 |
| | 30kg | 74 | 46 | 334 |
| Lead 10 | 7kg | 145 | 98 | 580 |
| | 11kg | 111 | 80 | 310 |
| | 20kg | 53 | 40 | 285 |
| Lead 16 | 3kg | 164 | 132 | 510 |
| | 6kg | 92 | 80 | 370 |
| | 11kg | 57 | 57 | 280 |
| Lead 20 | 2kg | 380 | 330 | 510 |
| | 5kg | 230 | 125 | 280 |
| | 8kg | 80 | 50 | 265 |

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| Lead 5 | 2.5kg | 340 | 320 |
| | 5kg | 211 | 210 |
| | 9kg | 178 | 150 |
| Lead 10 | 1.5kg | 478 | 385 |
| | 4kg | 300 | 266 |
| | 6.5kg | 245 | 188 |
| Lead 16 | 1kg | 410 | 443 |
| | 2kg | 335 | 310 |
| | 4kg | 240 | 190 |
| Lead 20 | 1.5kg | 300 | 300 |
| | 3kg | 210 | 210 |

### 水平使用時 Static Loading Moment

| | |
|---|---|
| MY | 70 |
| MP | 80 |
| MR | 75 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under th specified conditions.

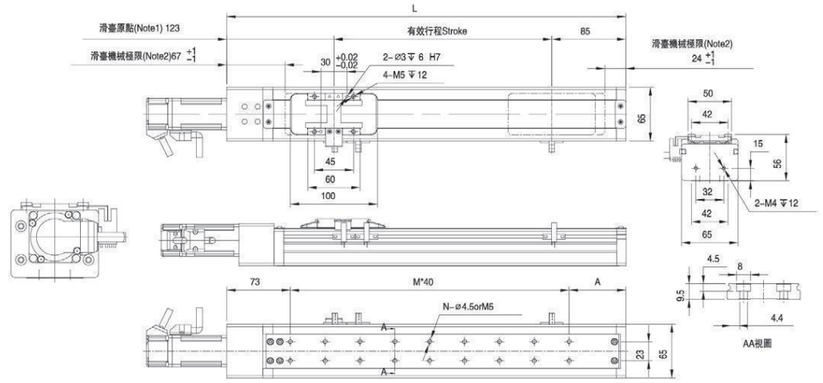
## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC–Voltage AC–V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 100 | 220 | HG-KP13 | MR-J4-10A |
| | | With Brake (Vertical Type) | 100 | 220 | HG-KP13B | MR-J4-10A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 100 | 220 | MSMD012G1U | MADHT1505 |
| | | With Brake (Vertical Type) | 100 | 220 | MSMD012G1V | MADHT1505 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 100 | 220 | ECMA-C20401ES | ASD-B20121-B |
| | | With Brake (Vertical Type) | 100 | 220 | ECMA-C20401FS | ASD-B20121-B |

# SYCH6 系列 无尘环境丝杆模组

## BC 馬達外露 Motor Exposed

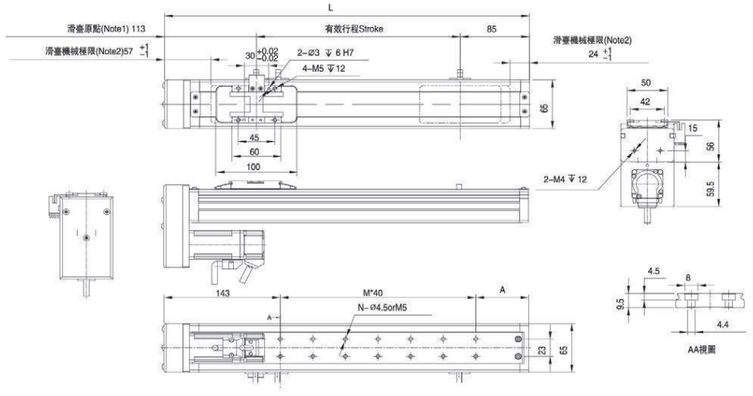
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 308 | 358 | 408 | 458 | 508 | 558 | 608 | 658 | 708 | 758 | 808 | 858 | 908 | 958 | 1008 |
| A | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 45 | 55 |
| M | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 20 | 21 | 22 |
| N | 12 | 14 | 16 | 18 | 22 | 24 | 26 | 28 | 32 | 34 | 36 | 38 | 42 | 44 | 46 |
| KG | 2.7 | 2.8 | 3 | 3.2 | 3.4 | 3.6 | 3.7 | 3.9 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 5 | 5.1 |

## BM 馬達下折 Motor On Lower Side

單位(mm)

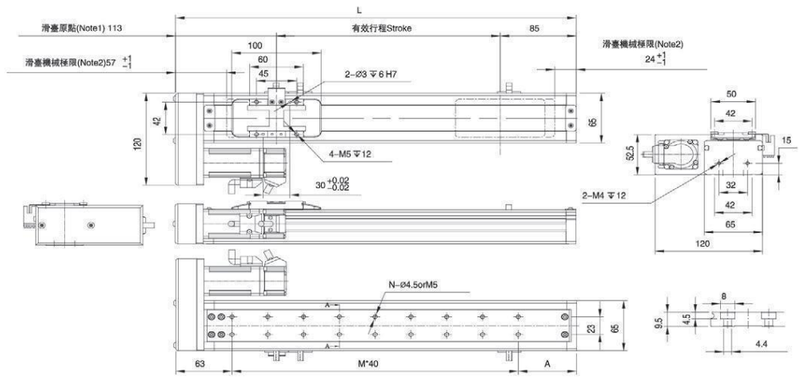



| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 298 | 348 | 398 | 448 | 498 | 548 | 598 | 648 | 698 | 748 | 798 | 848 | 898 | 948 | 998 |
| A | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 45 | 55 |
| M | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 13 | 14 | 15 | 16 | 18 | 19 | 20 |
| N | 8 | 10 | 12 | 14 | 18 | 20 | 22 | 24 | 28 | 30 | 32 | 34 | 38 | 40 | 42 |
| KG | 2.7 | 2.8 | 3 | 3.2 | 3.4 | 3.6 | 3.7 | 3.9 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 5 | 5.1 |

# SYCH6 Series Dust-Free Environment Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

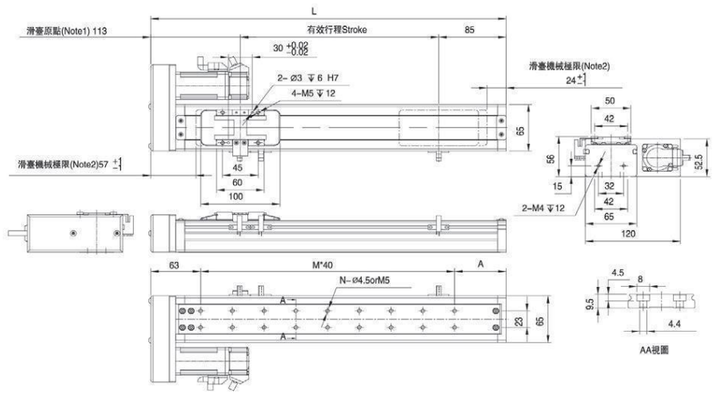
單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 298 | 348 | 398 | 448 | 498 | 548 | 598 | 648 | 698 | 748 | 798 | 848 | 898 | 948 | 998 |
| A | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 45 | 55 |
| M | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 20 | 21 | 22 |
| N | 12 | 14 | 16 | 18 | 22 | 24 | 26 | 28 | 32 | 34 | 36 | 38 | 42 | 44 | 46 |
| KG | 2.7 | 2.8 | 3 | 3.2 | 3.4 | 3.6 | 3.7 | 3.9 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 5 | 5.1 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 Stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 298 | 348 | 398 | 448 | 498 | 548 | 598 | 648 | 698 | 748 | 798 | 848 | 898 | 948 | 998 |
| A | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 45 | 55 | 65 | 35 | 45 | 55 |
| M | 5 | 6 | 7 | 8 | 10 | 11 | 12 | 13 | 15 | 16 | 17 | 18 | 20 | 21 | 22 |
| N | 12 | 14 | 16 | 18 | 22 | 24 | 26 | 28 | 32 | 34 | 36 | 38 | 42 | 44 | 46 |
| KG | 2.7 | 2.8 | 3 | 3.2 | 3.4 | 3.6 | 3.7 | 3.9 | 4.1 | 4.3 | 4.4 | 4.6 | 4.8 | 5 | 5.1 |

# SYCH8 系列 无尘环境丝杆模组



最大行程 Maximum Stroke 1050mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 200W | 滾珠螺桿 Ball Screw φ16mm | 直線滑軌 Linear Guide 15×12.5[1]支

## 型號表示方式 Ordering Method

SYCH8 - L 5 -100 - BC - P20B - C 4 - 0001

- 本體型號 Model
- 螺桿品牌 Ball Screw Brand
  - L:標準臺製
  - T–Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 導程 Lead
  - 5:5mm
  - 10:10mm
  - 16:16mm
  - 20:20mm
- 馬達連接型式 Motor Position
  - BC 馬達外露 Motor Exposed
  - BM 馬達下折 Motor On Lower Side
  - BR 馬達右折 Motor On Right Side
  - BL 馬達左折 Motor On Left Side
- 行程 Stroke
  - 100~1050
- 馬達廠牌 馬達功率 Motor Brand / Power Output
  - P 國際 Panasonic
  - T 臺達 Delta
  - M 三菱 Mitsubishi
  - 10：100W
  - 20：200W
  - 40：400W
- 煞車 Brake
  - B:With Brake 若無煞車則不表示
- 原點光電固定位置 Home Sensor
  - 外掛型 Out Side
  - C：馬達側 Motor Side
  - D：反馬達側 OppoSite Motor Side
  - E：無 SENSOR
- 極限光電數量 Limit Sensor
  - 外掛型 Out Side
  - 3 1祇 1 Pc
  - 4 2祇 2 Pc
  - 5 無 SENSOR
- 特注式樣 Special Order No.

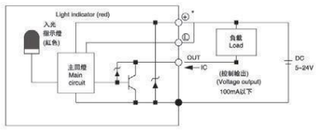
# SYCH8 Series Dust-Free Environment Ball Screw Linear Module

## 基本仕樣 Specification

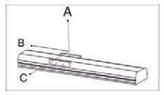
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 16 | 20 |
| | 最高速度 Maximum Speed | | 250 | 500 | 800 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | 38 | 24 | 16 | 11 |
| | | 垂直使用 Vertical | 11 | 8 | 5 | 3.5 |
| | 定格推力 Rated Thrust | | 694 | 352 | 221 | 175 |
| | 標準行程 Stroke Pitch | | 100-1050mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output | | 200 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7 φ16 | | | |
| | 高剛性直線 滑軌 High Rigidity Linear Guide | | 15×12.5 | | | |
| | 聯軸器 Coupling | | 10×11 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |

*行程超过700时,会产生螺桿偏擺,此时请将速度调降

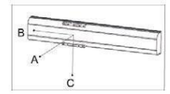
## 感應器接線圖 <原點及端點>Sensor Layout



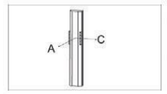

## 容許負戴力距表N.m Allowable Overhang



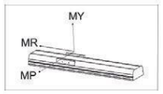
( 單位:mm)



(單位:mm)



(單位:mm)



(單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 16kg | 800 | 115 | 112 |
| | 24kg | 715 | 75 | 80 |
| | 38kg | 285 | 72 | 69 |
| Lead 10 | 10kg | 705 | 120 | 160 |
| | 16kg | 545 | 120 | 105 |
| | 24kg | 305 | 81 | 75 |
| Lead 16 | 3kg | 565 | 255 | 245 |
| | 7kg | 385 | 225 | 160 |
| | 16kg | 305 | 152 | 105 |
| Lead 20 | 3kg | 640 | 405 | 307 |
| | 6kg | 335 | 125 | 105 |
| | 11kg | 255 | 96 | 96 |

| 牆面安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 16kg | 75 | 72 | 615 |
| | 24kg | 94 | 99 | 345 |
| | 38kg | 65 | 50 | 295 |
| Lead 10 | 10kg | 115 | 85 | 505 |
| | 16kg | 95 | 72 | 260 |
| | 24kg | 48 | 38 | 240 |
| Lead 16 | 3kg | 145 | 125 | 455 |
| | 7kg | 85 | 72 | 330 |
| | 16kg | 50 | 50 | 255 |
| Lead 20 | 3kg | 330 | 275 | 455 |
| | 6kg | 215 | 130 | 250 |
| | 11kg | 75 | 45 | 235 |

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| Lead 5 | 3kg | 305 | 265 |
| | 6kg | 195 | 190 |
| | 11kg | 165 | 135 |
| Lead 10 | 2kg | 425 | 335 |
| | 5kg | 265 | 275 |
| | 8kg | 225 | 180 |
| Lead 16 | 1kg | 360 | 385 |
| | 3kg | 300 | 285 |
| | 5kg | 225 | 175 |
| Lead 20 | 2kg | 255 | 255 |
| | 3.5kg | 215 | 215 |

水平使用時
Static Loading Moment

| | |
|---|---|
| MY | 88 |
| MP | 88 |
| MR | 96 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

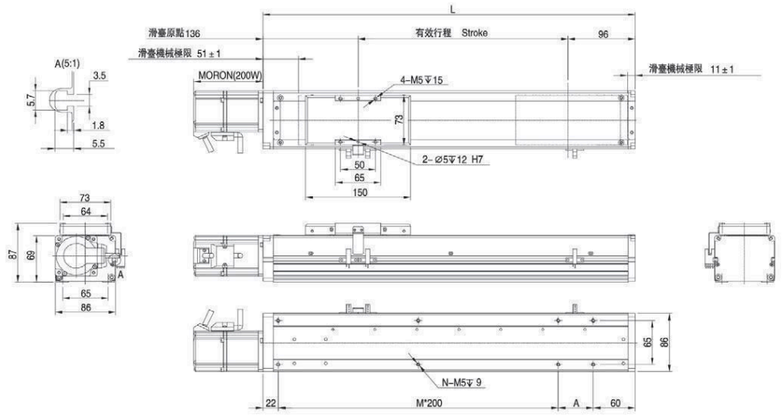
## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC–Voltage AC–V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 200 | 220 | HG-KP23 | MR-J4-20A |
| | | With Brake (Vertical Type) | 200 | 220 | HG-KP23B | MR-J4-20A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 200 | 220 | MHMD022G1U | MADHT1507 |
| | | With Brake (Vertical Type) | 200 | 220 | MHMD022G1V | MADHT1507 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 200 | 220 | ECMA-C20602ES | ASD-B20221-B |
| | | With Brake (Vertical Type) | 200 | 220 | ECMA-C20602FS | ASD-B20221-B |

# SYCH8 系列 无尘环境丝杆模组

## BC 馬達外露 Motor Exposed

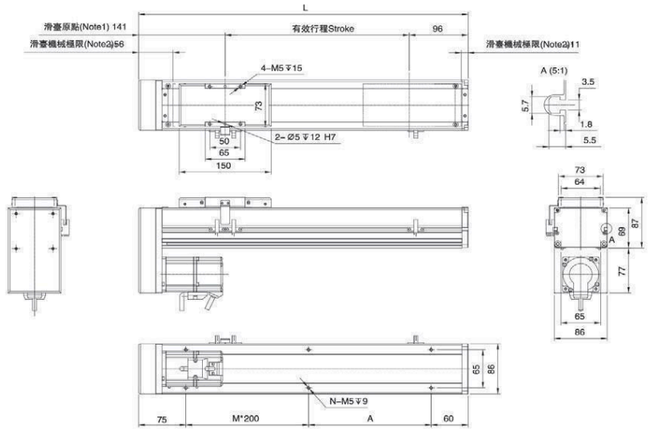
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 332 | 382 | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 | 1182 | 1232 | 1282 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 |
| KG | 4.5 | 4.9 | 5.2 | 5.5 | 5.9 | 6.3 | 6.7 | 7.1 | 7.5 | 7.8 | 8.2 | 8.6 | 9 | 9.4 | 9.8 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 |

## BM 馬達下折 Motor On Lower Side

單位(mm)

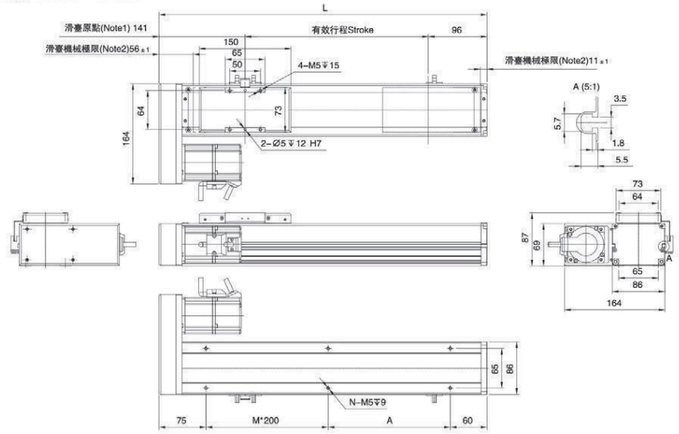



| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 335 | 385 | 435 | 485 | 535 | 585 | 635 | 685 | 735 | 785 | 835 | 885 | 935 | 985 | 1035 | 1085 | 1135 | 1185 | 1235 | 1285 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 4.5 | 4.9 | 5.2 | 5.5 | 5.9 | 6.3 | 6.7 | 7.1 | 7.5 | 7.8 | 8.2 | 8.6 | 9 | 9.4 | 9.8 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 |

# SYCH8 Series Dust-Free Environment Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

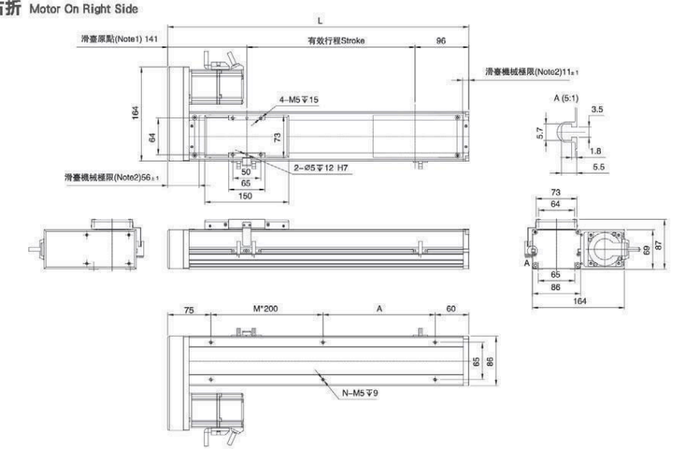
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 335 | 385 | 435 | 485 | 535 | 585 | 635 | 685 | 735 | 785 | 835 | 885 | 935 | 985 | 1035 | 1085 | 1135 | 1185 | 1235 | 1285 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 4.5 | 4.9 | 5.2 | 5.5 | 5.9 | 6.3 | 6.7 | 7.1 | 7.5 | 7.8 | 8.2 | 8.6 | 9 | 9.4 | 9.8 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 |

## BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 335 | 385 | 435 | 485 | 535 | 585 | 635 | 685 | 735 | 785 | 835 | 885 | 935 | 985 | 1035 | 1085 | 1135 | 1185 | 1235 | 1285 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 4.5 | 4.9 | 5.2 | 5.5 | 5.9 | 6.3 | 6.7 | 7.1 | 7.5 | 7.8 | 8.2 | 8.6 | 9 | 9.4 | 9.8 | 10.1 | 10.5 | 10.9 | 11.3 | 11.7 |

# SYCH10 系列 无尘环境丝杆模组



最大行程 Maximum Stroke 1050mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 200W | 滾珠螺桿 Ball Screw φ16mm | 直線滑軌 Linear Guide 20x17.5+1支

## 型號表示方式 Ordering Method

SYCH10 - L 5 -100 - M - P20B - C 4 - 0001

- 本體型號 Model
- 導程 Lead: 5:5mm; 10:10mm; 16:16mm; 20:20mm
- 螺桿品牌 Ball Screw Brand: L:標準臺製; T–Standard MIT; S:STAR; H:HIWIN; K:KURORA; R:THK; N:NSK
- 馬達連接型式 Motor Position: BC 馬達外露 Motor Exposed; BM 馬達下折 Motor On Lower Side; BR 馬達右折 Motor On Right Side; BL 馬達左折 Motor On Left Side
- 行程 Stroke: 100~1050
- 馬達廠牌 馬達功率 Motor Brand Power Output: P 國際 Panasonic; T 臺達 Delta; M 三菱 Mitsubishi; 10：100W; 20：200W
- 煞車 Brake: B:With Brake; 若無煞車則不表示
- 原點光電固定位置 Home Sensor: 內置型 In Side; A: 馬達側 Motor Side; B: 反馬達側 OppoSite Motor Side; 外掛型 Out Side; C：馬達側 Motor Side; D：反馬達側 OppoSite Motor Side; E：無 SENSOR
- 極限光電數量 Limit Sensor: 內置型 In Side; 1:1衹 1Pc; 2:2衹 2Pc; 外掛型 Out Side; 3: 1衹 1 Pc; 4: 2衹 2 Pc; 5: 無 SENSOR
- 特注式樣 Special Order No.

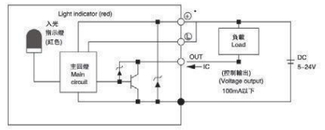
# SYCH10 Series Dust-Free Environment Ball Screw Linear Module

## 基本仕樣 Specification

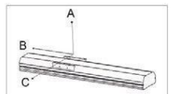
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 16 | 20 |
| | 最高速度 Maximum Speed | | 250 | 500 | 800 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | 48 | 32 | 20 | 13 |
| | | 垂直使用 Vertical | 14 | 9 | 6 | 4 |
| | 定格推力 Rated Thrust | | 694 | 372 | 251 | 185 |
| | 標準行程 Stroke Pitch | | 100-1050mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output | | 200 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7 φ16 | | | |
| | 高剛性直線 滑軌 High Rigidity Linear Guide | | 20×17.5 | | | |
| | 聯軸器 Coupling | | 10×11 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |
| | | 內置 Built In | EE-SX674(NPN) | | | |

*行程超过700时,会产生螺桿偏擺,此时请将速度调降

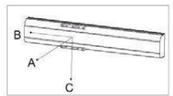
## 感應器接線圖 <原點及端點>Sensor Layout



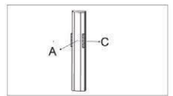

## 容許負載力距表N.m Allowable Overhang



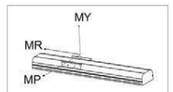
( 單位:mm)



(單位:mm)



(單位:mm)



(單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 20kg | 998 | 140 | 137 |
| | 30kg | 877 | 91 | 100 |
| | 48kg | 364 | 89 | 88 |
| Lead 10 | 12kg | 866 | 154 | 200 |
| | 20kg | 675 | 154 | 130 |
| | 32kg | 375 | 104 | 98 |
| Lead 16 | 4kg | 720 | 360 | 320 |
| | 8kg | 481 | 288 | 200 |
| | 20kg | 381 | 188 | 133 |
| Lead 20 | 4kg | 801 | 521 | 384 |
| | 8kg | 432 | 180 | 164 |
| | 13kg | 380 | 124 | 124 |

| 牆面安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 20kg | 192 | 188 | 760 |
| | 30kg | 112 | 124 | 452 |
| | 48kg | 82 | 50 | 364 |
| Lead 10 | 12kg | 160 | 108 | 650 |
| | 20kg | 128 | 88 | 340 |
| | 32kg | 58 | 44 | 310 |
| Lead 16 | 4kg | 184 | 144 | 560 |
| | 8kg | 102 | 88 | 410 |
| | 20kg | 62 | 62 | 310 |
| Lead 20 | 4kg | 420 | 360 | 570 |
| | 8kg | 260 | 145 | 310 |
| | 13kg | 88 | 55 | 295 |

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| Lead 5 | 4kg | 380 | 350 |
| | 8kg | 241 | 230 |
| | 14kg | 208 | 170 |
| Lead 10 | 3kg | 528 | 425 |
| | 6kg | 330 | 296 |
| | 10kg | 275 | 218 |
| Lead 16 | 2kg | 450 | 493 |
| | 4kg | 375 | 360 |
| | 6kg | 270 | 220 |
| Lead 20 | 2kg | 330 | 330 |
| | 4kg | 260 | 260 |

水平使用時
Static Loading Moment

| | |
|---|---|
| MY | 110 |
| MP | 110 |
| MR | 120 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

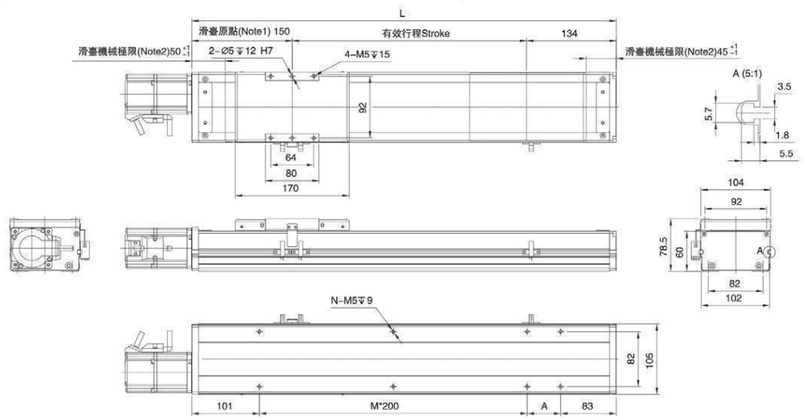
## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC–Voltage AC–V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 200 | 220 | HG-KP23 | MR-J4-20A |
| | | With Brake (Vertical Type) | 200 | 220 | HG-KP23B | MR-J4-20A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 200 | 220 | MHMD022G1U | MADHT1507 |
| | | With Brake (Vertical Type) | 200 | 220 | MHMD022G1V | MADHT1507 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 200 | 220 | ECMA-C20602ES | ASD-B20221-B |
| | | With Brake (Vertical Type) | 200 | 220 | ECMA-C20602FS | ASD-B20221-B |

## SYCH10 系列 无尘环境丝杆模组

### BC 馬達外露 Motor Exposed

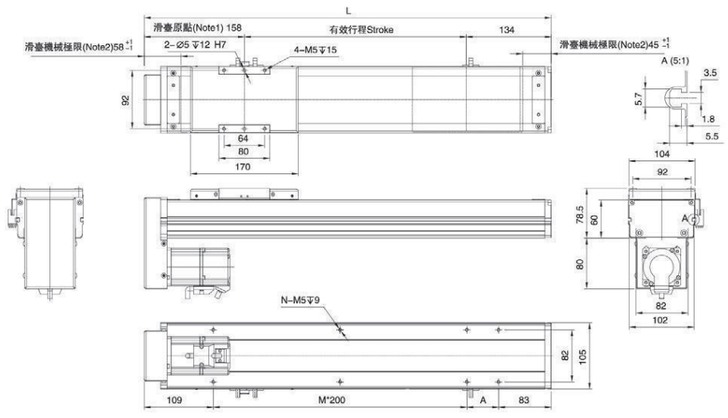
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 384 | 434 | 484 | 534 | 584 | 634 | 684 | 734 | 784 | 834 | 884 | 934 | 984 | 1034 | 1084 | 1134 | 1184 | 1234 | 1284 | 1334 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 8.5 | 8.8 | 9.2 | 9.6 | 10 | 10.4 | 10.8 | 11.2 | 11.5 | 11.9 | 12.3 | 12.7 | 13.1 | 13.5 | 13.9 | 14.2 | 14.6 | 15 | 15.4 | 15.8 |

### BM 馬達下折 Motor On Lower Side

單位(mm)

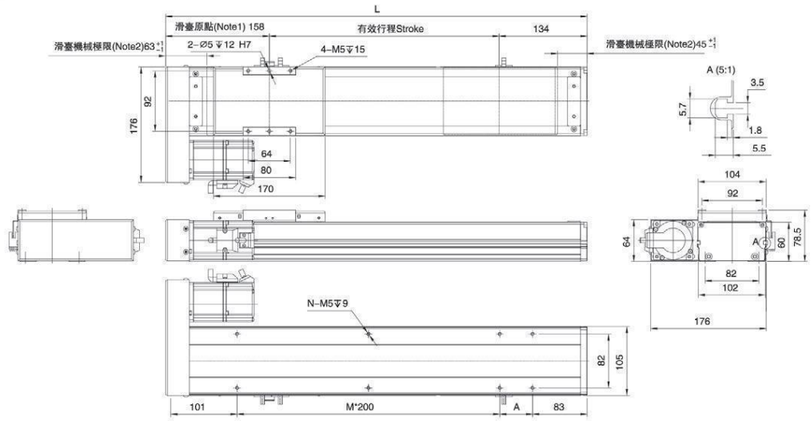



| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 392 | 442 | 492 | 542 | 592 | 642 | 692 | 742 | 792 | 842 | 895 | 942 | 992 | 1042 | 1092 | 1142 | 1192 | 1242 | 1292 | 1342 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 8.5 | 8.8 | 9.2 | 9.6 | 10 | 10.4 | 10.8 | 11.2 | 11.5 | 11.9 | 12.3 | 12.7 | 13.1 | 13.5 | 13.9 | 14.2 | 14.6 | 15 | 15.4 | 15.8 |

## SYCH10 Series Dust-Free Environment Ball Screw Linear Module

### BL 馬達左折 Motor On Left Side

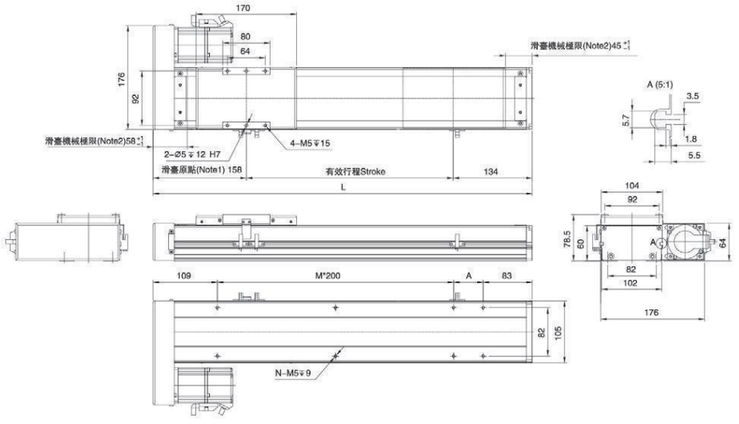
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 392 | 442 | 492 | 542 | 592 | 642 | 692 | 742 | 792 | 842 | 895 | 942 | 992 | 1042 | 1092 | 1142 | 1192 | 1242 | 1292 | 1342 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 8.5 | 8.8 | 9.2 | 9.6 | 10 | 10.4 | 10.8 | 11.2 | 11.5 | 11.9 | 12.3 | 12.7 | 13.1 | 13.5 | 13.9 | 14.2 | 14.6 | 15 | 15.4 | 15.8 |

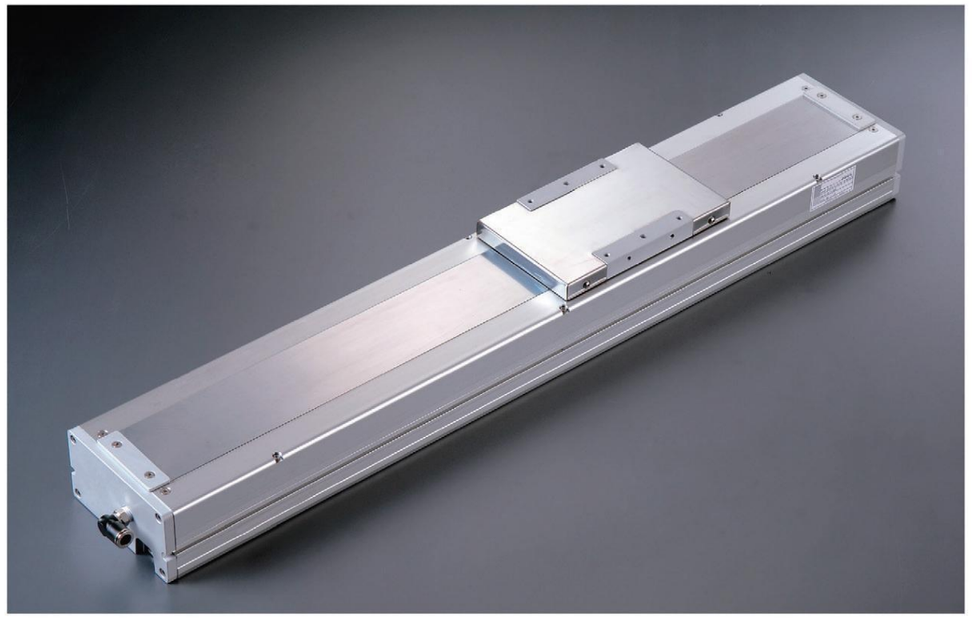
### BR 馬達右折 Motor On Right Side

單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 392 | 442 | 492 | 542 | 592 | 642 | 692 | 742 | 792 | 842 | 895 | 942 | 992 | 1042 | 1092 | 1142 | 1192 | 1242 | 1292 | 1342 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 8.5 | 8.8 | 9.2 | 9.6 | 10 | 10.4 | 10.8 | 11.2 | 11.5 | 11.9 | 12.3 | 12.7 | 13.1 | 13.5 | 13.9 | 14.2 | 14.6 | 15 | 15.4 | 15.8 |

# SYCH12 系列 无尘环境丝杆模组



最大行程 Maximum Stroke 1050mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 200W | 滾珠螺桿 Ball Screw φ16mm | 直線滑軌 Linear Guide 15x125-2支

## 型號表示方式 Ordering Method

SYCH12 - L 5 -100 - M - P20 B -C 4 - 0001

- 本體型號 Model
- 螺桿品牌 Ball Screw Brand
  - L:標準臺製
  - T–Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 導程 Lead
  - 5:5mm
  - 10:10mm
  - 16:16mm
  - 20:20mm
- 行程 Stroke
  - 100~1050
- 馬達連接型式 Motor Position
  - M 馬達直結 Motor buit–in
  - BC 馬達外露 Motor Exposed
  - BM 馬達下折 Motor On Lower Side
  - BR 馬達右折 Motor On Right Side
  - BL 馬達左折 Motor On Left Side
- 馬達廠牌 馬達功率 Motor Brand Power Output
  - P 國際 Panasonic
    - 10：100W
    - 20：200W
    - 40：400W
  - T 臺達 Delta
  - M 三菱 Mitsubishi
- 煞車 Brake
  - B:With Brake
  - 若無煞車則不表示
- 原點光電固定位置 Home Sensor
  - 內置型 In Side
    - A: 馬達側 Motor Side
    - B: 反馬達側 OppoSite Motor Side
  - 外掛型 Out Side
    - C：馬達側 Motor Side
    - D：反馬達側 OppoSite Motor Side
    - E：無 SENSOR
- 極限光電數量 Limit Sensor
  - 內置型 In Side
    - 1:1衹 1Pc
    - 2:2衹 2Pc
  - 外掛型 Out Side
    - 3: 1衹 1 Pc
    - 4: 2衹 2 Pc
    - 5: 無 SENSOR
- 特注式樣 Special Order No.

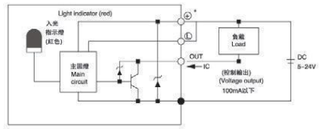
# SYCH12 Series Dust-Free Environment Ball Screw Linear Module

## 基本仕樣 Specification

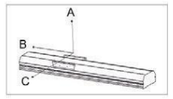
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 16 | 20 |
| | 最高速度 Maximum Speed | | 250 | 500 | 800 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | 60 | 40 | 25 | 17 |
| | | 垂直使用 Vertical | 18 | 12 | 7 | 5 |
| | 定格推力 Rated Thrust | | 694 | 372 | 251 | 185 |
| | 標準行程 Stroke Pitch | | 100-1050mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output | | 200 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7 φ16 | | | |
| | 高剛性直線 滑軌 High Rigidity Linear Guide | | 15×12.5 | | | |
| | 聯軸器 Coupling | | 10×11 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |
| | | 內置 Built In | EE-SX674(NPN) | | | |

*行程超过700时,会产生螺桿偏擺,此时请将速度调降

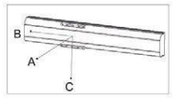
## 感應器接線圖 <原點及端點>Sensor Layout



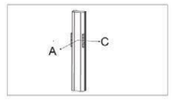

## 容許負載力距表N.m Allowable Overhang



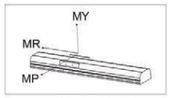

( 單位:mm)




(單位:mm)




(單位:mm)




(單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 30kg | 998 | 140 | 137 |
| | 0kg | 877 | 91 | 100 |
| | 0kg | 364 | 89 | 88 |
| Lead 10 | 15kg | 866 | 154 | 200 |
| | 25kg | 675 | 154 | 130 |
| | 0kg | 375 | 104 | 98 |
| Lead 16 | 5kg | 720 | 360 | 320 |
| | 10kg | 481 | 288 | 200 |
| | 5kg | 381 | 188 | 133 |
| Lead 20 | 5kg | 801 | 521 | 384 |
| | 0kg | 432 | 180 | 164 |
| | 17kg | 380 | 124 | 124 |

| 牆面安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 30kg | 192 | 188 | 760 |
| | 40kg | 112 | 124 | 452 |
| | 60kg | 82 | 50 | 364 |
| Lead 10 | 15kg | 160 | 108 | 650 |
| | 25kg | 128 | 88 | 340 |
| | 40kg | 58 | 44 | 310 |
| Lead 16 | 5kg | 184 | 144 | 560 |
| | 10kg | 102 | 88 | 410 |
| | 25kg | 62 | 62 | 310 |
| Lead 20 | 5kg | 420 | 360 | 570 |
| | 10kg | 260 | 145 | 310 |
| | 17kg | 88 | 55 | 295 |

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| Lead 5 | 5kg | 380 | 350 |
| | 10kg | 241 | 230 |
| | 18kg | 208 | 170 |
| Lead 10 | 4kg | 528 | 425 |
| | 8kg | 330 | 296 |
| | 12kg | 275 | 218 |
| Lead 16 | 2kg | 450 | 493 |
| | 5kg | 375 | 360 |
| | 7kg | 270 | 220 |
| Lead 20 | 3kg | 330 | 330 |
| | 5kg | 260 | 260 |

水平使用時
Static Loading Moment

| | |
|---|---|
| MY | 150 |
| MP | 150 |
| MR | 130 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

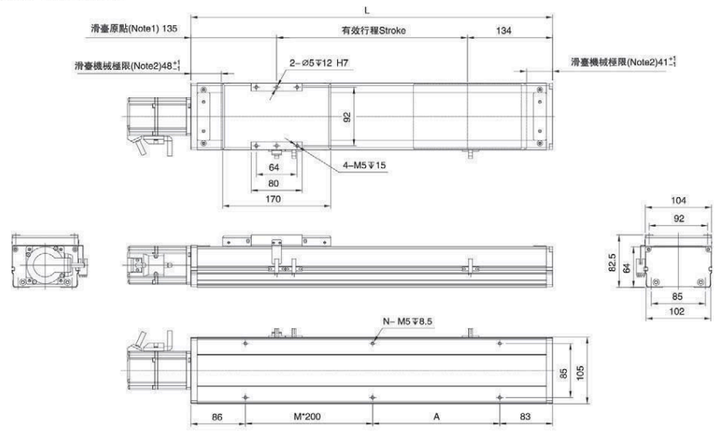
## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC–Voltage AC–V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 200 | 220 | HG-KP23 | MR-J4-20A |
| | | With Brake (Vertical Type) | 200 | 220 | HG-KP23B | MR-J4-20A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 200 | 220 | MHMD022G1U | MADHT1507 |
| | | With Brake (Vertical Type) | 200 | 220 | MHMD022G1V | MADHT1507 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 200 | 220 | ECMA-C20602ES | ASD-B20221-B |
| | | With Brake (Vertical Type) | 200 | 220 | ECMA-C20602FS | ASD-B20221-B |

# SYCH12 系列 无尘环境丝杆模组

## BC 馬達外露 Motor Exposed

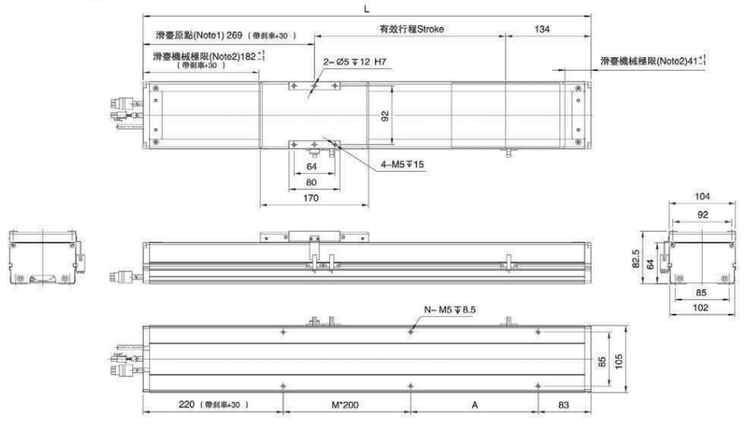
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 369 | 419 | 469 | 519 | 569 | 619 | 669 | 719 | 769 | 819 | 869 | 919 | 969 | 1019 | 1069 | 1119 | 1169 | 1219 | 1269 | 1319 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 6.77 | 7.2 | 7.62 | 8.04 | 8.47 | 8.89 | 9.31 | 9.73 | 10.16 | 10.58 | 11 | 11.43 | 11.85 | 12.27 | 12.7 | 13.12 | 13.54 | 13.96 | 14.39 | 14.81 |

## M 馬達直結 Motor Built-in

單位(mm)

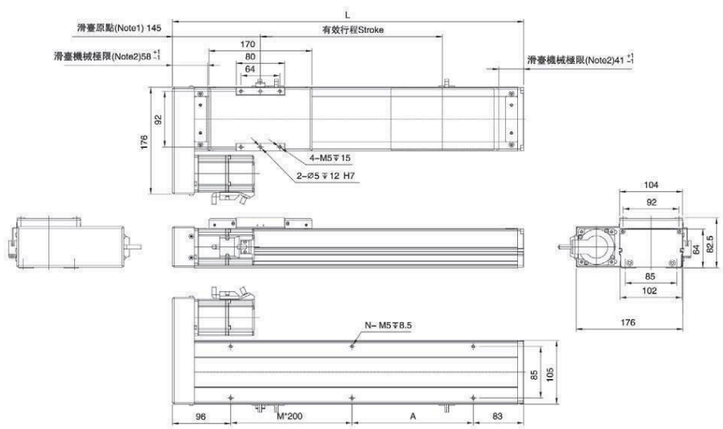



| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 503 | 553 | 603 | 653 | 703 | 753 | 803 | 853 | 903 | 953 | 1003 | 1053 | 1103 | 1153 | 1203 | 1253 | 1303 | 1353 | 1403 | 1453 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 6.77 | 7.2 | 7.62 | 8.04 | 8.47 | 8.89 | 9.31 | 9.73 | 10.16 | 10.58 | 11 | 11.43 | 11.85 | 12.27 | 12.7 | 13.12 | 13.54 | 13.96 | 14.39 | 14.81 |

# SYCH12 Series Dust-Free Environment Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

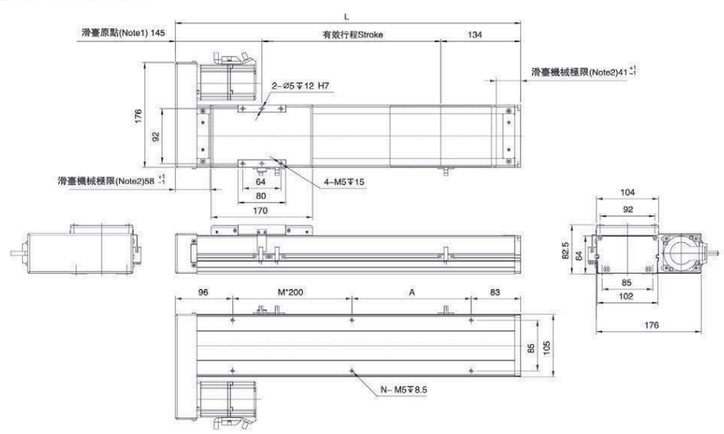
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 379 | 429 | 479 | 529 | 579 | 629 | 679 | 729 | 779 | 829 | 879 | 929 | 979 | 1029 | 1079 | 1129 | 1179 | 1229 | 1279 | 1329 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 6.77 | 7.2 | 7.62 | 8.04 | 8.47 | 8.89 | 9.31 | 9.73 | 10.16 | 10.58 | 11 | 11.43 | 11.85 | 12.27 | 12.7 | 13.12 | 13.54 | 13.96 | 14.39 | 14.81 |

## BR 馬達右折 Motor On Right Side

單位(mm)



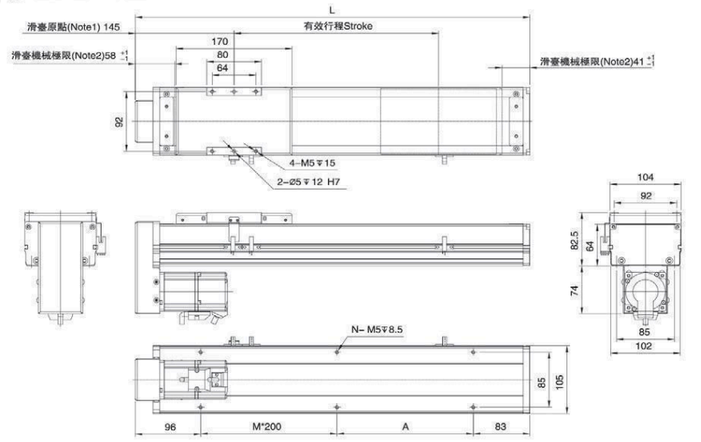

| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 379 | 429 | 479 | 529 | 579 | 629 | 679 | 729 | 779 | 829 | 879 | 929 | 979 | 1029 | 1079 | 1129 | 1179 | 1229 | 1279 | 1329 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 6.77 | 7.2 | 7.62 | 8.04 | 8.47 | 8.89 | 9.31 | 9.73 | 10.16 | 10.58 | 11 | 11.43 | 11.85 | 12.27 | 12.7 | 13.12 | 13.54 | 13.96 | 14.39 | 14.81 |

# SYCH12 系列 无尘环境丝杆模组

# SYCH12 Series Dust-Free Environment Ball Screw Linear Module

BM 馬達下折 Motor On Lower Side

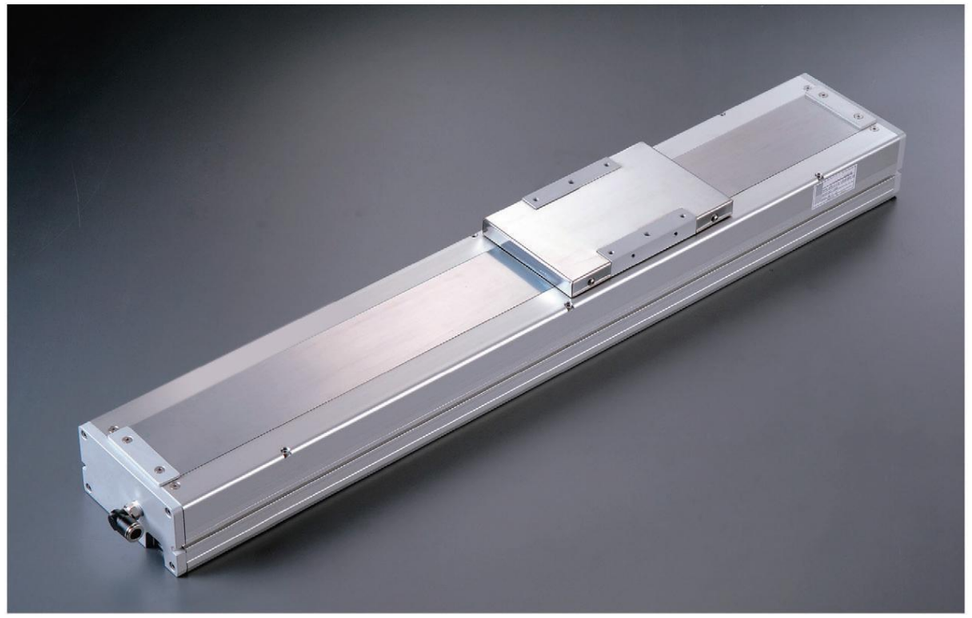
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 379 | 429 | 479 | 529 | 579 | 629 | 679 | 729 | 779 | 829 | 879 | 929 | 979 | 1029 | 1079 | 1129 | 1179 | 1229 | 1279 | 1329 |
| A | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 |
| M | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 |
| N | 4 | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 |
| KG | 6.77 | 7.2 | 7.62 | 8.04 | 8.47 | 8.89 | 9.31 | 9.73 | 10.16 | 10.58 | 11 | 11.43 | 11.85 | 12.27 | 12.7 | 13.12 | 13.54 | 13.96 | 14.39 | 14.81 |

## MEMO

# SYCH14 系列 无尘环境丝杆模组



最大行程 Maximum Stroke 1250mm | 最高速度 Maximum Speed 1000mm/s | 馬達容量 Motor Output 400W | 滾珠螺桿 Ball Screw φ16or20mm | 直線滑軌 Linear Guide 15x125-1支

## 型號表示方式 Ordering Method

SYCH14 - L 5 -100 - M - P40 B-C 4 - 0001

- 本體型號 Model
- 螺桿品牌 Ball Screw Brand
  - L:標準臺製
  - T–Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 導程 Lead
  - 5:5mm
  - 10:10mm
  - 16:16mm
  - 20:20mm
- 行程 Stroke
  - 100~1250
- 馬達連接型式 Motor Position
  - M 馬達直結 Motor buit–in
  - BC 馬達外露 Motor Exposed
  - BM 馬達下折 Motor On Lower Side
  - BR 馬達右折 Motor On Right Side
  - BL 馬達左折 Motor On Left Side
- 馬達廠牌 馬達功率 Motor Brand Power Output
  - P 國際 Panasonic
    - 20：200W
    - 40：400W
  - T 臺達 Delta
  - M 三菱 Mitsubishi
- 煞車 Brake
  - B:With Brake 若無煞車則不表示
- 原點光電固定位置 Home Sensor
  - 內置型 In Side
    - A: 馬達側 Motor Side
    - B: 反馬達側 OppoSite Motor Side
  - 外掛型 Out Side
    - C：馬達側 Motor Side
    - D：反馬達側 OppoSite Motor Side
- 極限光電數量 Limit Sensor
  - 內置型 In Side
    - 1: 1衹 1Pc
    - 2: 2衹 2Pc
  - 外掛型 Out Side
    - 3: 1衹 1 Pc
    - 4: 2衹 2 Pc
    - 5: 無 SENSOR
- 特注式樣 Special Order No.

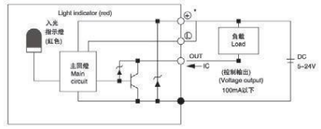
# SYCH14 Series Dust-Free Environment Ball Screw Linear Module

## 基本仕樣 Specification

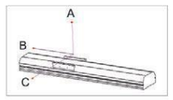
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 16 | 20 |
| | 最高速度 Maximum Speed | | 250 | 500 | 800 | 1000 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | 110 | 88 | 52 | 45 |
| | | 垂直使用 Vertical | 33 | 22 | 15 | 13 |
| | 定格推力 Rated Thrust | | 1388 | 694 | 413 | 385 |
| | 標準行程 Stroke Pitch | | 100-1250mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output | | 400 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7 ϕ16or20 | | | |
| | 高剛性直線 滑軌 High Rigidity Linear Guide | | 15×12.5 | | | |
| | 聯軸器 Coupling | | 10×14 | | | |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |
| | | 內置 Built in | EE-SX674(NPN) | | | |

*行程超过900时,会产生螺桿偏擺,此时请将速度调降

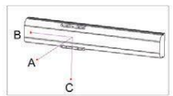
## 感應器接線圖 <原點及端點>Sensor Layout



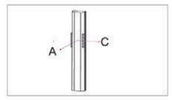

## 容許負載力距表N.m Allowable Overhang



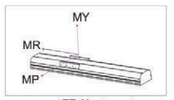
( 單位:mm)



(單位:mm)



(單位:mm)



(單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 60kg | 1348 | 316 | 322 |
| | 80kg | 1197 | 247 | 257 |
| | 110kg | 1075 | 207 | 219 |
| Lead 10 | 30kg | 1558 | 470 | 490 |
| | 50kg | 1160 | 370 | 333 |
| | 88kg | 725 | 247 | 243 |
| Lead 16 | 10kg | 1365 | 874 | 861 |
| | 30kg | 902 | 515 | 497 |
| | 52kg | 547 | 285 | 284 |
| Lead 20 | 10kg | 1163 | 972 | 858 |
| | 25kg | 800 | 552 | 535 |
| | 45kg | 552 | 348 | 328 |

| 牆面安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 60kg | 204 | 212 | 1314 |
| | 80kg | 130 | 157 | 1115 |
| | 110kg | 105 | 124 | 895 |
| Lead 10 | 30kg | 414 | 333 | 1577 |
| | 50kg | 235 | 157 | 1129 |
| | 88kg | 129 | 137 | 651 |
| Lead 16 | 10kg | 461 | 372 | 11310 |
| | 30kg | 264 | 178 | 927 |
| | 52kg | 214 | 169 | 432 |
| Lead 20 | 10kg | 897 | 917 | 1109 |
| | 25kg | 513 | 555 | 885 |
| | 45kg | 268 | 231 | 540 |

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| Lead 5 | 20kg | 762 | 614 |
| | 25kg | 607 | 489 |
| | 33kg | 498 | 483 |
| Lead 10 | 10kg | 1365 | 1101 |
| | 15kg | 901 | 727 |
| | 22kg | 574 | 543 |
| Lead 16 | 3kg | 1067 | 1217 |
| | 9kg | 997 | 805 |
| | 15kg | 587 | 603 |
| Lead 20 | 4kg | 1402 | 1018 |
| | 9kg | 901 | 766 |
| | 13kg | 585 | 615 |

### 水平使用時 Static Loading Moment

| | |
|---|---|
| MY | 551 |
| MP | 552 |
| MR | 485 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

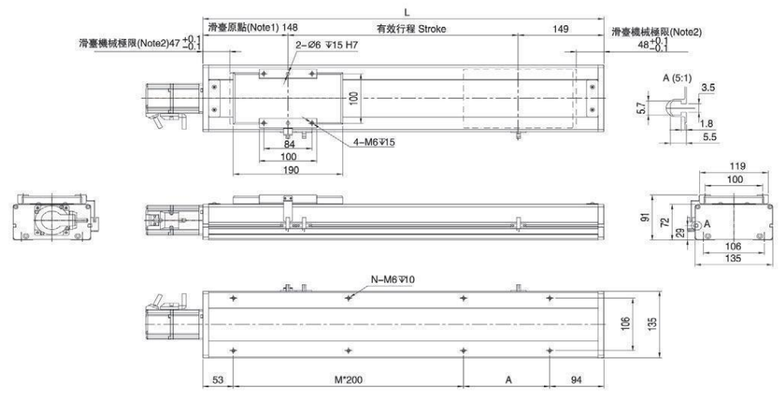
## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC–Voltage AC–V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 400 | 220 | HG-KP43 | MR-J4-40A |
| | | With Brake (Vertical Type) | 400 | 220 | HG-KP43B | MR-J4-40A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 400 | 220 | MHMD042G1U | MBDHT2510 |
| | | With Brake (Vertical Type) | 400 | 220 | MHMD042G1V | MBDHT2510 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 400 | 220 | ECMA-C20604ES | ASD-B20421-B |
| | | With Brake (Vertical Type) | 400 | 220 | ECMA-C20604FS | ASD-B20421-B |

# SYCH14 系列 无尘环境丝杆模组

## BC 馬達外露 Motor Exposed

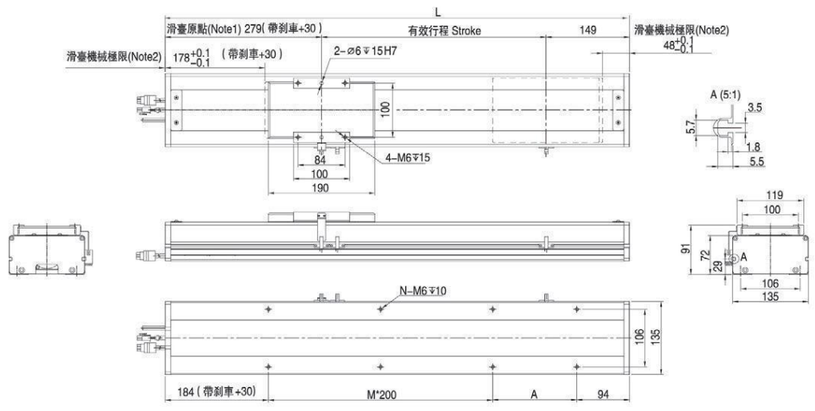
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 397 | 447 | 497 | 547 | 597 | 647 | 697 | 747 | 797 | 847 | 897 | 947 | 997 | 1047 | 1097 | 1147 | 1197 | 1247 | 1297 | 1347 | 1397 | 1447 | 1497 | 1547 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| KG | 10.6 | 11 | 11.5 | 12 | 12.5 | 13 | 13.4 | 14 | 14.4 | 15 | 15.4 | 15.9 | 16.4 | 16.9 | 17.4 | 17.9 | 18.4 | 18.9 | 19.3 | 19.9 | 20.5 | 21.1 | 21.7 | 22.3 |

## M 馬達直結 Motor Built-in

單位(mm)

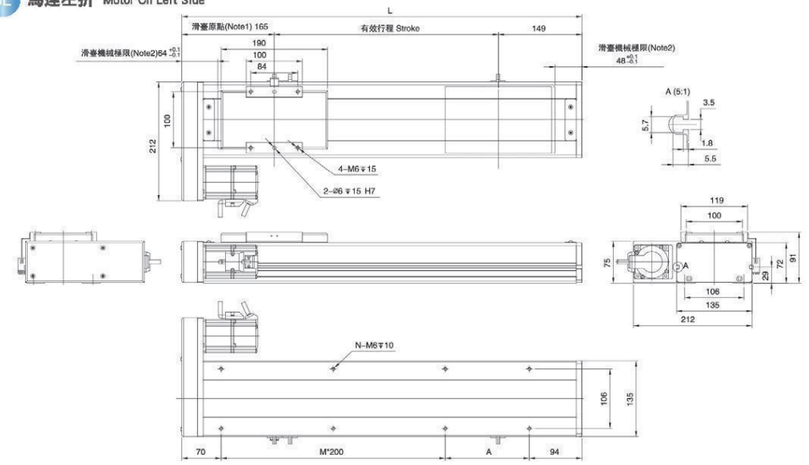



| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 528 | 578 | 628 | 678 | 728 | 778 | 828 | 878 | 928 | 978 | 1028 | 1078 | 1128 | 1178 | 1228 | 1278 | 1328 | 1378 | 1428 | 1478 | 1520 | 1570 | 1620 | 1670 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| KG | 10.6 | 11 | 11.5 | 12 | 12.5 | 13 | 13.4 | 14 | 14.4 | 15 | 15.4 | 15.9 | 16.4 | 16.9 | 17.4 | 17.9 | 18.4 | 18.9 | 19.3 | 19.9 | 20.5 | 21.1 | 21.7 | 22.3 |

# SYCH14 Series Dust-Free Environment Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

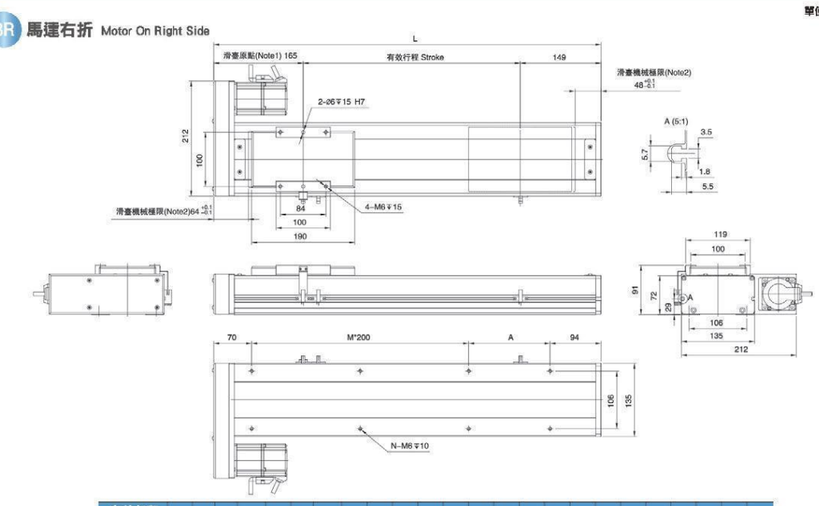
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 414 | 464 | 514 | 564 | 614 | 664 | 714 | 764 | 814 | 864 | 914 | 964 | 1014 | 1064 | 1114 | 1164 | 1214 | 1264 | 1314 | 1364 | 1414 | 1464 | 1514 | 1564 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| KG | 10.6 | 11 | 11.5 | 12 | 12.5 | 13 | 13.4 | 14 | 14.4 | 15 | 15.4 | 15.9 | 16.4 | 16.9 | 17.4 | 17.9 | 18.4 | 18.9 | 19.3 | 19.9 | 20.5 | 21.1 | 21.7 | 22.3 |

## BR 馬達右折 Motor On Right Side

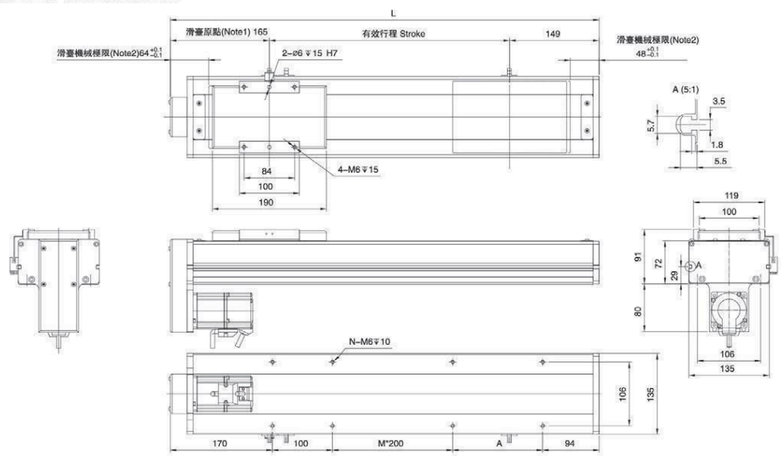
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 414 | 464 | 514 | 564 | 614 | 664 | 714 | 764 | 814 | 864 | 914 | 964 | 1014 | 1064 | 1114 | 1164 | 1214 | 1264 | 1314 | 1364 | 1414 | 1464 | 1514 | 1564 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| KG | 10.6 | 11 | 11.5 | 12 | 12.5 | 13 | 13.4 | 14 | 14.4 | 15 | 15.4 | 15.9 | 16.4 | 16.9 | 17.4 | 17.9 | 18.4 | 18.9 | 19.3 | 19.9 | 20.5 | 21.1 | 21.7 | 22.3 |

BM 馬達下折 Motor On Lower Side

單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 414 | 464 | 514 | 564 | 614 | 664 | 714 | 764 | 814 | 864 | 914 | 964 | 1014 | 1064 | 1114 | 1164 | 1214 | 1264 | 1314 | 1364 | 1414 | 1464 | 1514 | 1564 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 |
| M | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 |
| KG | 10.6 | 11 | 11.5 | 12 | 12.5 | 13 | 13.4 | 14 | 14.4 | 15 | 15.4 | 15.9 | 16.4 | 16.9 | 17.4 | 17.9 | 18.4 | 18.9 | 19.3 | 19.9 | 20.5 | 21.1 | 21.7 | 22.3 |

## MEMO

# SYCH17 系列 无尘环境丝杆模组



最大行程 Maximum Stroke 1550mm | 最高速度 Maximum Speed 1250mm/s | 馬達容量 Motor Output 750W | 滾珠螺桿 Ball Screw ϕ20or25mm | 直線滑軌 Linear Guide 20x15.5-2支

## 型號表示方式 Ordering Method

SYCH17 - L 5 -100 - M - P75 B - C 4 - 0001

- 本體型號 Model
- 螺桿品牌 Ball Screw Brand
  - L:標準臺製
  - T–Standard MIT
  - S:STAR
  - H:HIWIN
  - K:KURORA
  - R:THK
  - N:NSK
- 導程 Lead
  - 5:5mm
  - 10:10mm
  - 20:20mm
  - 25:25mm
- 行程 Stroke
  - 100~1550
- 馬達連接型式 Motor Position
  - M 馬達直結 Motor buit-in
  - BC 馬達外露 Motor Exposed
  - BM 馬達下折 Motor On Lower Side
  - BR 馬達右折 Motor On Right Side
  - BL 馬達左折 Motor On Left Side
- 煞車 Brake
  - B:With Brake 若無煞車則不表示
- 馬達廠牌 馬達功率 Motor Brand Power Output
  - P 國際 Panasonic
    - 40：400W
    - 75：750W
  - T 臺達 Delta
  - M 三菱 Mitsubishi
- 原點光電固定位置 Home Sensor
  - 內置型 In Side
    - A: 馬達側 Motor Side
    - B: 反馬達側 OppoSite Motor Side
  - 外掛型 Out Side
    - C：馬達側 Motor Side
    - D：反馬達側 OppoSite Motor Side
- 極限光電數量 Limit Sensor
  - 內置型 In Side
    - 1:1裱 1Pc
    - 2:2裱 2Pc
  - 外掛型 Out Side
    - 3: 1裱 1 Pc
    - 4: 2裱 2 Pc
    - 5: 無 SENSOR
- 特注式樣 Special Order No.

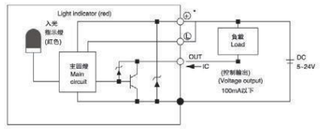
# SYCH17 Series Dust-Free Environment Ball Screw Linear Module

## 基本仕樣 Specification

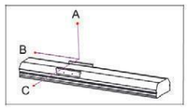
| | | | | | | |
|---|---|---|---|---|---|---|
| 性能 | 位置重復精度 Repeatability | | ±0.01 | | | |
| | 導程 Lead | | 5 | 10 | 20 | 25 |
| | 最高速度 Maximum Speed | | 250 | 500 | 1000 | 1250 |
| | 最大可搬重量 Maximum Payload | 水平使用 Horizontal | 140 | 120 | 83 | 60 |
| | | 垂直使用 Vertical | 55 | 45 | 30 | 25 |
| | 定格推力 Rated Thrust | | 2563 | 1281 | 640 | 522 |
| | 標準行程 Stroke Pitch | | 100-1550mm/50pitch | | | |
| 部品 | AC伺服馬達容量 AC Servo Motor Output | | 750 | | | |
| | 滾珠螺桿 外徑 Ball Screw | | C7ϕ20 | | | C7ϕ25 |
| | 高剛性直線 滑軌 High Rigidity Linear Guide | | 20×15.5 | | | |
| | 聯軸器 Coupling | | 12×19 | | | 17×19 |
| | 原點感應器 Home Sensor | 外掛 Outside | EE-SX672(NPN) | | | |
| | | 內置 Built in | EE-SX672(NPN) | | | |

*行程超过1100时,会产生螺桿偏擺,此时请将速度调降

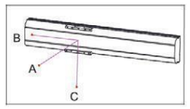
## 感應器接線圖 <原點及端點>Sensor Layout



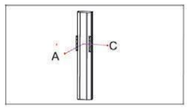

## 容許負載力距表N.m Allowable Overhang



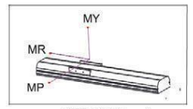

( 單位:mm)




(單位:mm)




(單位:mm)




(單位:N.m)

| 水平安裝 Horizontal Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 60kg | 2448 | 349 | 408 |
| | 100kg | 1995 | 247 | 306 |
| | 140kg | 1446 | 192 | 198 |
| Lead 10 | 60kg | 1791 | 338 | 373 |
| | 90kg | 1245 | 253 | 336 |
| | 120kg | 800 | 164 | 182 |
| Lead 20 | 30kg | 1466 | 447 | 438 |
| | 50kg | 930 | 331 | 378 |
| | 83kg | 554 | 206 | 204 |
| Lead 25 | 10kg | 1345 | 740 | 587 |
| | 30kg | 745 | 491 | 85 |
| | 60kg | 385 | 231 | 180 |

| 牆面安裝 Wall Installation | | A | B | C |
|---|---|---|---|---|
| Lead 5 | 60kg | 430 | 350 | 2438 |
| | 100kg | 277 | 165 | 1995 |
| | 140kg | 215 | 118 | 1436 |
| Lead 10 | 60kg | 418 | 372 | 1741 |
| | 90kg | 293 | 179 | 1240 |
| | 120kg | 230 | 133 | 851 |
| Lead 20 | 30kg | 633 | 644 | 1473 |
| | 50kg | 365 | 369 | 980 |
| | 83kg | 206 | 232 | 556 |
| Lead 25 | 10kg | 757 | 871 | 1350 |
| | 30kg | 345 | 451 | 780 |
| | 60kg | 175 | 251 | 418 |

| 垂直安裝 Vertical Installation | | A | C |
|---|---|---|---|
| Lead 5 | 20kg | 1368 | 1367 |
| | 30kg | 911 | 911 |
| | 55kg | 532 | 532 |
| Lead 10 | 15kg | 1178 | 1178 |
| | 25kg | 850 | 850 |
| | 45kg | 575 | 575 |
| Lead 20 | 5kg | 1050 | 1050 |
| | 15kg | 712 | 712 |
| | 30kg | 515 | 515 |
| Lead 25 | 12kg | 650 | 650 |
| | 25kg | 495 | 495 |

水平使用時
Static Loading Moment

| | |
|---|---|
| MY | 1032 |
| MP | 1034 |
| MR | 908 |

※力距表所表示的數據，代表重心。
The torque value in the chart indicate the center of gravity.
※符合型錄規範的正常使用下，保證壽命為10000公里。
Operation life is 10,000km when the product is using under the specified conditions.

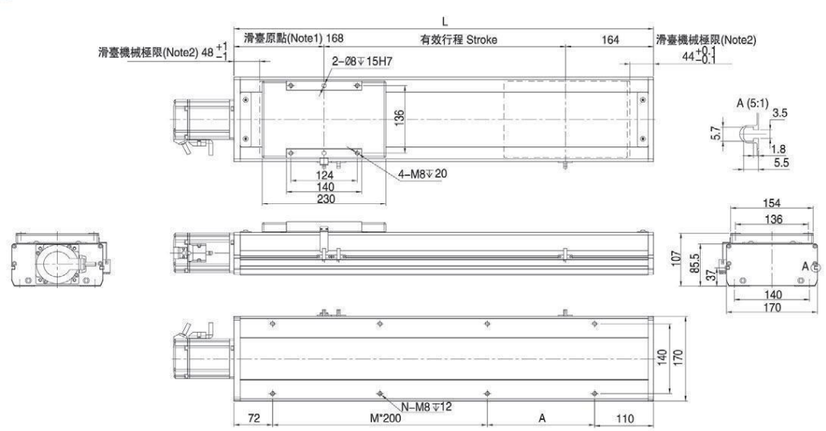
## 搭配伺服馬達一覽表 Suitable Motor Brand

| 廠牌 Brand | 馬達記號 Mark | 煞車有無 Brake | 馬達容量 WatpWatpw W | 電源電壓 AC-Voltage AC-V | 伺服馬達型號 Motor Model | 驅動器型號 Driver Model |
|---|---|---|---|---|---|---|
| 三菱 Mitsubishi | M | No Brake (Horizontal Type) | 750 | 220 | HG-KP73 | MR-J4-70A |
| | | With Brake (Vertical Type) | 750 | 220 | HG-KP73B | MR-J4-70A |
| 國際 Panasonic | P | No Brake (Horizontal Type) | 750 | 220 | MHMD082G1U | MCDHT3520 |
| | | With Brake (Vertical Type) | 750 | 220 | MHMD082G1V | MCDHT3520 |
| 臺達 Delta | T | No Brake (Horizontal Type) | 750 | 220 | ECMA-C20807ES | ASD-B20721-B |
| | | With Brake (Vertical Type) | 750 | 220 | ECMA-C20807FS | ASD-B20721-B |

# SYCH17 系列 无尘环境丝杆模组

## BC 馬達外露 Motor Exposed

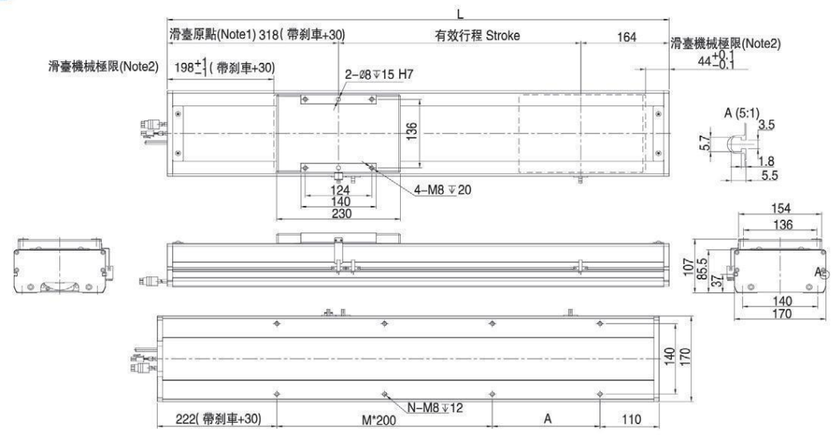
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 432 | 482 | 532 | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 | 1182 | 1232 | 1282 | 1332 | 1382 | 1432 | 1482 | 1532 | 1582 | 1632 | 1682 | 1732 | 1782 | 1832 | 1882 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 14.8 | 15.6 | 16.4 | 17.2 | 17.9 | 18.7 | 19.5 | 20.3 | 21 | 21.8 | 22.6 | 23.4 | 24.1 | 24.9 | 25.7 | 26.5 | 27.2 | 28 | 28.8 | 29.6 | 30.4 | 31.2 | 32 | 32.8 | 33.6 | 34.4 | 35.2 | 36 | 36.8 | 37.6 |

## M 馬達直結 Motor Built-in

單位(mm)

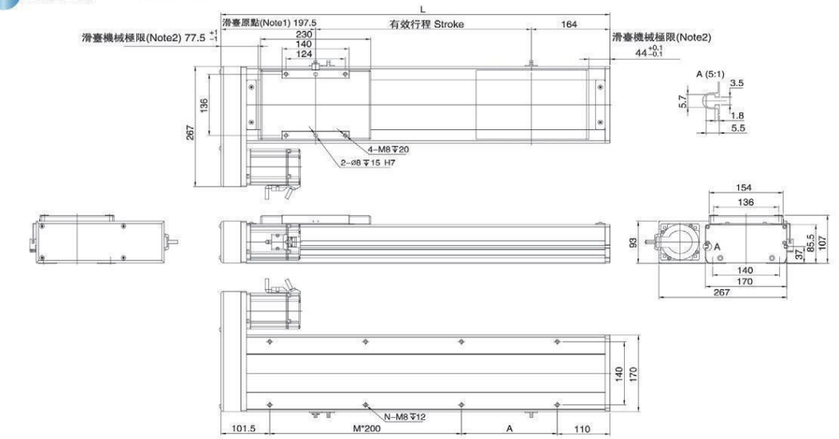



| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 582 | 632 | 682 | 732 | 782 | 832 | 882 | 932 | 982 | 1032 | 1082 | 1132 | 1182 | 1232 | 1282 | 1332 | 1382 | 1432 | 1482 | 1532 | 1582 | 1632 | 1682 | 1732 | 1782 | 1832 | 1882 | 1932 | 1982 | 2032 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 14.8 | 15.6 | 16.4 | 17.2 | 17.9 | 18.7 | 19.5 | 20.3 | 21 | 21.8 | 22.6 | 23.4 | 24.1 | 24.9 | 25.7 | 26.5 | 27.2 | 28 | 28.8 | 29.6 | 30.4 | 31.2 | 32 | 32.8 | 33.6 | 34.4 | 35.2 | 36 | 36.8 | 37.6 |

# SYCH17 Series Dust-Free Environment Ball Screw Linear Module

## BL 馬達左折 Motor On Left Side

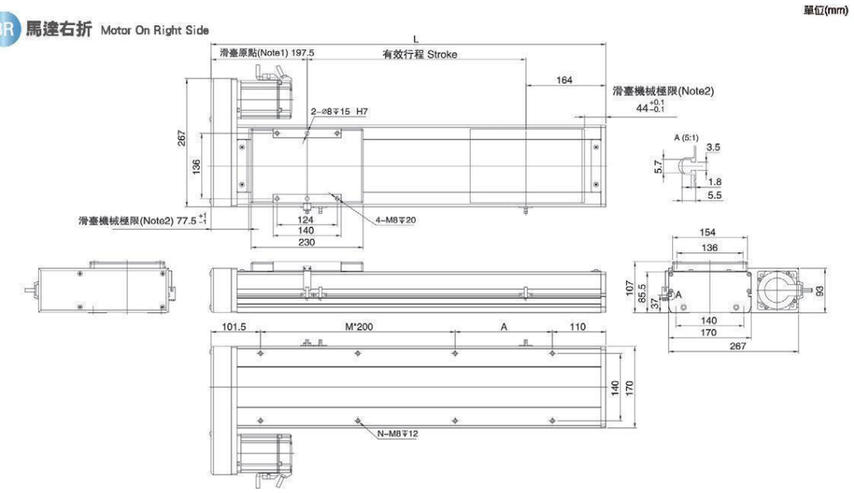
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 461.5 | 511.5 | 561.5 | 611.5 | 661.5 | 711.5 | 761.5 | 811.5 | 861.5 | 911.5 | 961.5 | 1011.5 | 1061.5 | 1111.5 | 1161.5 | 1211.5 | 1261.5 | 1311.5 | 1361.5 | 1411.5 | 1461.5 | 1511.5 | 1561.5 | 1611.5 | 1661.5 | 1711.5 | 1761.5 | 1811.5 | 1861.5 | 1911.5 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 14.8 | 15.6 | 16.4 | 17.2 | 17.9 | 18.7 | 19.5 | 20.3 | 21 | 21.8 | 22.6 | 23.4 | 24.1 | 24.9 | 25.7 | 26.5 | 27.2 | 28 | 28.8 | 29.6 | 30.4 | 31.2 | 32 | 32.8 | 33.6 | 34.4 | 35.2 | 36 | 36.8 | 37.6 |

## BR 馬達右折 Motor On Right Side

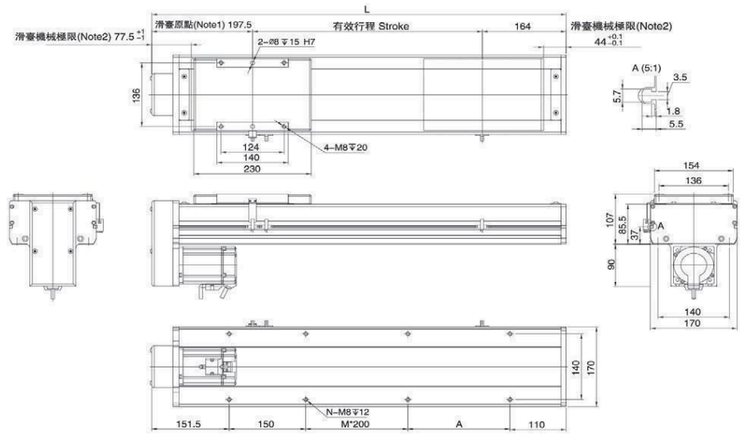
單位(mm)




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 461.5 | 511.5 | 561.5 | 611.5 | 661.5 | 711.5 | 761.5 | 811.5 | 861.5 | 911.5 | 961.5 | 1011.5 | 1061.5 | 1111.5 | 1161.5 | 1211.5 | 1261.5 | 1311.5 | 1361.5 | 1411.5 | 1461.5 | 1511.5 | 1561.5 | 1611.5 | 1661.5 | 1711.5 | 1761.5 | 1811.5 | 1861.5 | 1911.5 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 14.8 | 15.6 | 16.4 | 17.2 | 17.9 | 18.7 | 19.5 | 20.3 | 21 | 21.8 | 22.6 | 23.4 | 24.1 | 24.9 | 25.7 | 26.5 | 27.2 | 28 | 28.8 | 29.6 | 30.4 | 31.2 | 32 | 32.8 | 33.6 | 34.4 | 35.2 | 36 | 36.8 | 37.6 |

單位(mm)

BM 馬達下折 Motor On Lower Side




| 有效行程 stroke | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | 1550 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L | 461.5 | 511.5 | 561.5 | 611.5 | 661.5 | 711.5 | 761.5 | 811.5 | 861.5 | 911.5 | 961.5 | 1011.5 | 1061.5 | 1111.5 | 1161.5 | 1211.5 | 1261.5 | 1311.5 | 1361.5 | 1411.5 | 1461.5 | 1511.5 | 1561.5 | 1611.5 | 1661.5 | 1711.5 | 1761.5 | 1811.5 | 1861.5 | 1911.5 |
| A | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 | 150 | 200 | 50 | 100 |
| M | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 8 | 8 |
| N | 6 | 6 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | 10 | 10 | 12 | 12 | 12 | 12 | 14 | 14 | 14 | 14 | 16 | 16 | 16 | 16 | 18 | 18 | 18 | 18 | 20 | 20 |
| KG | 14.8 | 15.6 | 16.4 | 17.2 | 17.9 | 18.7 | 19.5 | 20.3 | 21 | 21.8 | 22.6 | 23.4 | 24.1 | 24.9 | 25.7 | 26.5 | 27.2 | 28 | 28.8 | 29.6 | 30.4 | 31.2 | 32 | 32.8 | 33.6 | 34.4 | 35.2 | 36 | 36.8 | 37.6 |

## MEMO



滑台模组

欧必帝（天津）传动科技有限公司 欧必帝

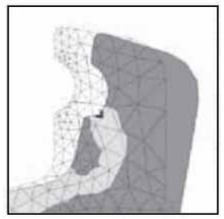
# 工業機器人
# KK型

HIWIN KK工業機器人主要是透過模組化之設計，將滾珠螺桿和線性滑軌整合在一起，因此可提供具有高精度、快速安裝、選用、高剛性、體積小、節省空間等特性。
藉由高精度之滾珠螺桿做為傳動機構，以及配合最佳化設計之U型軌道做為導引機構，來確保精度與剛性之需求。

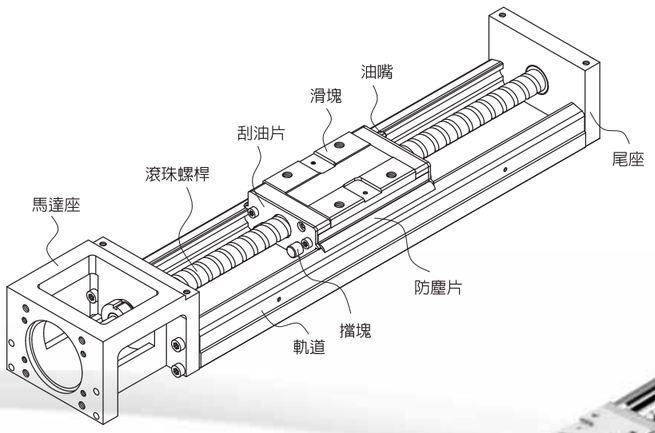
## 1.1 特性

- 設計及安裝容易
- 體積小重量輕
- 高精度
- 高剛性
- 配備齊全
- 最適化設計

  軌道結構由有限元素分析，得到最好剛性與重量，分析如右圖所述：








了解更多信息请致电: 13821742337



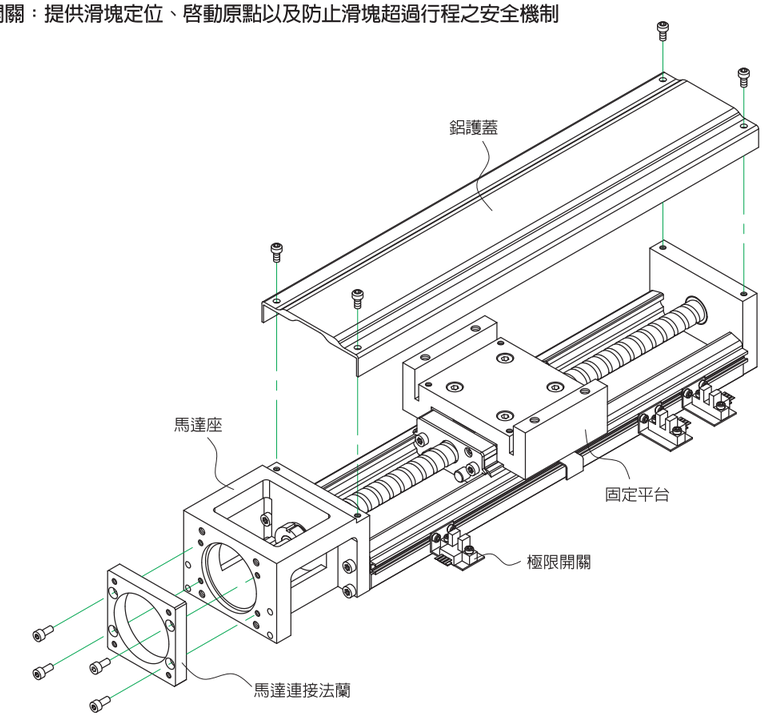


欧必帝 直线传动

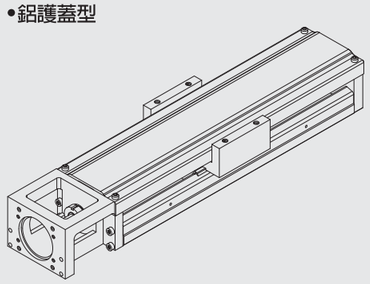
## 1.2 選購配件

為了因應各種的使用需求，KK工業機器人可另外選購鋁護蓋、伸縮護套、馬達連接法蘭、極限開關。

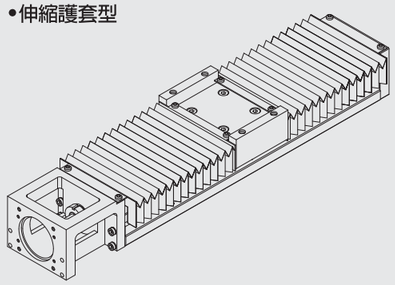
- 鋁護蓋、伸縮護套：可防止異物、雜質進入KK工業機器人之內而影響其使用壽命、精度、順暢度
- 馬達連接法蘭：可將各種不同馬達鎖固於KK工業機器人之上
- 極限開關：提供滑塊定位、啓動原點以及防止滑塊超過行程之安全機制




•鋁護蓋型



•伸縮護套型



## 1.3 產品型號

KK 60D 10 P E - 400 E A 2 E - F0 C S0 M051

KK 系列

尺寸：
30, 40, 50, 60,
60D, 80, 86, 86D,
100, 130

滾珠螺桿導程：
KK30 : 1
KK40 : 1
KK50 : 2
KK60/KK60D : 5, 10
KK80 : 10, 20
KK86/KK86D : 10, 20
KK100 : 20
KK130 : 25

精度等級：
P：精密級，C：一般級

E：滾珠螺桿特殊加工
無記號：滾珠螺桿標準型

軌道長度 (mm)
KK30 : 75, 100, 125, 150, 175, 200
KK40 : 100, 150, 200
KK50 : 150, 200, 250, 300
KK60/KK60D : 150, 200, 300, 400, 500, 600
KK80 : 340, 440, 540, 640, 740, 940
KK86/KK86D : 340, 440, 540, 640, 740, 940
KK100 : 980, 1080, 1180, 1280, 1380
KK130 : 980, 1180, 1380, 1680

E：軌道特殊加工
無記號：軌道標準型

馬達規格：
參考第38頁
M：馬達規格
客戶指定

包含極限開關：參考第46-47頁
S0：只有極限軌道
S1：Omron EE-SX671
S2：Omron EE-SX674
S3：Panasonic GX-F12A
S4：Panasonic GX-F12A-P
S5：YAMATAKE APM-D3B1-03
(KK30適用)
SE：極限開關規格客戶指定
無記號：無

C：鋁護蓋
B：伸縮護套(參考第45頁)
無記號：無護蓋

馬達連接法蘭：
參考第41~45頁
FE：特殊加工

E：滑座特殊加工
無記號：滑座標準型

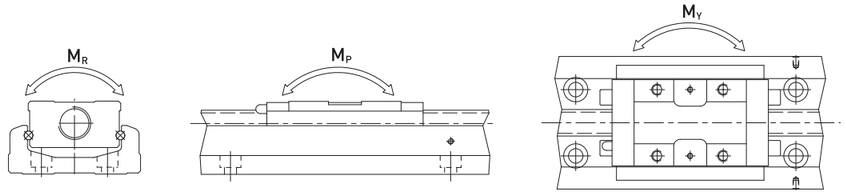
滑座數量：1, 2

滑座型式：
A：標準型
S：輕載型

KK型 精密直线模组 KK-type precision linear module

欧必帝 直线传动

## 1.4 負載規格




| 型號 | | 滾珠螺桿 公稱外徑 (mm) | 滾珠螺桿 導程 (mm) | 滾珠螺桿 基本動額定負荷 (N) | 滾珠螺桿 基本靜額定負荷 (N) | 線性滑軌 基本動額定負荷 (N) 滑座A | 線性滑軌 基本動額定負荷 (N) 滑座S | 線性滑軌 基本靜額定負荷 (N) 滑座A | 線性滑軌 基本靜額定負荷 (N) 滑座S | 容許靜力矩 俯仰 $M_P$ (N-m) 滑座A1 | 俯仰 $M_P$ (N-m) 滑座A2 | 俯仰 $M_P$ (N-m) 滑座S1 | 俯仰 $M_P$ (N-m) 滑座S2 | 偏擺 $M_Y$ (N-m) 滑座A1 | 偏擺 $M_Y$ (N-m) 滑座A2 | 偏擺 $M_Y$ (N-m) 滑座S1 | 偏擺 $M_Y$ (N-m) 滑座S2 | 滾動 $M_R$ (N-m) 滑座A1 | 滾動 $M_R$ (N-m) 滑座A2 | 滾動 $M_R$ (N-m) 滑座S1 | 滾動 $M_R$ (N-m) 滑座S2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KK4001 | 精密級 | 8 | 1 | 735 | 1538 | 3920 | - | 6468 | - | 33 | 182 | - | - | 33 | 182 | - | - | 81 | 162 | - | - |
| | 一般級 | | | 676 | 1284 | | | | | | | | | | | | | | | | |
| KK5002 | 精密級 | 8 | 2 | 2136 | 3489 | 8007 | - | 12916 | - | 116 | 545 | - | - | 116 | 545 | - | - | 222 | 444 | - | - |
| | 一般級 | | | 1813 | 2910 | | | | | | | | | | | | | | | | |
| KK6005 | 精密級 | 12 | 5 | 3744 | 6243 | 13230 | 7173 | 21462 | 11574 | 152 | 760 | 72 | 367 | 152 | 760 | 72 | 367 | 419 | 838 | 241 | 482 |
| | 一般級 | | | 3377 | 5625 | | | | | | | | | | | | | | | | |
| KK6010 | 精密級 | 12 | 10 | 2410 | 3743 | 13230 | 7173 | 21462 | 11574 | 152 | 760 | 72 | 367 | 152 | 760 | 72 | 367 | 419 | 838 | 241 | 482 |
| | 一般級 | | | 2107 | 3234 | | | | | | | | | | | | | | | | |
| KK8610 | 精密級 | 15 | 10 | 7144 | 12642 | 31458 | 21051 | 50764 | 29475 | 622 | 3050 | 166 | 1309 | 622 | 3050 | 166 | 1309 | 1507 | 3014 | 847 | 1694 |
| | 一般級 | | | 6429 | 11387 | | | | | | | | | | | | | | | | |
| KK8620 | 精密級 | 15 | 20 | 4645 | 7655 | 31458 | 21051 | 50764 | 29475 | 622 | 3050 | 166 | 1309 | 622 | 3050 | 166 | 1309 | 1507 | 3014 | 847 | 1694 |
| | 一般級 | | | 4175 | 6889 | | | | | | | | | | | | | | | | |
| KK10020 | 精密級 | 20 | 20 | 7046 | 12544 | 39200 | - | 63406 | - | 960 | 4763 | - | - | 960 | 4763 | - | - | 2205 | 4410 | - | - |
| | 一般級 | | | 4782 | 9163 | | | | | | | | | | | | | | | | |
| KK13025 | 精密級 | 25 | 25 | 7897 | 15931 | 48101 | - | 84829 | | 1536 | 7350 | - | - | 1536 | 7350 | - | - | 3885 | 7770 | - | - |
| | 一般級 | | | 7092 | 14352 | | | | | | | | | | | | | | | | |

## 1.5 精度等級

單位：mm

| 型號 | 軌道長度 | 定位重現性 | | 定位精度 | | 行走平行度 | | 最大啓動扭力 (N-cm) | |
|---|---|---|---|---|---|---|---|---|---|
| | | 精密級 | 一般級 | 精密級 | 一般級 | 精密級 | 一般級 | 精密級 | 一般級 |
| KK40 | 100 | ±0.003 | ±0.01 | 0.020 | - | 0.010 | - | 1.2 | 0.8 |
| | 150 | | | | | | | | |
| | 200 | | | | | | | | |
| KK50 | 150 | ±0.003 | ±0.01 | 0.020 | - | 0.010 | - | 4 | 2 |
| | 200 | | | | | | | | |
| | 250 | | | | | | | | |
| | 300 | | | | | | | | |
| KK60 | 150 | ±0.003 | ±0.01 | 0.020 | - | 0.010 | - | 15 | 7 |
| | 200 | | | | | | | | |
| | 300 | | | | | | | | |
| | 400 | | | | | | | | |
| | 500 | ±0.003 | ±0.01 | 0.025 | - | 0.015 | - | 15 | 7 |
| | 600 | | | | | | | | |
| KK86 | 340 | ±0.003 | ±0.01 | 0.025 | - | 0.015 | - | 15 | 10 |
| | 440 | | | | | | | | |
| | 540 | | | | | | | | |
| | 640 | | | | | | | | |
| | 740 | ±0.003 | ±0.01 | 0.030 | - | 0.020 | - | 17 | 10 |
| | 940 | ±0.003 | ±0.01 | 0.040 | - | 0.030 | - | 25 | 10 |
| KK100 | 980 | ±0.005 | ±0.01 | 0.035 | - | 0.025 | - | 17 | 12 |
| | 1080 | | | | | | | | |
| | 1180 | ±0.005 | ±0.01 | 0.040 | - | 0.03 | - | 20 | 12 |
| | 1280 | ±0.005 | ±0.01 | 0.045 | - | 0.035 | - | 23 | 15 |
| | 1380 | | | 0.05 | | 0.04 | | 25 | |
| KK130 | 980 | ±0.005 | ±0.01 | 0.035 | - | 0.025 | - | 25 | 15 |
| | 1180 | | | 0.04 | | 0.03 | | 25 | 15 |
| | 1380 | | | | | | | | |
| | 1680 | ±0.007 | ±0.012 | 0.05 | - | 0.04 | - | 27 | 18 |

KK型 精密直线模组 KK-type precision linear module



## 1.6 最大速度

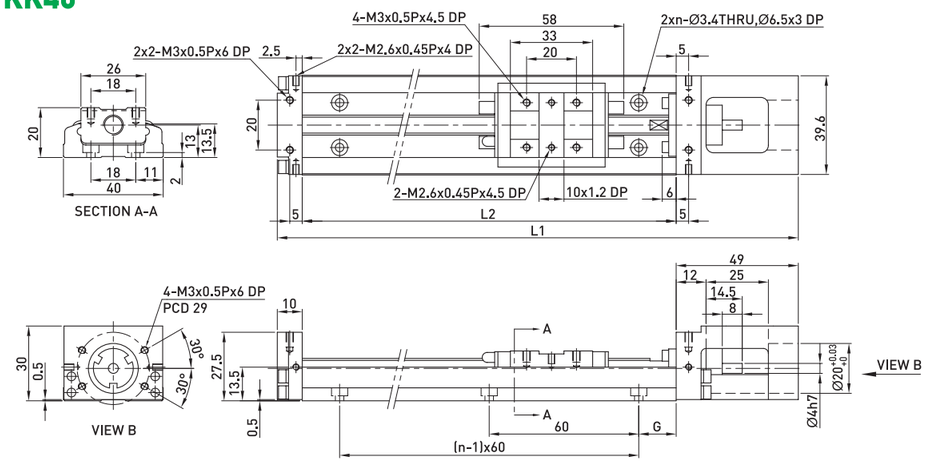
| 型號 | 滾珠螺桿導程 (mm) | 軌道長度L2 (mm) | 速度 (mm/sec) 精密級 | 一般級 |
|---|---|---|---|---|
| KK40 | 01 | 100 | 190 | 190 |
| | | 150 | 190 | 190 |
| | | 200 | 190 | 190 |
| KK50 | 02 | 150 | 270 | 270 |
| | | 200 | 270 | 270 |
| | | 250 | 270 | 270 |
| | | 300 | 270 | 270 |
| KK60 | 05 | 150 | 550 | 390 |
| | | 200 | 550 | 390 |
| | | 300 | 550 | 390 |
| | | 400 | 550 | 390 |
| | | 500 | 550 | 390 |
| | | 600 | 340 | 340 |
| | 10 | 150 | 1100 | 790 |
| | | 200 | 1100 | 790 |
| | | 300 | 1100 | 790 |
| | | 400 | 1100 | 790 |
| | | 500 | 1100 | 790 |
| | | 600 | 670 | 670 |
| KK86 | 10 | 340 | 740 | 520 |
| | | 440 | 740 | 520 |
| | | 540 | 740 | 520 |
| | | 640 | 740 | 520 |
| | | 740 | 740 | 520 |
| | | 940 | 610 | 430 |
| | 20 | 340 | 1480 | 1050 |
| | | 440 | 1480 | 1050 |
| | | 540 | 1480 | 1050 |
| | | 640 | 1480 | 1050 |
| | | 740 | 1480 | 1050 |
| | | 940 | 1220 | 870 |
| KK100 | 20 | 980 | 1120 | 800 |
| | | 1080 | 980 | 800 |
| | | 1180 | 750 | 750 |
| | | 1280 | 510 | 630 |
| | | 1380 | 440 | 530 |
| KK130 | 25 | 980 | 1120 | 800 |
| | | 1180 | 1120 | 800 |
| | | 1380 | 830 | 800 |
| | | 1680 | 550 | 550 |

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## 1.7 KK產品系列

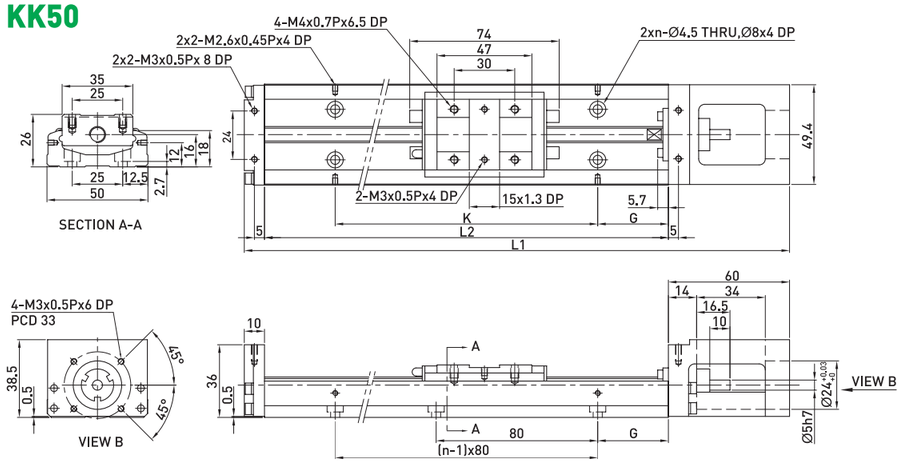
### 1.7.1 不含護蓋

### KK40




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | n | 重量 (kg) | |
|---|---|---|---|---|---|---|---|
| | | A1 滑座 | A2 滑座 | | | A1 滑座 | A2 滑座 |
| 100 | 159 | 36 | - | 20 | 2 | 0.48 | - |
| 150 | 209 | 86 | 34 | 15 | 3 | 0.6 | 0.67 |
| 200 | 259 | 136 | 84 | 40 | 3 | 0.72 | 0.79 |

### KK50

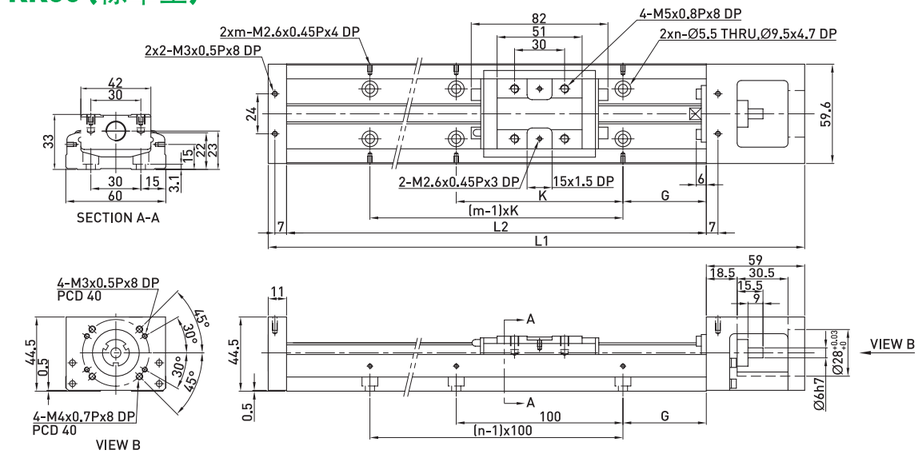



| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|
| | | A1 滑座 | A2 滑座 | | | | A1 滑座 | A2 滑座 |
| 150 | 220 | 70 | - | 35 | 80 | 2 | 1 | - |
| 200 | 270 | 120 | 55 | 20 | 160 | 3 | 1.2 | 1.4 |
| 250 | 320 | 170 | 105 | 45 | 160 | 3 | 1.4 | 1.6 |
| 300 | 370 | 220 | 155 | 30 | 240 | 4 | 1.6 | 1.8 |



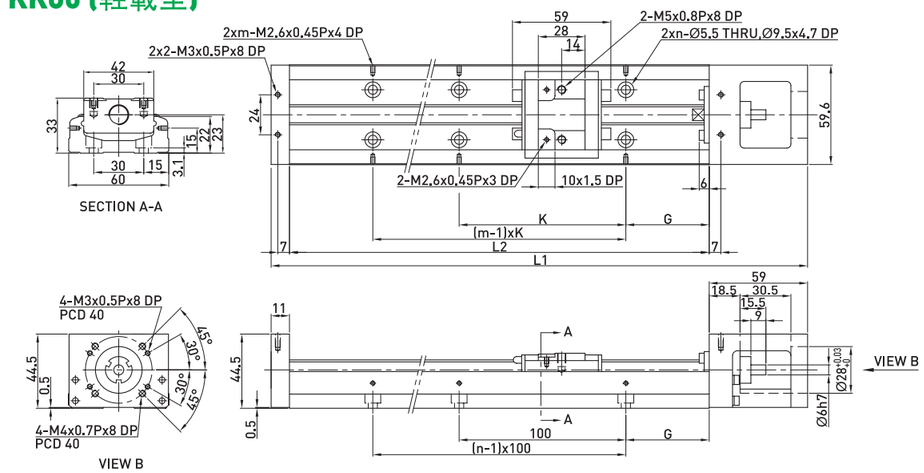
欧必帝 直线传动

### KK60 (標準型)




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | m | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | A1 滑座 | A2 滑座 | | | | | A1 滑座 | A2 滑座 |
| 150 | 220 | 60 | - | 25 | 100 | 2 | 2 | 1.5 | - |
| 200 | 270 | 110 | - | 50 | 100 | 2 | 2 | 1.8 | - |
| 300 | 370 | 210 | 135 | 50 | 200 | 3 | 2 | 2.4 | 2.7 |
| 400 | 470 | 310 | 235 | 50 | 100 | 4 | 4 | 3 | 3.3 |
| 500 | 570 | 410 | 335 | 50 | 200 | 5 | 3 | 3.6 | 3.9 |
| 600 | 670 | 510 | 435 | 50 | 100 | 6 | 6 | 4.2 | 4.6 |

### KK60 (輕載型)

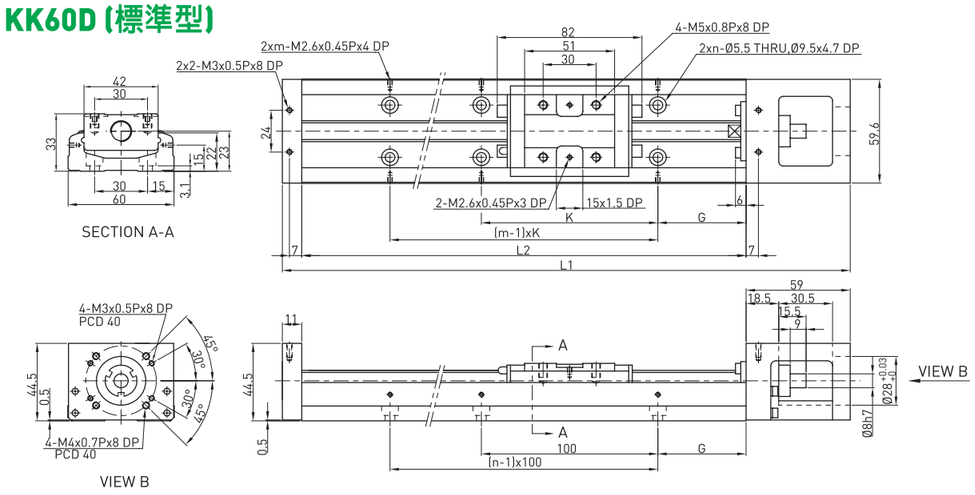



| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | m | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | S1 滑座 | S2 滑座 | | | | | S1 滑座 | S2 滑座 |
| 150 | 220 | 85 | 34 | 25 | 100 | 2 | 2 | 1.4 | 1.6 |
| 200 | 270 | 135 | 84 | 50 | 100 | 2 | 2 | 1.7 | 1.9 |
| 300 | 370 | 235 | 184 | 50 | 200 | 3 | 2 | 2.3 | 2.5 |
| 400 | 470 | 335 | 284 | 50 | 100 | 4 | 4 | 2.9 | 3.1 |
| 500 | 570 | 435 | 384 | 50 | 200 | 5 | 3 | 3.5 | 3.7 |
| 600 | 670 | 535 | 484 | 50 | 100 | 6 | 6 | 4.1 | 4.3 |

# KK60D 精密直线模组 KK60-type precision linear module

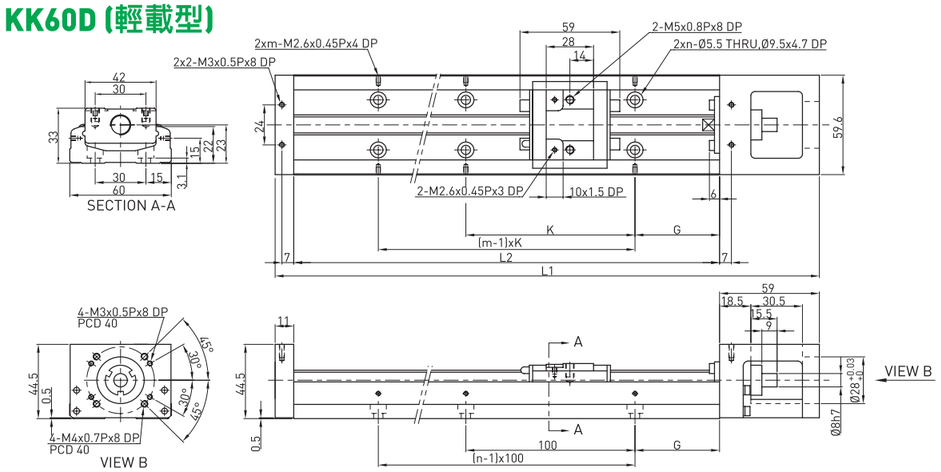
欧必帝（天津）传动科技有限公司

## KK60D (標準型)




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) A1 滑座 | 最大行程 (mm) A2 滑座 | G (mm) | K (mm) | n | m | 重量 (kg) A1 滑座 | 重量 (kg) A2 滑座 |
|---|---|---|---|---|---|---|---|---|---|
| 150 | 220 | 60 | - | 25 | 100 | 2 | 2 | 1.5 | - |
| 200 | 270 | 110 | - | 50 | 100 | 2 | 2 | 1.8 | - |
| 300 | 370 | 210 | 135 | 50 | 200 | 3 | 2 | 2.4 | 2.7 |
| 400 | 470 | 310 | 235 | 50 | 100 | 4 | 4 | 3 | 3.3 |
| 500 | 570 | 410 | 335 | 50 | 200 | 5 | 3 | 3.6 | 3.9 |
| 600 | 670 | 510 | 435 | 50 | 100 | 6 | 6 | 4.2 | 4.6 |

## KK60D (輕載型)

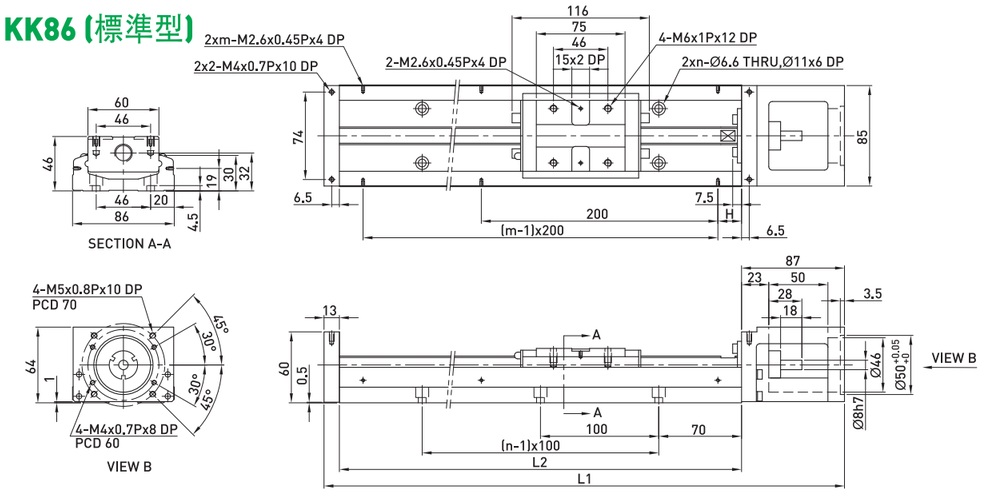



| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) S1 滑座 | 最大行程 (mm) S2 滑座 | G (mm) | K (mm) | n | m | 重量 (kg) S1 滑座 | 重量 (kg) S2 滑座 |
|---|---|---|---|---|---|---|---|---|---|
| 150 | 220 | 85 | 34 | 25 | 100 | 2 | 2 | 1.4 | 1.6 |
| 200 | 270 | 135 | 84 | 50 | 100 | 2 | 2 | 1.7 | 1.9 |
| 300 | 370 | 235 | 184 | 50 | 200 | 3 | 2 | 2.3 | 2.5 |
| 400 | 470 | 335 | 284 | 50 | 100 | 4 | 4 | 2.9 | 3.1 |
| 500 | 570 | 435 | 384 | 50 | 200 | 5 | 3 | 3.5 | 3.7 |
| 600 | 670 | 535 | 484 | 50 | 100 | 6 | 6 | 4.1 | 4.3 |

# KK86 精密直线模组 KK60-type precision linear module

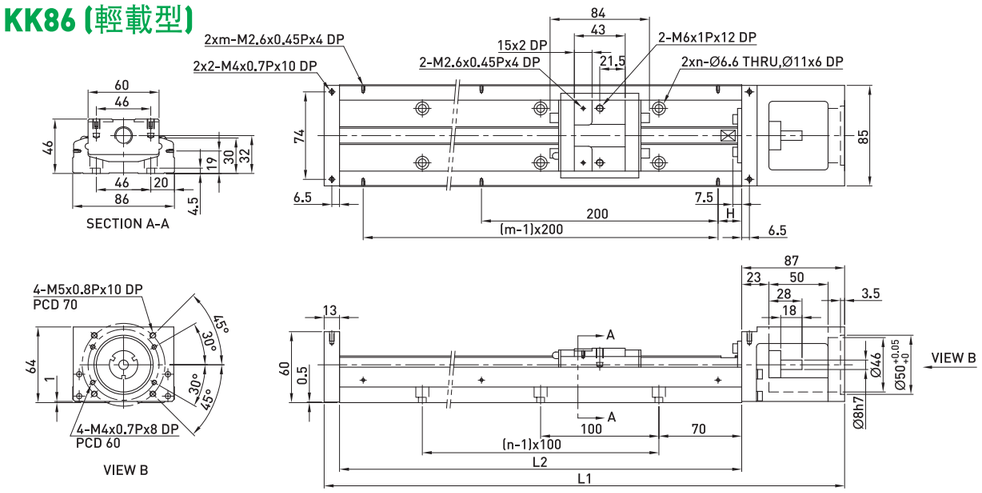
直线传动

## KK86 (標準型)




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) A1 滑座 | 最大行程 (mm) A2 滑座 | H (mm) | n | m | 重量 (kg) A1 滑座 | 重量 (kg) A2 滑座 |
|---|---|---|---|---|---|---|---|---|
| 340 | 440 | 216.5 | 108.5 | 70 | 3 | 2 | 5.7 | 6.5 |
| 440 | 540 | 316.5 | 208.5 | 20 | 4 | 3 | 6.9 | 7.7 |
| 540 | 640 | 416.5 | 308.5 | 70 | 5 | 3 | 8.0 | 8.8 |
| 640 | 740 | 516.5 | 408.5 | 20 | 6 | 4 | 9.2 | 10.0 |
| 740 | 840 | 616.5 | 508.5 | 70 | 7 | 4 | 10.4 | 11.2 |
| 940 | 1040 | 816.5 | 708.5 | 70 | 9 | 5 | 11.6 | 12.4 |

## KK86 (輕載型)

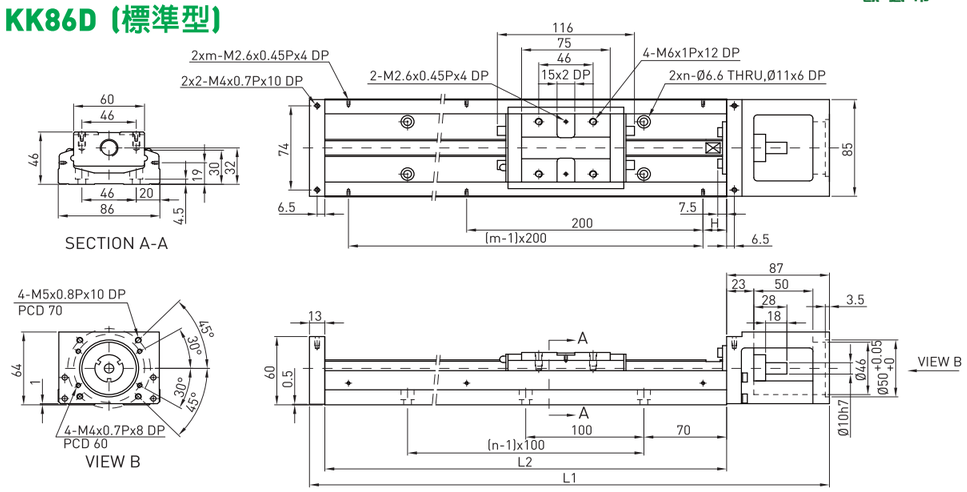



| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) S1 滑座 | 最大行程 (mm) S2 滑座 | H (mm) | n | m | 重量 (kg) S1 滑座 | 重量 (kg) S2 滑座 |
|---|---|---|---|---|---|---|---|---|
| 340 | 440 | 248.5 | 172.5 | 70 | 3 | 2 | 5.4 | 5.9 |
| 440 | 540 | 348.5 | 272.5 | 20 | 4 | 3 | 6.6 | 7.1 |
| 540 | 640 | 448.5 | 372.5 | 70 | 5 | 3 | 7.7 | 8.2 |
| 640 | 740 | 548.5 | 472.5 | 20 | 6 | 4 | 8.9 | 9.4 |
| 740 | 840 | 648.5 | 572.5 | 70 | 7 | 4 | 10.1 | 10.6 |
| 940 | 1040 | 848.5 | 772.5 | 70 | 9 | 5 | 11.3 | 11.8 |

# KK86 精密直线模组 KK86-type precision linear module

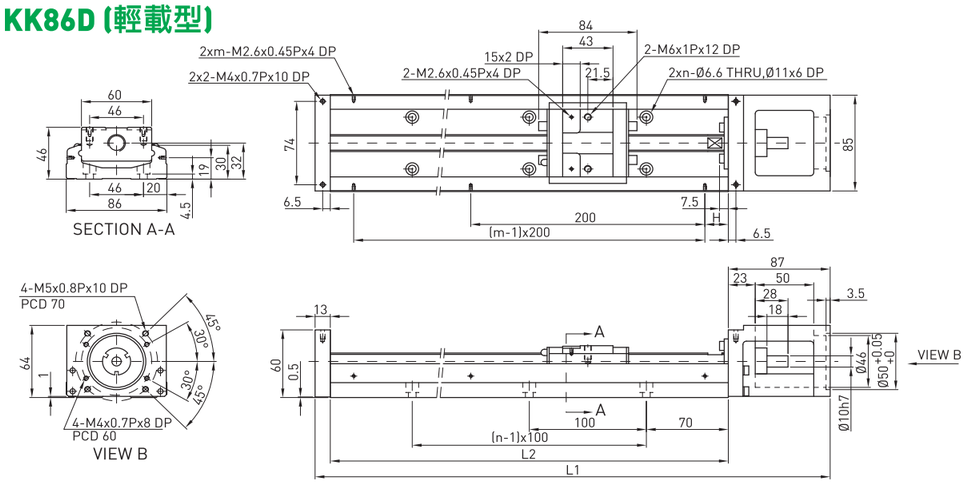
欧必帝（天津）传动科技有限公司

## KK86D (標準型)




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) A1 滑座 | 最大行程 (mm) A2 滑座 | H (mm) | n | m | 重量 (kg) A1 滑座 | 重量 (kg) A2 滑座 |
|---|---|---|---|---|---|---|---|---|
| 340 | 440 | 216.5 | 108.5 | 70 | 3 | 2 | 5.7 | 6.5 |
| 440 | 540 | 316.5 | 208.5 | 20 | 4 | 3 | 6.9 | 7.7 |
| 540 | 640 | 416.5 | 308.5 | 70 | 5 | 3 | 8.0 | 8.8 |
| 640 | 740 | 516.5 | 408.5 | 20 | 6 | 4 | 9.2 | 10.0 |
| 740 | 840 | 616.5 | 508.5 | 70 | 7 | 4 | 10.4 | 11.2 |
| 940 | 1040 | 816.5 | 708.5 | 70 | 9 | 5 | 11.6 | 12.4 |

## KK86D (輕載型)

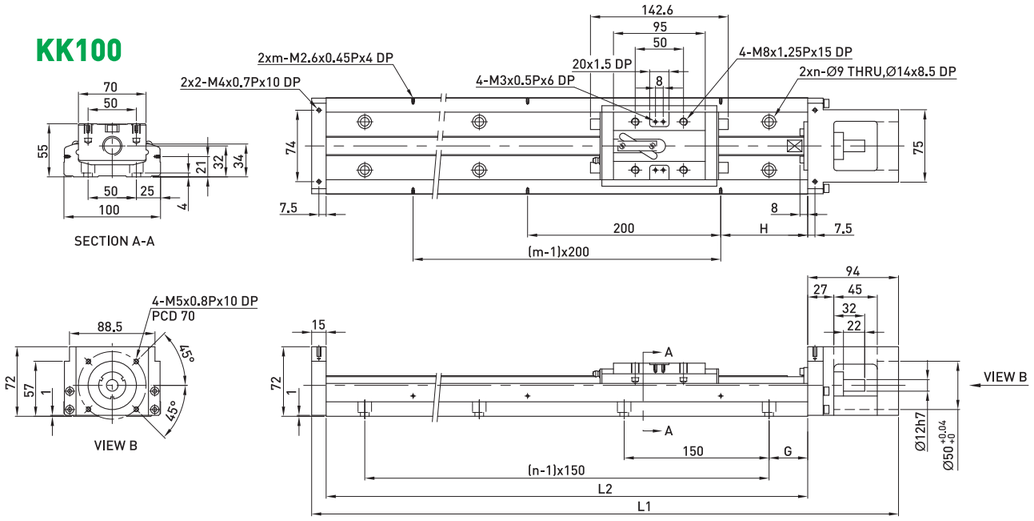



| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) S1 滑座 | 最大行程 (mm) S2 滑座 | H (mm) | n | m | 重量 (kg) S1 滑座 | 重量 (kg) S2 滑座 |
|---|---|---|---|---|---|---|---|---|
| 340 | 440 | 248.5 | 172.5 | 70 | 3 | 2 | 5.4 | 5.9 |
| 440 | 540 | 348.5 | 272.5 | 20 | 4 | 3 | 6.6 | 7.1 |
| 540 | 640 | 448.5 | 372.5 | 70 | 5 | 3 | 7.7 | 8.2 |
| 640 | 740 | 548.5 | 472.5 | 20 | 6 | 4 | 8.9 | 9.4 |
| 740 | 840 | 648.5 | 572.5 | 70 | 7 | 4 | 10.1 | 10.6 |
| 940 | 1040 | 848.5 | 772.5 | 70 | 9 | 5 | 11.3 | 11.8 |

# KK100/130 精密直线模组 KK100/130-type precision linear module

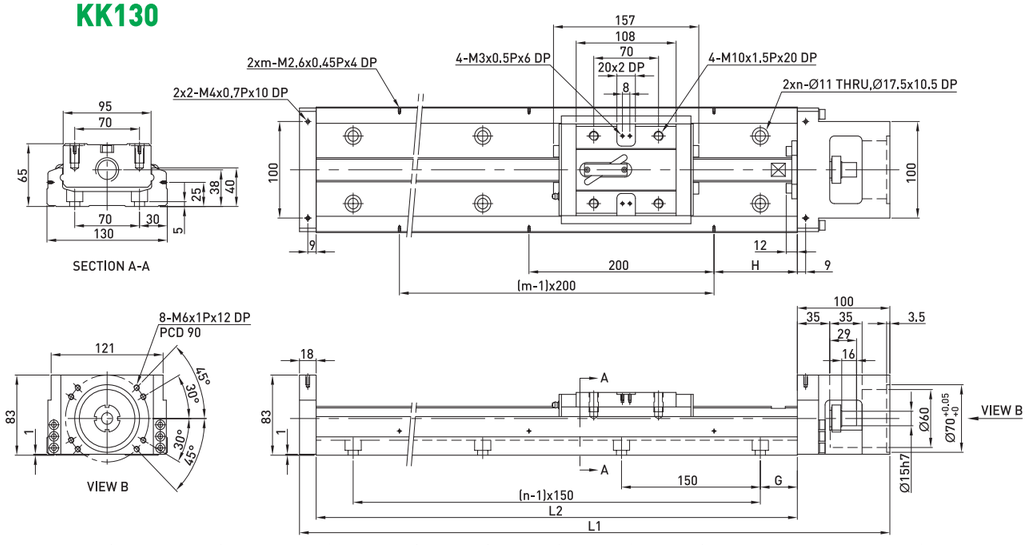
直线传动

## KK100




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) A1 滑座 | 最大行程 (mm) A2 滑座 | G (mm) | H (mm) | n | m | 重量 (kg) A1 滑座 | 重量 (kg) A2 滑座 |
|---|---|---|---|---|---|---|---|---|---|
| 980 | 1089 | 828 | 700 | 40 | 90 | 7 | 5 | 18.6 | 20.3 |
| 1080 | 1189 | 928 | 800 | 15 | 40 | 8 | 6 | 20.3 | 22.0 |
| 1180 | 1289 | 1028 | 900 | 65 | 90 | 8 | 6 | 22.0 | 23.7 |
| 1280 | 1389 | 1128 | 1000 | 40 | 40 | 9 | 7 | 23.6 | 25.3 |
| 1380 | 1489 | 1228 | 1100 | 15 | 90 | 10 | 7 | 25.3 | 27.0 |

## KK130

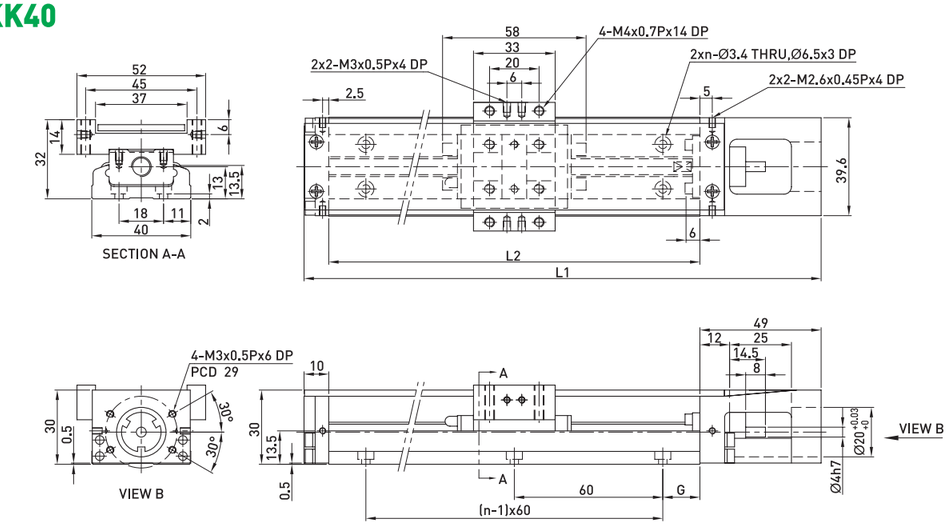



| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) A1 滑座 | 最大行程 (mm) A2 滑座 | G (mm) | H (mm) | n | m | 重量 (kg) A1 滑座 | 重量 (kg) A2 滑座 |
|---|---|---|---|---|---|---|---|---|---|
| 980 | 1098 | 811 | 659 | 40 | 90 | 7 | 5 | 29.4 | 32.3 |
| 1180 | 1298 | 1011 | 859 | 65 | 90 | 8 | 6 | 34.3 | 37.2 |
| 1380 | 1498 | 1211 | 1059 | 90 | 90 | 9 | 7 | 39.2 | 42.1 |
| 1680 | 1798 | 1511 | 1359 | 90 | 40 | 11 | 9 | 46.5 | 49.4 |

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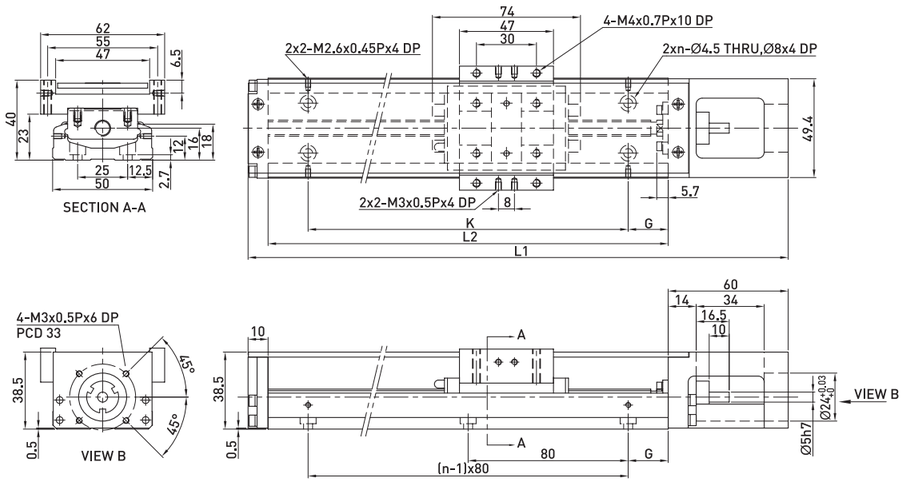
1.7.2 含護蓋

## KK40




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | n | 重量 (kg) | |
|---|---|---|---|---|---|---|---|
| | | A1 滑座 | A2 滑座 | | | A1 滑座 | A2 滑座 |
| 100 | 159 | 36 | - | 20 | 2 | 0.55 | - |
| 150 | 209 | 86 | 34 | 15 | 3 | 0.68 | 0.76 |
| 200 | 259 | 136 | 84 | 40 | 3 | 0.82 | 0.89 |

## KK50



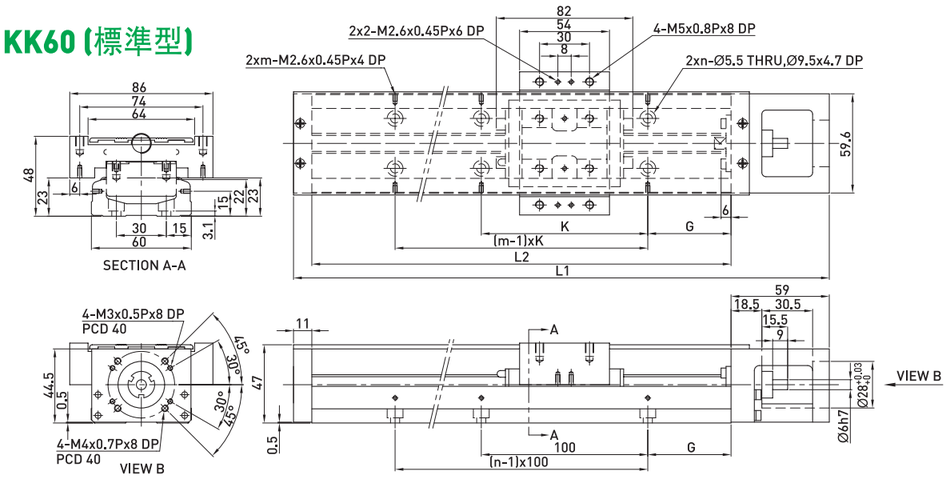

| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|
| | | A1 滑座 | A2 滑座 | | | | A1 滑座 | A2 滑座 |
| 150 | 220 | 70 | - | 35 | 80 | 2 | 1.1 | - |
| 200 | 270 | 120 | 55 | 20 | 160 | 3 | 1.3 | 1.5 |
| 250 | 320 | 170 | 105 | 45 | 160 | 3 | 1.6 | 1.8 |
| 300 | 370 | 220 | 155 | 30 | 240 | 4 | 1.8 | 2.0 |

D



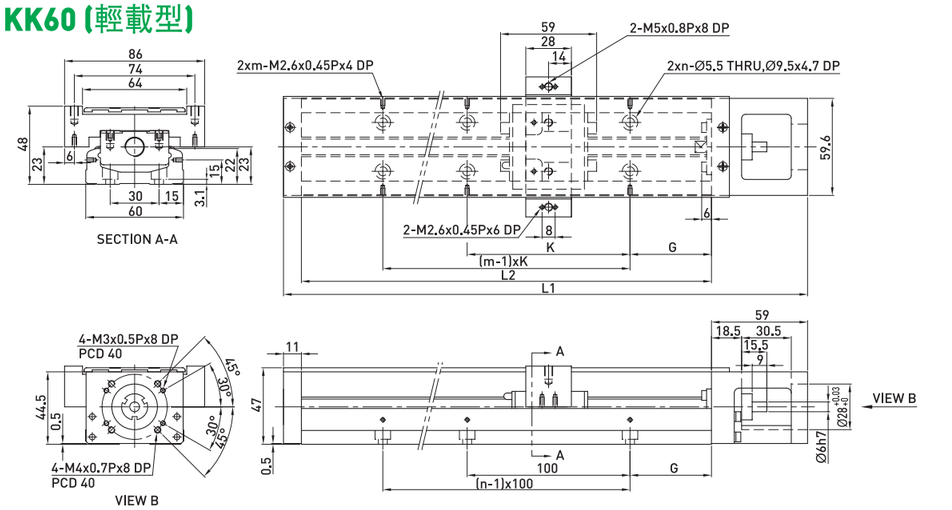
欧必帝 直线传动

## KK60 (標準型)




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | m | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | A1 滑座 | A2 滑座 | | | | | A1 滑座 | A2 滑座 |
| 150 | 220 | 60 | - | 25 | 100 | 2 | 2 | 1.7 | - |
| 200 | 270 | 110 | - | 50 | 100 | 2 | 2 | 2.1 | - |
| 300 | 370 | 210 | 135 | 50 | 200 | 3 | 2 | 2.7 | 3.0 |
| 400 | 470 | 310 | 235 | 50 | 100 | 4 | 4 | 3.3 | 3.6 |
| 500 | 570 | 410 | 335 | 50 | 200 | 5 | 3 | 3.9 | 4.2 |
| 600 | 670 | 510 | 435 | 50 | 100 | 6 | 6 | 4.6 | 5.0 |

## KK60 (輕載型)

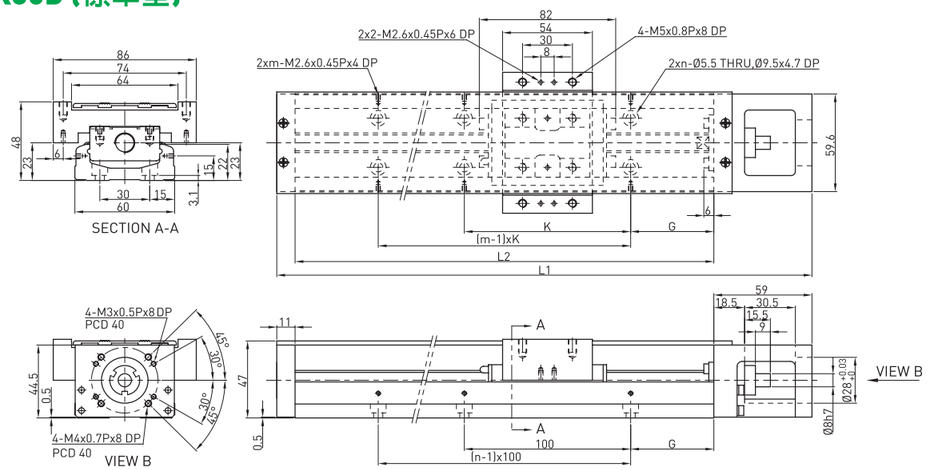



| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | m | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | S1 滑座 | S2 滑座 | | | | | S1 滑座 | S2 滑座 |
| 150 | 220 | 85 | 34 | 25 | 100 | 2 | 2 | 1.6 | 1.8 |
| 200 | 270 | 135 | 84 | 50 | 100 | 2 | 2 | 1.9 | 2.1 |
| 300 | 370 | 235 | 184 | 50 | 200 | 3 | 2 | 2.5 | 2.7 |
| 400 | 470 | 335 | 284 | 50 | 100 | 4 | 4 | 3.1 | 3.3 |
| 500 | 570 | 435 | 384 | 50 | 200 | 5 | 3 | 3.7 | 3.9 |
| 600 | 670 | 535 | 484 | 50 | 100 | 6 | 6 | 4.4 | 4.6 |

# KK60D型精密直线模组KK60-type precision linear module

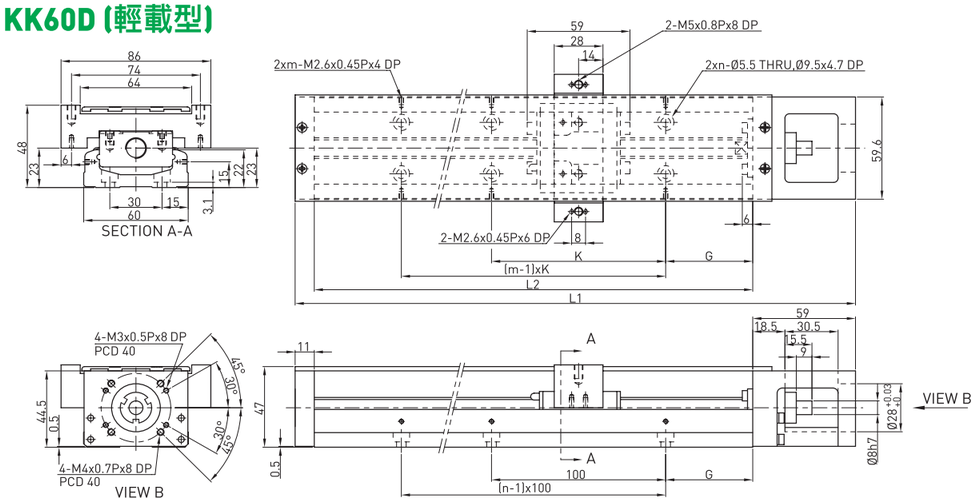
欧必帝（天津）传动科技有限公司

## KK60D (標準型)




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | m | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | A1 滑座 | A2 滑座 | | | | | A1 滑座 | A2 滑座 |
| 150 | 220 | 60 | - | 25 | 100 | 2 | 2 | 1.7 | - |
| 200 | 270 | 110 | - | 50 | 100 | 2 | 2 | 2.1 | - |
| 300 | 370 | 210 | 135 | 50 | 200 | 3 | 2 | 2.7 | 3.0 |
| 400 | 470 | 310 | 235 | 50 | 100 | 4 | 4 | 3.3 | 3.6 |
| 500 | 570 | 410 | 335 | 50 | 200 | 5 | 3 | 3.9 | 4.2 |
| 600 | 670 | 510 | 435 | 50 | 100 | 6 | 6 | 4.6 | 5.0 |

## KK60D (輕載型)

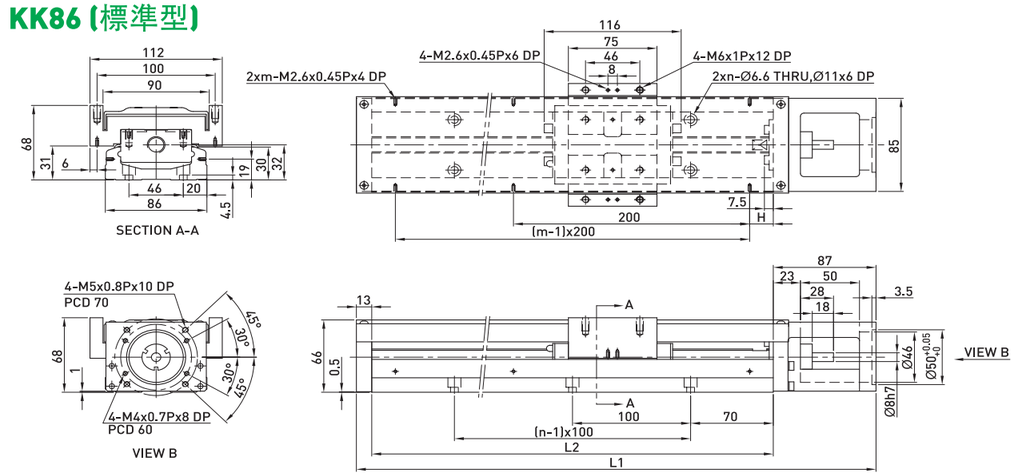



| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | G (mm) | K (mm) | n | m | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|---|
| | | S1 滑座 | S2 滑座 | | | | | S1 滑座 | S2 滑座 |
| 150 | 220 | 85 | 34 | 25 | 100 | 2 | 2 | 1.6 | 1.8 |
| 200 | 270 | 135 | 84 | 50 | 100 | 2 | 2 | 1.9 | 2.1 |
| 300 | 370 | 235 | 184 | 50 | 200 | 3 | 2 | 2.5 | 2.7 |
| 400 | 470 | 335 | 284 | 50 | 100 | 4 | 4 | 3.1 | 3.3 |
| 500 | 570 | 435 | 384 | 50 | 200 | 5 | 3 | 3.7 | 3.9 |
| 600 | 670 | 535 | 484 | 50 | 100 | 6 | 6 | 4.4 | 4.6 |

# KK86型精密直线模组KK86-type precision linear module

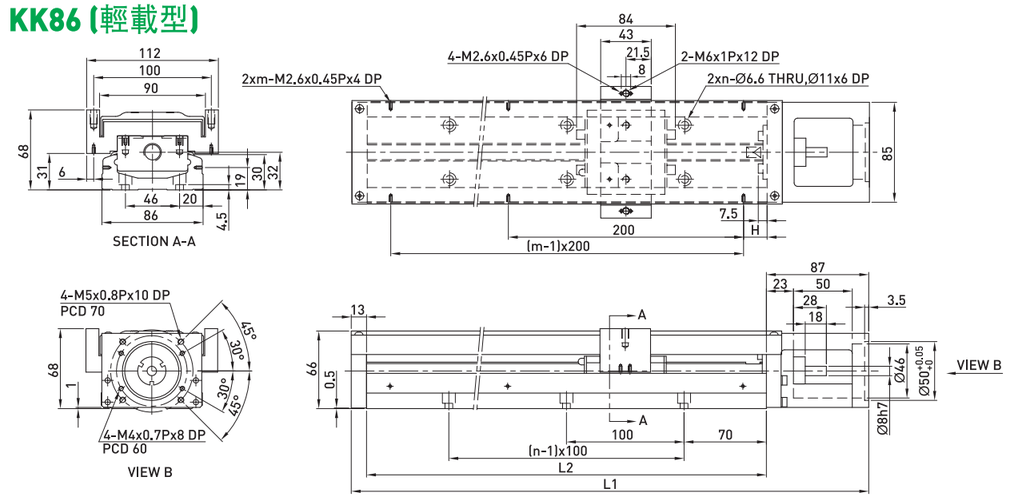
直线传动

## KK86 (標準型)




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | H (mm) | n | m | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|
| | | A1 滑座 | A2 滑座 | | | | A1 滑座 | A2 滑座 |
| 340 | 440 | 216.5 | 108.5 | 70 | 3 | 2 | 6.5 | 7.3 |
| 440 | 540 | 316.5 | 208.5 | 20 | 4 | 3 | 7.8 | 8.6 |
| 540 | 640 | 416.5 | 308.5 | 70 | 5 | 3 | 9.0 | 9.8 |
| 640 | 740 | 516.5 | 408.5 | 20 | 6 | 4 | 10.3 | 11.3 |
| 740 | 840 | 616.5 | 508.5 | 70 | 7 | 4 | 11.6 | 12.4 |
| 940 | 1040 | 816.5 | 708.5 | 70 | 9 | 5 | 13.0 | 13.8 |

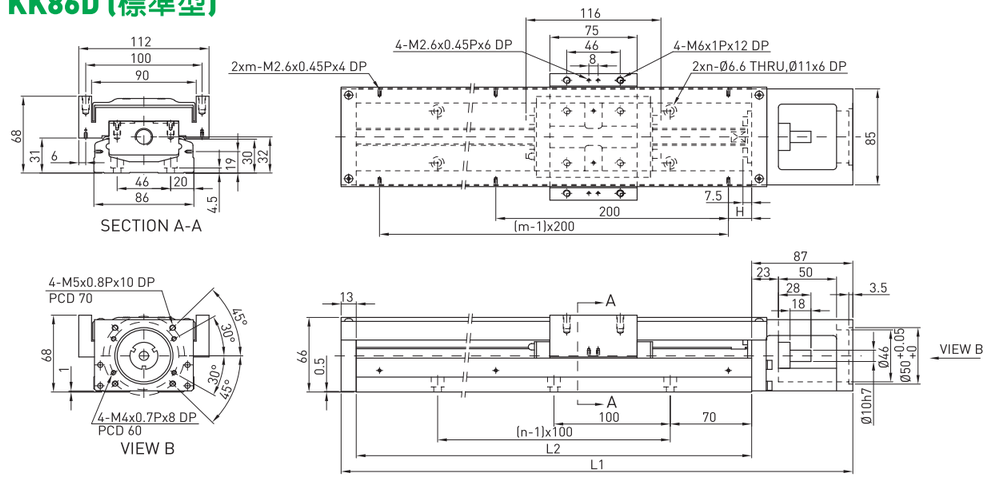
## KK86 (輕載型)




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | H (mm) | n | m | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|
| | | S1 滑座 | S2 滑座 | | | | S1 滑座 | S2 滑座 |
| 340 | 440 | 248.5 | 172.5 | 70 | 3 | 2 | 6.3 | 7.1 |
| 440 | 540 | 348.5 | 272.5 | 20 | 4 | 3 | 7.6 | 8.4 |
| 540 | 640 | 448.5 | 372.5 | 70 | 5 | 3 | 8.8 | 9.6 |
| 640 | 740 | 548.5 | 472.5 | 20 | 6 | 4 | 10.1 | 11.1 |
| 740 | 840 | 648.5 | 572.5 | 70 | 7 | 4 | 11.4 | 12.2 |
| 940 | 1040 | 848.5 | 772.5 | 70 | 9 | 5 | 12.8 | 13.6 |

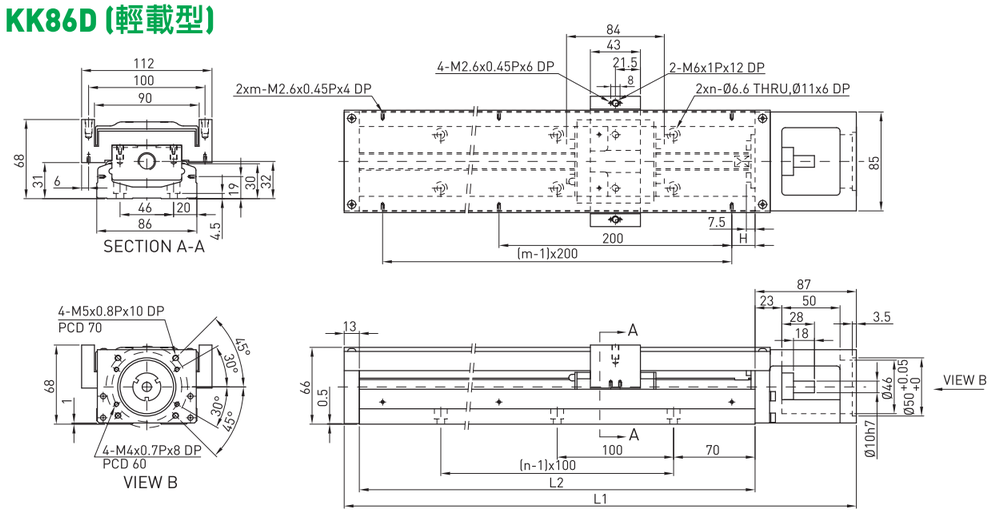
欧必帝（天津）传动科技有限公司

## KK86D (標準型)




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | H (mm) | n | m | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|
| | | A1 滑座 | A2 滑座 | | | | A1 滑座 | A2 滑座 |
| 340 | 440 | 216.5 | 108.5 | 70 | 3 | 2 | 6.5 | 7.3 |
| 440 | 540 | 316.5 | 208.5 | 20 | 4 | 3 | 7.8 | 8.6 |
| 540 | 640 | 416.5 | 308.5 | 70 | 5 | 3 | 9.0 | 9.8 |
| 640 | 740 | 516.5 | 408.5 | 20 | 6 | 4 | 10.3 | 11.3 |
| 740 | 840 | 616.5 | 508.5 | 70 | 7 | 4 | 11.6 | 12.4 |
| 940 | 1040 | 816.5 | 708.5 | 70 | 9 | 5 | 13.0 | 13.8 |

## KK86D (輕載型)




| 軌道長度 L2 (mm) | 全長 L1 (mm) | 最大行程 (mm) | | H (mm) | n | m | 重量 (kg) | |
|---|---|---|---|---|---|---|---|---|
| | | S1 滑座 | S2 滑座 | | | | S1 滑座 | S2 滑座 |
| 340 | 440 | 248.5 | 172.5 | 70 | 3 | 2 | 6.3 | 7.1 |
| 440 | 540 | 348.5 | 272.5 | 20 | 4 | 3 | 7.6 | 8.4 |
| 540 | 640 | 448.5 | 372.5 | 70 | 5 | 3 | 8.8 | 9.6 |
| 640 | 740 | 548.5 | 472.5 | 20 | 6 | 4 | 10.1 | 11.1 |
| 740 | 840 | 648.5 | 572.5 | 70 | 7 | 4 | 11.4 | 12.2 |
| 940 | 1040 | 848.5 | 772.5 | 70 | 9 | 5 | 12.8 | 13.6 |

了解更多信息请致电: 13[illegible]1742

KK86D 精密直线模组 KK86D-type precision linear module

欧必帝（天津）传动科技有限公司

# 1.8 馬達座與馬達連接法蘭

## 1.8.1 適用馬達對照表

### HIWIN 伺服馬達

| 輸出功率 | 馬達 | 重量 (Kg) | 適用法蘭 | | | | | | 附剎車 (Kg) | 驅動器 | 重量 (Kg) | 備註 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | KK40 | KK50 | KK60 | KK86 | KK100 | KK130 | | | | |
| 100W | FRAC101022 | 0.6 | F2 | F2 | F2 | F3 | - | - | - | MD-36-S | 1.25 | 220V |
| 200W | FRAC102022 | 1 | - | - | - | F0 | F0 | F1 | - | | | 220V |
| 400W | FRAC104022 | 1.45 | - | - | - | F0 | F0 | F1 | - | | | 220V |
| 750W | FRAC107522 | 2.66 | - | - | - | - | F1 | F2 | - | | | 220V |

### 三菱 Mitsubishi 伺服馬達

| 輸出功率 | 馬達 | 重量 (Kg) | 適用法蘭 | | | | | | 附剎車 (Kg) | 驅動器 | 重量 (Kg) | 備註 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | KK40 | KK50 | KK60 | KK86 | KK100 | KK130 | | | | |
| 50W | HF-KP053 | 0.35 | F1 | F1 | F1 | F2 | - | - | 0.75 | MR-J3S-10A | 0.8 | 220V |
| 100W | HF-KP13 | 0.56 | F1 | F1 | F1 | F2 | - | - | 0.89 | MR-J3S-10A | 0.8 | 220V |
| 200W | HF-KP23 | 0.94 | - | - | - | F0 | F0 | F1 | 1.6 | MR-J3S-20A | 0.8 | 220V |
| 400W | HF-KP43 | 1.5 | - | - | - | F0 | F0 | F1 | 2.1 | MR-J3S-40A | 1 | 220V |
| 750W | HF-KP73 | 2.9 | - | - | - | - | F1 | F2 | 4 | MR-J3S-70A | 1.4 | 220V |

### 松下 Panasonic 伺服馬達

| 輸出功率 | 馬達 | 重量 (Kg) | 適用法蘭 | | | | | | 附剎車 (Kg) | 驅動器 | 重量 (Kg) | 備註 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | KK40 | KK50 | KK60 | KK86 | KK100 | KK130 | | | | |
| 50W | MSMD5AZP1 | 0.32 | F2 | F2 | F2 | F3 | - | - | 0.53 | MADDT1105 | 0.8 | 110V |
| 50W | MSMD5AZP1 | 0.32 | F2 | F2 | F2 | F3 | - | - | 0.53 | MADDT1205 | 0.8 | 220V |
| 100W | MSMD011P1 | 0.47 | F2 | F2 | F2 | F3 | - | - | 0.68 | MADDT1107 | 0.8 | 110V |
| 100W | MSMD012P1 | 0.47 | F2 | F2 | F2 | F3 | - | - | 0.68 | MADDT1205 | 0.8 | 220V |
| 200W | MSMD021P1 | 0.82 | - | - | - | F1 | - | - | 1.3 | MADDT2110 | 1.1 | 110V |
| 200W | MSMD022P1 | 0.82 | - | - | - | F1 | - | - | 1.3 | MADDT1207 | 0.8 | 220V |
| 400W | MSMD041P1 | 1.2 | - | - | - | F1 | - | - | 1.7 | MADDT3120 | 1.5 | 110V |
| 400W | MSMD042P1 | 1.2 | - | - | - | F1 | - | - | 1.7 | MADDT2210 | 1.1 | 220V |
| 750W | MSMD082S1 | 2.3 | - | - | - | F4 | F2 | F4 | 3.1 | MADDT3520 | 1.5 | 220V |

### 安川伺服馬達

| 輸出功率 | 馬達 | 重量 (Kg) | 適用法蘭 | | | | | | 附剎車 (Kg) | 驅動器 | 重量 (Kg) | 備註 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | KK40 | KK50 | KK60 | KK86 | KK100 | KK130 | | | | |
| 50W | SGMAV-A5ADA61 | 0.3 | F1 | F1 | F1 | F2 | - | - | | SGDV-R70A01A | 0.9 | 有鍵 |
| 50W | SGMAV-A5ADA2C | 0.3 | F1 | F1 | F1 | F2 | - | - | | SGDV-R70A01A | 0.9 | 無鍵 |
| 50W | SGMAV-A5ADA21 | 0.3 | F1 | F1 | F1 | F2 | - | - | 0.75 | SGDV-R70A01A | 0.9 | 中慣量 |
| 100W | SGMAV-01ADA64 | 0.4 | F1 | F1 | F1 | F2 | - | - | 0.89 | SGDV-R90A01A | 0.9 | |
| 200W | SGMAV-02ADA65 | 0.9 | - | - | - | F0 | F0 | F1 | 1.6 | SGDV-1R6A01A | 0.9 | |
| 400W | SGMAV-04ADA66 | 1.2 | - | - | - | F0 | F0 | F1 | 2.1 | SGDV-2R8A01A | 1 | |
| 750W | SGMAV-08ADA67 | 2.6 | - | - | - | | F1 | F2 | 4 | SGDV-5R5A01A | 1.5 | |

直线传动

## HIWIN 步進馬達

| 系列 | 規格 | 適用法蘭 | | | | | | 重量 (Kg) | 含馬達 | 重量 (Kg) | 備註 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | KK40 | KK50 | KK60 | KK86 | KK100 | KK130 | | | | |
| ST40 | FRST011024 | F3 | F3 | F5 | - | - | - | 0.3 | STD-24A | 0.09 | 單軸心 |
| ST55 | FRST021024 | F3 | F3 | F5 | - | - | - | 0.55 | | | 單軸心 |
| | FRST022024 | | | | - | - | - | 0.8 | | | |
| | FRST023024 | | | | - | - | - | 1.18 | | | |
| | FRST121024 | F3 | F3 | F5 | - | - | - | 0.58 | | | 雙軸心 |
| | FRST122024 | | | | - | - | - | 0.83 | | | |
| | FRST123024 | | | | - | - | - | 0.21 | | | |

## 東方Oriental步進馬達

| 系列 | 規格 | 適用法蘭 | | | | | | 含馬達 | 重量 (Kg) | 含驅動器 | 重量 (Kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | KK40 | KK50 | KK60 | KK86 | KK100 | KK130 | | | | |
| CSK 2相組合 | CSK243-AP | F3 | F3 | F5 | - | - | - | PK243-01A | 0.21 | CSD2109-P | 0.12 |
| | CSK244-AP | F3 | F3 | F5 | - | - | - | PK244-01A | 0.27 | CSD2112-P | 0.12 |
| | CSK245-AP | F3 | F3 | F5 | - | - | - | PK245-01A | 0.35 | CSD2112-P | 0.12 |
| | CSK264-AP | - | - | F4 | F6 | - | - | PK264-02A | 0.45 | CSD2120-P | 0.12 |
| | CSK266-AP | - | - | F4 | F6 | - | - | PK266-02A | 0.7 | CSD2120-P | 0.12 |
| | CSK268-AP | - | - | F4 | F6 | - | - | PK268-02A | 1 | CSD2120-P | 0.12 |
| | CSK296-AP | - | - | - | - | F4 | F3 | PK296-03A | 1.7 | CSD2145P | 0.2 |
| | CSK299-AP | - | - | - | - | F4 | F3 | PK299-03A | 2.8 | CSD2145P | 0.2 |
| | CSK2913-AP | - | - | - | - | F4 | F3 | PK2913-02A | 3.8 | CSD2140P | 0.2 |
| CFKII 5相微步組合 | CFK543AP2 | F3 | F3 | F5 | - | - | - | PK543NAW | 0.21 | DFC5107P | 0.2 |
| | CFK544AP2 | F3 | F3 | F5 | - | - | - | PK544NAW | 0.27 | DFC5107P | 0.2 |
| | CFK545AP2 | F3 | F3 | F5 | - | - | - | PK545NAW | 0.35 | DFC5107P | 0.2 |
| | CFK564AP2 | - | - | - | F5 | - | - | PK564NAW | 0.6 | DFC5114P | 0.2 |
| | CFK566AP2 | - | - | - | F5 | - | - | PK566NAW | 0.8 | DFC5114P | 0.2 |
| | CFK569AP2 | - | - | - | F5 | - | - | PK569NAW | 1.3 | DFC5114P | 0.2 |
| | CFK566HAP2 | - | - | - | F5 | - | - | PK566HNAW | 0.8 | DFC5128P | 0.22 |
| | CKF569HAP2 | - | - | - | F5 | - | - | PK569HNAW | 1.3 | DFC5128P | 0.22 |
| | CFK596HAP2 | - | - | - | - | F3 | - | PK596HNAW | 1.7 | DFC5128P | 0.22 |
| | CFK599HAP2 | - | - | - | - | F3 | - | PK599HNAW | 2.8 | DFC5128P | 0.22 |
| | CFK5913HAP2 | - | - | - | - | F3 | - | PK5913HNAW | 3.8 | DFC5128P | 0.22 |
| UMK 2相組合 | UMK243A | F3 | F3 | F5 | - | - | - | PK243-01 | 0.21 | UDK2109 | 0.47 |
| | UMK244A | F3 | F3 | F5 | - | - | - | PK244-01 | 0.27 | UDK2112 | 0.47 |
| | UMK245A | F3 | F3 | F5 | - | - | - | PK245-01 | 0.35 | UDK2112 | 0.47 |
| | UMK264A | - | - | F4 | F6 | - | - | PK264-02 | 0.45 | UDK2120 | 0.47 |
| | UMK266A | - | - | F4 | F6 | - | - | PK266-02 | 0.7 | UDK2120 | 0.47 |
| | UMK268A | - | - | F4 | F6 | - | - | PK268-02 | 1 | UDK2120 | 0.47 |
| RK 5相組合 | RK543AA | F3 | F3 | F5 | - | - | - | PK543W | 0.25 | RKD507-A | 0.4 |
| | RK544AA | F3 | F3 | F5 | - | - | - | PK544W | 0.3 | RKD507-A | 0.4 |
| | RK545AA | F3 | F3 | F5 | - | - | - | PK545W | 0.4 | RKD507-A | 0.4 |
| | RK566AA | - | - | - | F5 | - | - | PK566W | 0.8 | RKD514L-A | 0.85 |
| | RK569AA | - | - | - | F5 | - | - | PK569W | 1.3 | RKD514L-A | 0.85 |
| | RK596AA | - | - | - | - | F3 | - | PK596W | 1.7 | RKD514H-A | 0.85 |
| | RK599AA | - | - | - | - | F3 | - | PK599W | 2.8 | RKD514H-A | 0.85 |
| | RK5913AA | - | - | - | - | F3 | - | PK5913W | 3.8 | RKD514H-A | 0.85 |

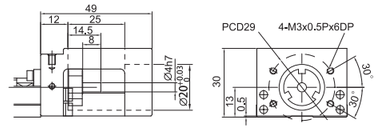
KK型 精密直线模组 KK-type precision linear module



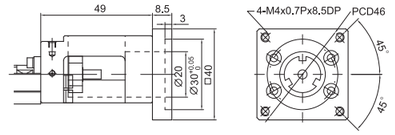
## 1.8.2 馬達座與馬達連接法蘭

### KK40

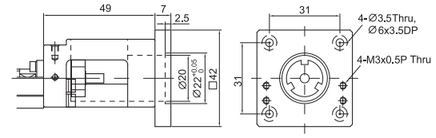
馬達座 F0



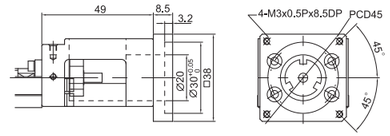

馬達連接法蘭 F1



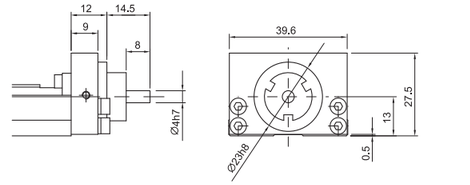

馬達連接法蘭 F3




馬達連接法蘭 F2

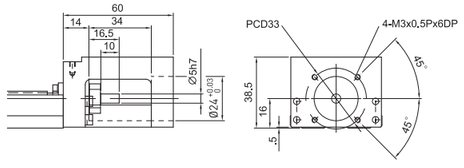



轉接固定座 H0

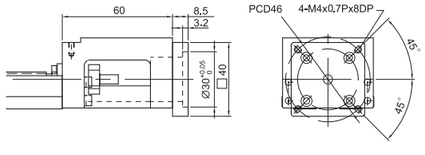



### KK50

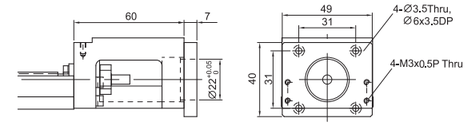
馬達座 F0



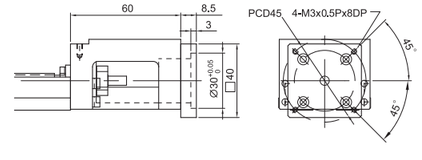

馬達連接法蘭 F1



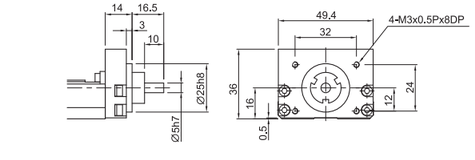

馬達連接法蘭 F3




馬達連接法蘭 F2




轉接固定座 H0

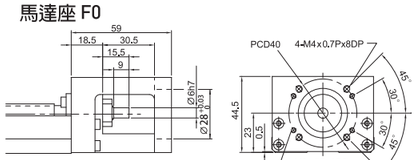


# KK60/86型 精密直线模组 KK60/86-type precision linear module

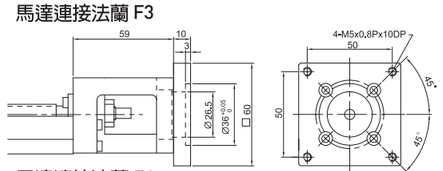
欧必帝 直线传动

## KK60

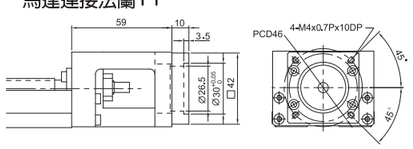
### 馬達座 F0



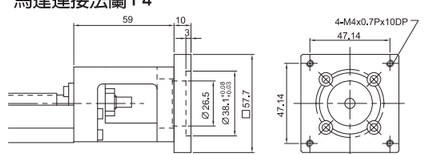

### 馬達連接法蘭 F3



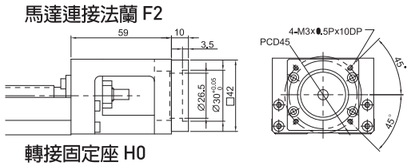

### 馬達連接法蘭 F1



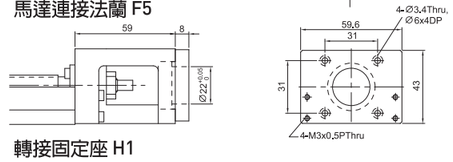

### 馬達連接法蘭 F4



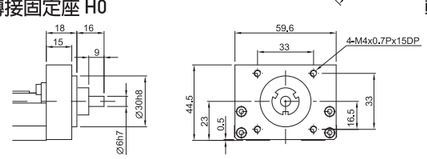

### 馬達連接法蘭 F2



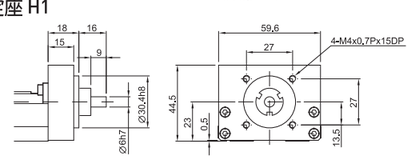

### 馬達連接法蘭 F5




### 轉接固定座 H0

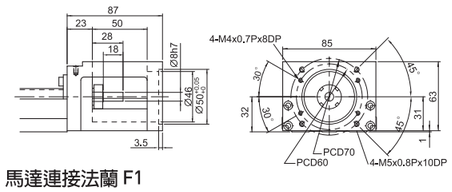



### 轉接固定座 H1

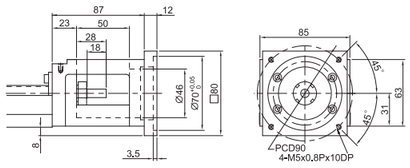



## KK86

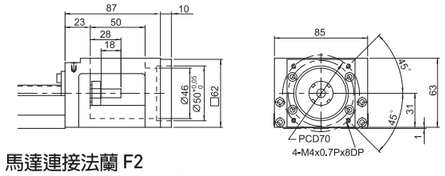
### 馬達座 F0



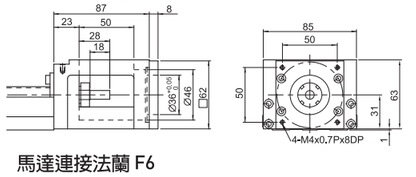

### 馬達連接法蘭 F4



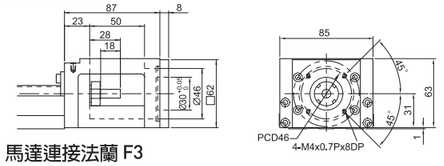

### 馬達連接法蘭 F1



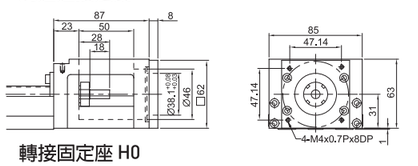

### 馬達連接法蘭 F5



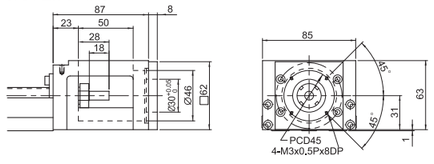

### 馬達連接法蘭 F2



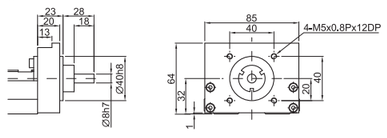

### 馬達連接法蘭 F6




### 馬達連接法蘭 F3




### 轉接固定座 H0

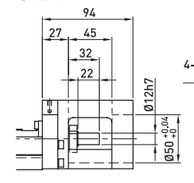


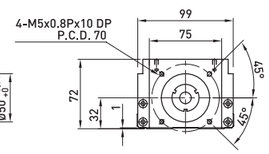

# KK100/130型 精密直线模组 KK100/130-type precision linear module

欧必帝（天津）传动科技有限公司

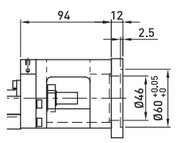
## KK100

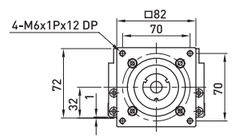
### 馬達座 F0



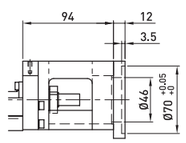



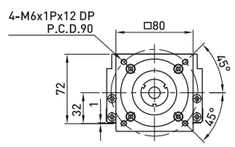

### 馬達連接法蘭 F3



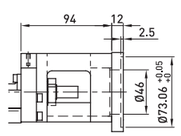



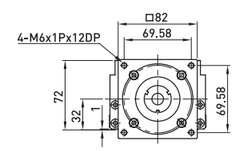

### 馬達連接法蘭 F1



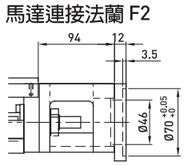



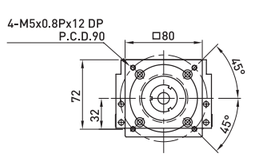

### 馬達連接法蘭 F4



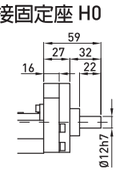



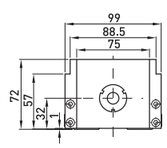

### 馬達連接法蘭 F2



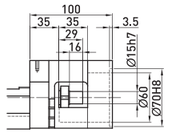

### 轉接固定座 H0

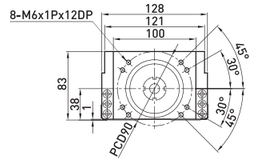


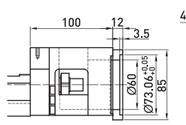

## KK130

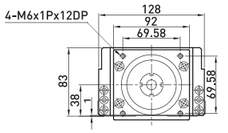
### 馬達座 F0



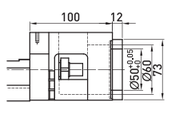



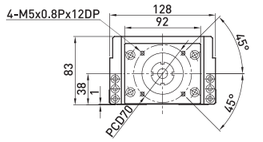

### 馬達連接法蘭 F3



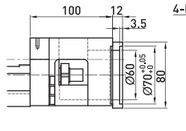



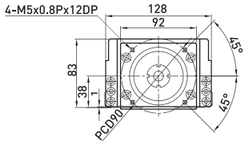

### 馬達連接法蘭 F1



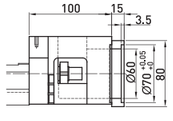



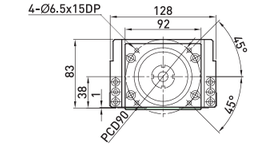

### 馬達連接法蘭 F4



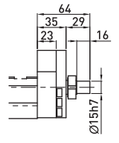



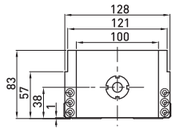

### 馬達連接法蘭 F2



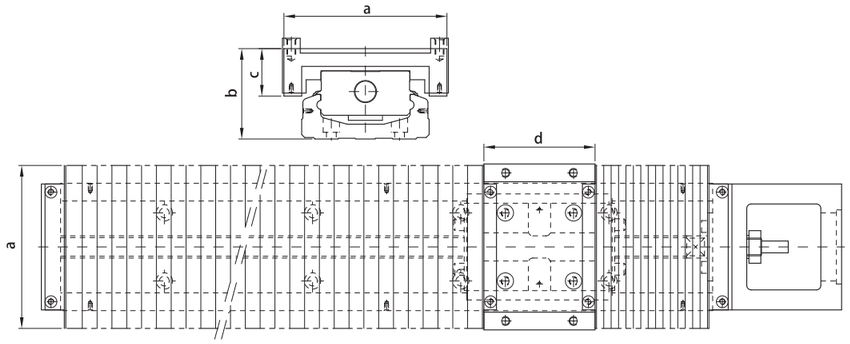




### 轉接固定座 H0



## 1.9 伸縮護套




單位：mm

| 尺寸 | 軌道長度 | 最大行程 | 最小壓縮量 | 最大伸長量 | a | b | c | d |
|---|---|---|---|---|---|---|---|---|
| KK40 | 100 | 35 | 16 | 51 | 60 | 29.5 | 19 | 33 |
| | 150 | 63 | 27 | 90 | | | | |
| | 200 | 93 | 37 | 130 | | | | |
| KK50 | 150 | 60 | 21.5 | 81.5 | 62 | 37 | 19 | 47 |
| | 200 | 95 | 29 | 124 | | | | |
| | 250 | 130 | 36.5 | 166.5 | | | | |
| | 300 | 160 | 46.5 | 206.5 | | | | |
| KK60 | 150 | 56 | 16 | 80 | 84 | 45.5 | 24 | 54 |
| | 200 | 106 | 20 | 126 | | | | |
| | 300 | 166 | 40 | 206 | | | | |
| | 400 | 234 | 56 | 290 | | | | |
| | 500 | 306 | 70 | 376 | | | | |
| | 600 | 366 | 90 | 456 | | | | |
| KK86 | 340 | 188 | 36 | 224 | 110 | 61 | 32 | 75 |
| | 440 | 260 | 50 | 310 | | | | |
| | 540 | 336 | 62 | 398 | | | | |
| | 640 | 408 | 76 | 484 | | | | |
| | 740 | 480 | 90 | 570 | | | | |
| | 940 | 640 | 110 | 750 | | | | |
| KK100 | 980 | 769 | 58 | 827 | 150 | 73 | 41 | 95 |
| | 1080 | 855 | 65 | 920 | | | | |
| | 1180 | 945 | 70 | 1015 | | | | |
| | 1280 | 1029 | 78 | 1107 | | | | |
| | 1380 | 1115 | 85 | 1200 | | | | |
| KK130 | 980 | 748 | 62 | 810 | 180 | 89 | 53 | 108 |
| | 1180 | 916 | 78 | 994 | | | | |
| | 1380 | 1084 | 94 | 1178 | | | | |
| | 1680 | 1346 | 113 | 1459 | | | | |

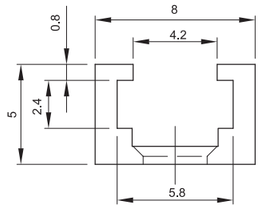
KK型 精密直线模组 KK-type precision linear module



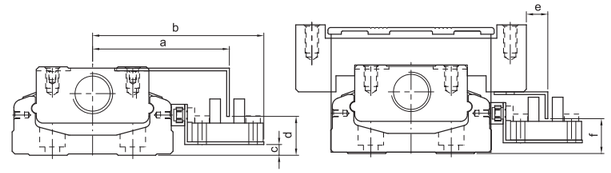
直线模组

## 1.10 極限開關

極限軌道

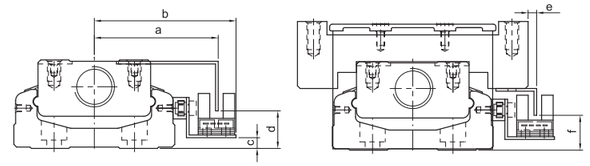



感應器



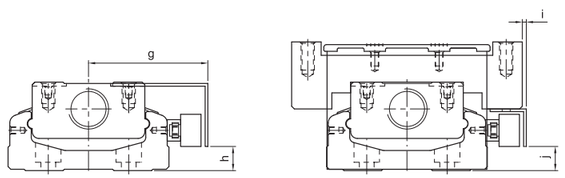

| 尺寸 | a | b | c | d | e | f |
|---|---|---|---|---|---|---|
| KK40 | 41.5 | 54.1 | 0.5 | 10.8 | 15.3 | 12 |
| KK50 | 45.5 | 59 | 1 | 10 | 15 | 11 |
| KK60 | 51 | 63.8 | 4 | 14.5 | 8 | 13 |
| KK86 | 63.5 | 76.7 | 8 | 18 | 8 | 18 |
| KK100 | 71 | 84 | 10 | 20 | 9 | 20 |
| KK130 | 85.5 | 98.5 | 14 | 24 | 0.5 | 23 |

感應器 1：Omron EE-SX671




| 尺寸 | a | b | c | d | e | f |
|---|---|---|---|---|---|---|
| KK40 | 36.5 | 44.3 | 1 | 9.8 | 10.5 | 12 |
| KK50 | 41.3 | 48 | 1 | 10.5 | 10.2 | 11 |
| KK60 | 46.2 | 52.8 | 4 | 14 | 3.2 | 13 |
| KK86 | 59 | 65.7 | 8 | 18 | 3 | 18 |
| KK100 | 66 | 73 | 10 | 20 | 4.2 | 20 |
| KK130 | 80.8 | 87.5 | 14 | 23.5 | -4.1 | 23.5 |

感應器2：Omron EE-SX674




| 尺寸 | g | h | i | j |
|---|---|---|---|---|
| KK40 | 40 | 5.5 | 13.5 | 5.5 |
| KK50 | 39.5 | 5.7 | 7 | 19.5 |
| KK60 | 44.5 | 9 | 2 | 9 |
| KK86 | 57 | 13 | 1 | 13 |
| KK100 | 64.5 | 15 | 2.5 | 15 |
| KK130 | 79 | 19 | -6 | 19 |

感應器3, 4：SUNX GX-F12A, SUNX GX-F12A-P

# 深沟球轴承 deep groove ball bearing







# 圆柱滚子轴承 cylindrical roller bearing







轴承

# 圆锥滚子轴承tapered roller bearing







# 调心滚子轴承spherical roller bearing





# 调心球轴承self-aligning ball bearing







# 四点接触球轴承 four-point contact ball bearing





# 推力球轴承 thrust ball bearing







# 外球面球轴承 insert ball bearing





# 直线轴承linear bearing







# 推力圆柱滚子轴承thrust cylindrical roller bearing



推力圆柱滚子轴承thrust cylindrical roller bearing

# 推力角接触球轴承 thrust angular contact ball bearing





双列角接触球轴承double-row angular contact ball bearing

# 双列角接触球轴承double-row angular contact ball bearing





# 滚针轴承needle roller bearing







# 关节轴承 spherical plain bearing





# 螺旋滚子轴承helical roller bearing









# 组合轴承combined bearing



