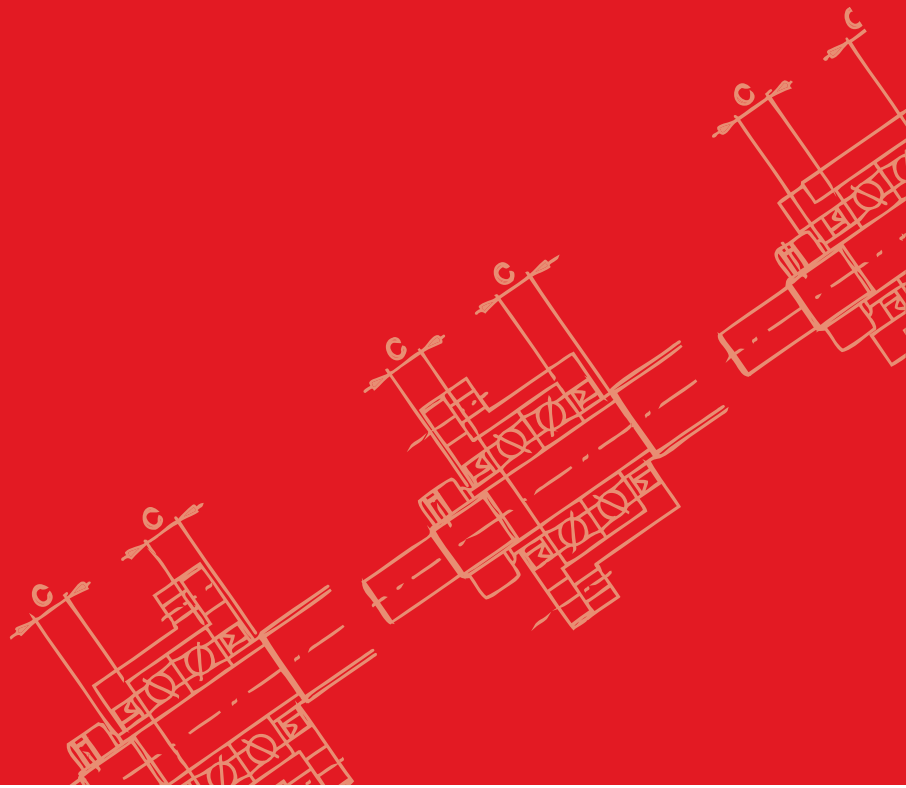


HISAKA

Product Catalogue

产品目录

Your Automation Solutions provider



HISAKA
Product Catalogue
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Your Automation Solutions provider

COMPANY PROFILE

公司簡介

ESTABLISHED IN SINGAPORE SINCE 1992, HISAKA HAS TRANSFORMED INTO A LEADING AUTOMATION SOLUTIONS PROVIDER IN THE ASIA PACIFIC REGION, SPECIALISING IN MECHANICAL MOTION PRODUCTS.

The Group's principal activities can be broadly classified into the Services and the Manufacturing segments, with Supply Chain Management forming an integral part of both. The Services segment consists of Mechanical Motion Components Management while the Manufacturing segment is made up of Metallic Precision Manufacturing and Mechatronics Integration.

Under Supply Chain Management, the Group provides customer-centric value-added services such as logistics and inventory management; administration and customer service management; as well as technical support services.

HISAKA was awarded ISO 9001:2008 certification for its quality management systems in the supply and fabrication of electromechanical parts for the semiconductor and factory automation industries, as well as in the sales, stockholding and integration solutions of electrical energy saving products and related devices.

As part of the Group's increasing prominence and proven track record in reliability and excellence over the years, HISAKA has received numerous awards and accolades annually since 2009, including "Enterprise 50", "SME 500", "Top Internationalising SME" as well as the "Singapore 1000 Public Listed Company" awards.

1992年創立於新加坡的HISAKA，如今已蛻變成亞洲領先自動化解決方案供應商並以專精機械傳動產品為主。

集團的主要業務分為服務與製造兩大部門，由供應鏈管理貫穿其中。服務部門以機械傳動零組件管理為主，製造部則涵蓋金屬精密工程製造及電機一體的整合與加工。

本集團在供應鏈管理方面，提供以客為尊的加值性服務，如物流與囤貨管理，行政與客服管理、及技術支援服務。

HISAKA的半導體與廠房自動化產業、機電零件供應及製造的品質管理系統，以及電動節能產品和相關裝置之銷售、庫存與整合解決方案，都通過ISO 9001:2008認證。

隨著HISAKA集團的知名度日增，加上多年來於業界沉穩可靠、信譽有加之出色表現，本集團自2009年起，每年均榮獲無數獎項及表彰予以肯定，包括「五十大企業」、「五百大中小型企業」、「頂尖國際化中小型企業」、以及「新加坡首一千家上市公司」等獎章。



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2. POWER TRANSMISSION 动力传输

3. BEARINGS 轴承



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Shaft Support Linear Guides

轴心支撑性直线滑轨



Structure & Usage

Shaft support linear guide consists of a linear block(s) which performs endless linear motion along the shaft.

The linear block provides threaded mounting holes that can be easily mounted on machines and equipment with bolts. Shaft support linear guides are suitable for applications that require smooth motion and accurate positioning in the direction of rotation.

The advantages of shaft support linear guides are as follows:

1. Corrosion Resistant

Made of aluminium, the linear blocks and shaft supporter undergo anodized surface finish and chrome hardening to provide a pleasing appearance, as well as superior corrosion resistance.

2. Easy Assembly

Design and assembly is made easy with the standardization of the shaft type linear guides.

3. Easily Interchangeable

Linear blocks and track rails can be purchased separately. In case of damage, customers can replace parts easily as they are freely interchangeable.

结构与及用途

轴支撑型线性导轨是线性滑块在轴上无止境直线运行的线性运动。

线性滑块提供固定螺纹孔，因此能用螺钉栓很轻易地安装在机械和设备上。

轴支撑型线性导轨适用在需要平稳的运动和旋转方向上要求精确定位等方面。

轴支撑型线性导轨的优点如下：

1. 防锈性

轴心式滑轨之滑块，轴心支撑座的材质均为耐腐蚀的铝合金，加工后表面经阳极氧化处理，轴心镀铬硬化，不仅外观赏心悦目，更具有优异的抗腐蚀性。

2. 简便组装

轴心式滑轨产品一标准化，规格化，用户设计选用不仅方便，在组装上更是简易。

3. 互换容易

滑块与滑轨可单独购买。如有损坏，客户可以容易更换零件，因为它们可以自由互换。

4. Smooth and silent operation

LGD series have well-balanced rolling contact between the carrying rollers and the shaft.

LMC series provide smooth and silent contact movement between the linear ball bearings and the shaft.

LMG series provide smooth and silent contact movement between linear bush and shaft which required no lubrication and is high temperature resistant.

5. High Efficiency

Easy assembly, lightweight, corrosion-resistant and easily interchangeable – these advantages allow for a wide range of applications for machine equipment.

6. Low Cost

The standardized structures, simple assembly and mass production of the shaft type linear guides results in lower cost. This comparatively lower cost gives it a competitive edge.

4. 运转平顺，低噪音

LGD系列有滚轮与轴心接触，可均匀滑动。

LMC系列有线性轴承与轴心滚动接触，故其运转时非常平滑和安静。

LMG系列提供线性套筒和轴心之间平稳和低噪音的接触运动，不需要润滑且能耐高温。

5. 高效率

容易组装，重量轻，耐腐蚀及互换容易—这些优势使它在机械设备的应用范围广泛。

6. 低成本

标准化的结构，简单的组装和大规模的生产使轴心式滑轨成功地降低成本，更具竞争力。

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Shaft Support Linear Guides

轴心支撑性直线滑轨



LGD

- ♦ One block with 4 rolling bearings
一个滑块含4个滚轮轴承

LGD12E

- ♦ One block with 4 rolling bearings (Economic)
一个滑块含4个滚轮轴承 - 经济型

LGD12XL

- ♦ One block with 8 rolling bearings (Heavy Load)
一个滑块含8个滚轮轴承 - 荷重型

▶ Page 12

LMC-C / LMCL-C

- ♦ Linear block: Linear ball bearings
一个滑块含4个滚轮轴承

LMG-C / LMGL-C

- ♦ Linear block: Oilless bearings
一个滑块含4个滚轮轴承 - 经济型



▶ Page 16



LMC

- ♦ Open type linear block (Linear ball bearing type)
开口型直线滑块 (线性滚珠轴承类)

LMC-L

- ♦ Open long type linear block (Linear ball bearing type)
开口加长型直线滑块 (线性滚珠轴承类)

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Shaft Support Linear Guides

轴心支撑性直线滑轨

LMG

- ♦ Open type Oilless linear block (Oilless bearing type)
开口型自润直线滑块 (自润轴承类)

LMG-L

- ♦ Open type Oilless linear block (Oilless bearing type)
开口加长型自润直线滑块 (自润轴承类)



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SFB

- ♦ Tapped case hardened shaft
外径攻牙硬化轴心

SSFB

- ♦ Tapped stainless steel case hardened shaft
外径攻牙不锈钢硬化轴心

SCFB

- ♦ Tapped case hardened chrome shaft
外径攻牙硬化铬合金轴心

SA

- ♦ Support for tapped shaft
外径攻牙硬化轴心的支撑
- ♦ Material: Aluminium Alloy
材料: 铝合金



▶ Page 25

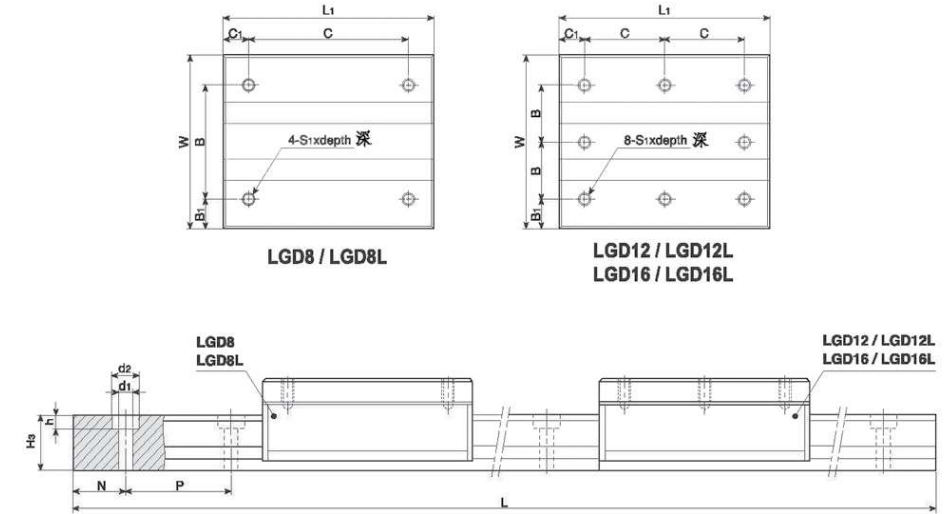
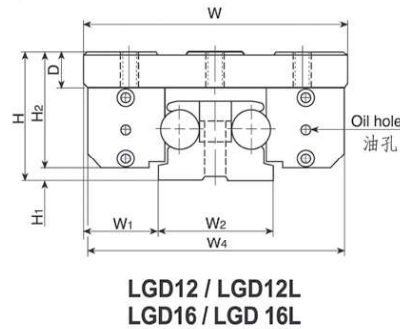
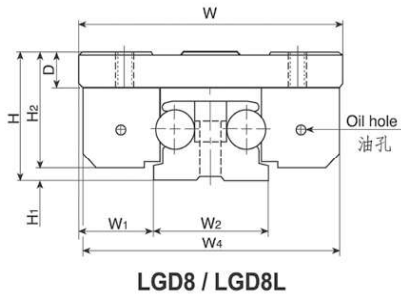
Shaft Support Linear Guides

轴心支撑性直线滑轨

Linear Motion
线性传动

Linear Motion
线性传动

◆ **LGD**
One block with 4 rolling bearings
一个滑块含4个滚轮轴承



Model No. 型号	Shaft diameter 轴径	Dimensions of assembly 组合尺寸			Dimensions of block 滑块尺寸									
		H	H ₁	W ₁	W	W ₄	H ₂	D	L ₁	B	B ₁	C	C ₁	Sixdepth
LGD8	8	30	4	16	60	59	26	9	70	40	10	50	10	M6x9
LGD8L									100			80		
LGD12	12	40	4	23	82	80	36	12	100	27	14	38	12	M6x12
LGD12L									140			58		
LGD16	16	50	5	35	120	118	45	14	150	45	15	60	15	M8x16
LGD16L									190			80		

Unit / 单位 : mm

Dimensions of track rail 轨道尺寸								Basic dynamic load rating 基本额定动载荷 C (kgf)	Basic static load rating 基本额定静载荷 Co (kgf)	Allowable static moment 容许静力矩			Model No. 型号
W ₂	H _s	d ₁	d ₂	h	P	N	L(max)			To (kgf-m)	Tx (kgf-m)	Ty (kgf-m)	
28	20	5.5	9.5	5.2	50	25	3,000	80	130	3.6	3.0	3.2	LGD8
										3.6	4.6	5.5	LGD8L
36	25	6.6	12.6	6.2	50	25	4,000	180	290	5.4	4.0	4.8	LGD12
										5.4	7.2	8.5	LGD12L
50	32	9	20	9	80	40	4,000	330	530	13.5	19.8	21.6	LGD16
										13.5	35.6	38.2	LGD16L

Example of identification number:

LGD12-B2-R1800C

① ② ③

- Model No.: LGD
- Number of blocks per track rail:
B1: 1 Block B2: 2 Blocks B3: 3 Blocks, ...
- Length of track rail (1800mm):
Shaft: Hardened (HRC62±2) ground and chromium plated

辨认型号示例

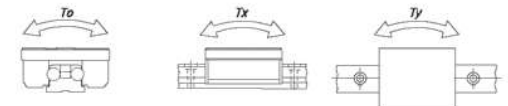
LGD12-B2-R1800C

① ② ③

① 型号: LGD

② 1支滑轨上滑块之个数:
B1: 1个、B2: 2个、B3: 3个、...

③ 滑轨长度 (1800mm):
轴心: 硬化 (HRC 62±2) 研磨和镀铬

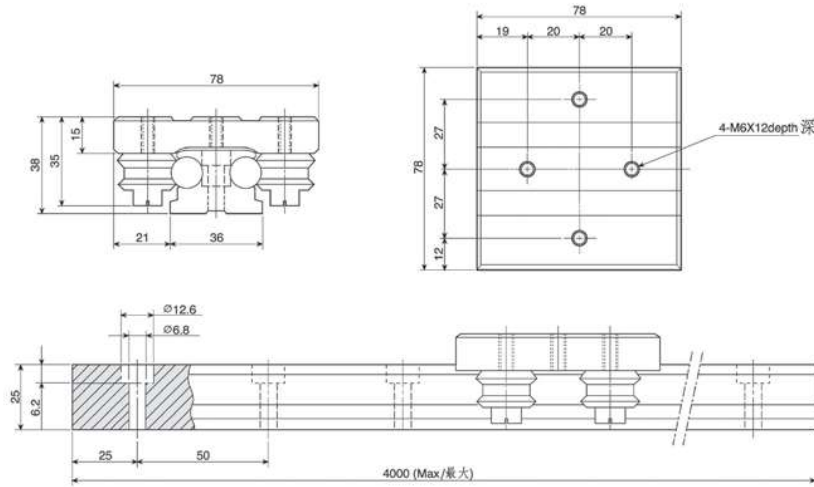


Shaft Support Linear Guides

轴心支撑性直线滑轨

◆ LGD12E

Economical Type: One block with 4 rolling bearings
经济型：一个滑块含4个滚轮轴承



辨认型号示例

LGD12E-B2-R1800C

① ② ③

① 型号: LGD12E

② 1支滑轨上滑块之数:
B1:1个、B2:2个、B3:3个、...

③ 滑轨长度(1800mm):
轴心: 硬化(HRC 62±2)研磨和镀铬

Example of identification number:

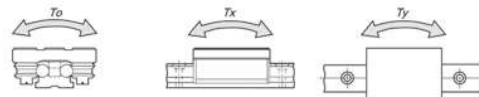
LGD12E-B2-R1800C

① ② ③

① Model No.:LGD12E

② Number of blocks per track rail:
B1: 1 Block B2: 2 Blocks B3: 3 Blocks, ...

③ Length of track rail (1800mm):
Shaft:Hardened(HRC62±2)ground and chromium plated

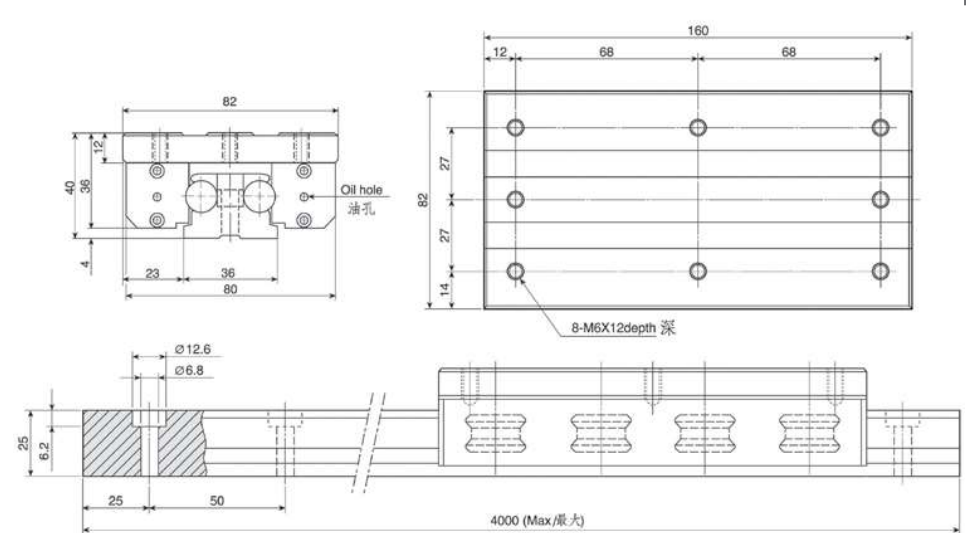


Shaft Support Linear Guides

轴心支撑性直线滑轨

◆ LGD12XL

Heavy Load Type: One block with 8 rolling bearings
荷重型：一个滑块含8个滚轮轴承



辨认型号示例

LGD12XL-B2-R1800C

① ② ③

① 型号: LGD12XL

② 1支滑轨上滑块之数:
B1:1个、B2:2个、B3:3个、...

③ 滑轨长度(1800mm):
轴心: 硬化(HRC 62±2)研磨和镀铬

Example of identification number:

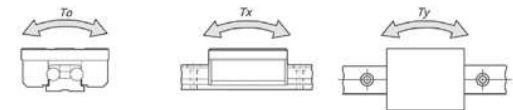
LGD12XL-B2-R1800C

① ② ③

① Model No.:LGD12XL

② Number of blocks per track rail:
B1: 1 Block B2: 2 Blocks B3: 3 Blocks, ...

③ Length of track rail (1800mm):
Shaft:Hardened(HRC62±2)ground and chromium plated



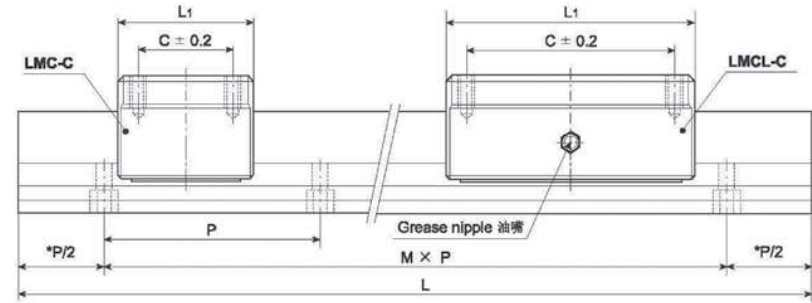
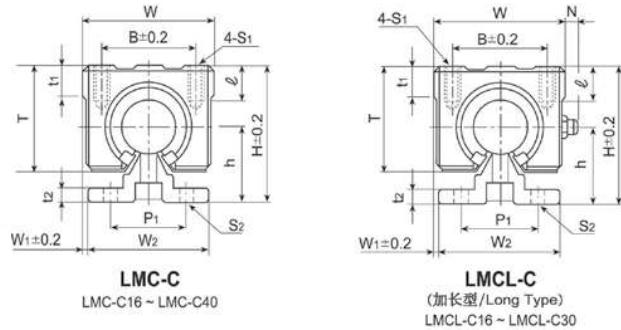
Shaft Support Linear Guides

轴心支撑性直线滑轨

Linear Motion
线性传动

Linear Motion
线性传动

◆ LMC-C / LMCL-C
Linear Block: Linear ball bearing
线性滚轮轴承



Note : * is to be changed by the length L.
注 : *随着长度L改变

Model No. 型号	Shaft diameter 轴径	Dimensions of assembly 组合尺寸				Dimensions of block 滑块尺寸							
		H	h	W ₁	W	L ₁	B	C	t ₁	ℓ	S ₁	T	N
LMC-C16	16	45	25	2.5	45	45	32	30	9	12	M5	33	—
LMCL-C16						85		60					8
LMC-C20	20	50	27	1.5	48	50	35	35	11	12	M6	39	—
LMCL-C20						96		70					8
LMC-C25	25	60	33	2.5	60	65	40	40	14	12	M6	47	—
LMCL-C25						130		100					8
LMC-C30	30	70	37	5	70	70	50	50	15	18	M8	56	—
LMCL-C30						140		110					8
LMC-C40	40	90	48	7.5	90	90	65	65	20	20	M10	72	—

Example of identification number:

LMC-C25-B2-2400

① ② ③ ④

- ① Model No: LMC-C, LMCL-C
- ② Shaft Diameter: Shaft: Hardened(HRC62±2)ground and chromium plated
- ③ Number of blocks per track rail: B1: 1 Block B2: 2 Blocks B3: 3 Blocks,...
- ④ Length of track rail: (2400mm)

Unit / 单位 : mm

Dimensions of track rail 轨道尺寸						Basic dynamic load rating 基本动定格荷重	Basic static load rating 基本静定格荷重	Model No. 型号
W ₂	P ₁	t ₂	P	S ₂	L (max)	C (kgf)	Co (kgf)	
40	30	5	150	5.5	3,600	79	120	LMC-C16
						158	240	LMCL-C16
45	30	5	150	5.5	4,200	90	140	LMC-C20
						180	280	LMCL-C20
55	35	6	200	6.5	4,200	100	160	LMC-C25
						200	320	LMCL-C25
60	40	7	200	6.5	4,200	160	280	LMC-C30
						320	560	LMCL-C30
75	55	9	300	9	4,200	220	410	LMC-C40

辨认型号示例

LMC-C25-B2-2400

① ② ③ ④

- ① 型号 : LMC-C, LMCL-C
- ② 轴径 : 轴心 : 硬化(HRC 62±2)研磨和镀硬铬
- ③ 1支滑轨上滑块之个数 : B1: 1个、B2: 2个、B3: 3个, ...
- ④ 滑轨长度 : (2400mm)

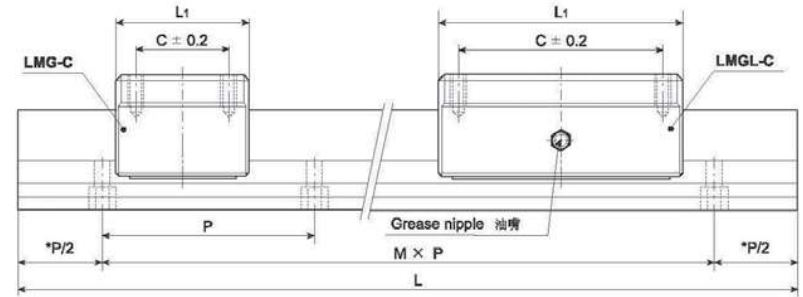
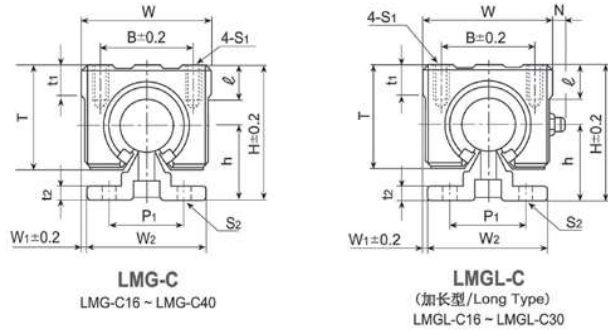
Shaft Support Linear Guides

轴心支撑性直线滑轨

Linear Motion
线性传动

Linear Motion
线性传动

◆ **LMG - C / LMGL - C**
Linear Block: Oilless bearing
滑块: 自润线性轴承



Note: * is to be changed by the length L.
注: *随着长度L改变

Model No. 型号	Shaft diameter 轴径	Dimensions of assembly 组合尺寸				Dimensions of block 滑块尺寸							
		H	h	W ₁	W	L ₁	B	C	t ₁	t ₂	S ₁	T	N
LMG-C16	16	45	25	2.5	45	45	32	30	9	12	M5	33	—
LMGL-C16						85		60					8
LMG-C20	20	50	27	1.5	48	50	35	35	11	12	M6	39	—
LMGL-C20						96		70					8
LMG-C25	25	60	33	2.5	60	65	40	40	14	12	M6	47	—
LMGL-C25						130		100					8
LMG-C30	30	70	37	5	70	70	50	50	15	18	M8	56	—
LMGL-C30						140		110					8
LMG-C40	40	90	48	7.5	90	90	65	65	20	20	M10	72	—

Unit 单位 : mm

Dimensions of track rail 轨道尺寸						Max Static Load 最大静荷载	Velocity Max (m/min) 最大速度 (m/min)		Model No. 型号
W ₂	P ₁	t ₂	P	S ₂	L (max)	Kgf / One Block kgf/1个滑块	Dry 干性	Lubrication 润滑油	
40	30	5	150	5.5	3,600	620	40	120	LMG-C16
						1,240	40	120	LMGL-C16
45	30	5	150	5.5	4,200	880	40	120	LMG-C20
						1,760	40	120	LMGL-C20
55	35	6	200	6.5	4,200	1,500	40	120	LMG-C25
						3,000	40	120	LMGL-C25
60	40	7	200	6.5	4,200	2,000	40	120	LMG-C30
						4,000	40	120	LMGL-C30
75	55	9	300	9	4,200	3,300	40	120	LMG-C40

Example of identification number:

LMG-C25-B2-2400

① ② ③ ④

- ① Model No: LMG-C, LMGL-C
- ② Shaft Diameter: Shaft: Hardened(HRC62±2)ground and chromium plated
- ③ Number of blocks per track rail: B1: 1 Block B2: 2 Blocks B3: 3 Blocks,...
- ④ Length of track rail: (2400mm)

辨认型号示例

LMG-C25-B2-2400

① ② ③ ④

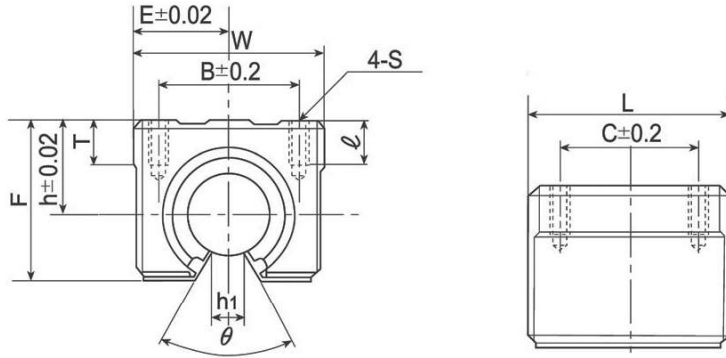
- ① 型号: LMG-C, LMGL-C
- ② 轴径: 轴心: 硬化(HRC 62±2)研磨和镀铬
- ③ 1支滑轨上滑块之个数: B1: 1个、B2: 2个、B3: 3个, ...
- ④ 滑轨长度: (2400mm)

Open Type Linear Block

开口型直线滑块

Linear Motion
线性传动

◆ **LMC**
Linear Ball Bearing Type 线性滚珠轴承



Unit / 单位 : mm

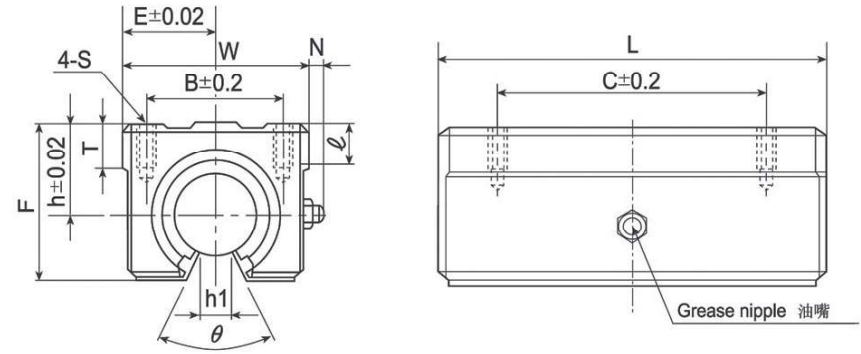
Model No. 型号	Shaft diameter 轴径	Main dimensions 主要尺寸							Mounting dimension 装配尺寸				Linear ball bearing 线性轴承			Weight 重量 g	
		h	E	W	L	F	T	h1	θ	B	C	S	φ	Linear ball bearing No. 型号	Basic dynamic load rating 基本额定动载荷 C (kgf)		Basic static load rating 基本额定静载荷 Co(kgf)
LMC16UU	16	20	22.5	45	45	33	9	10	80°	32	30	M5	12	LM16UU OP	79	120	150
LMC20UU	20	23	24	48	50	39	11	10	60°	35	35	M6	12	LM20UU OP	90	140	200
LMC25UU	25	27	30	60	65	47	14	11.5	50°	40	40	M6	12	LM25UU OP	100	160	450
LMC30UU	30	33	35	70	70	56	15	14	50°	50	50	M8	18	LM30UU OP	160	280	630
LMC40UU	40	42	45	90	90	72	20	19	50°	65	65	M10	20	LM40UU OP	220	410	1,330

Open Long Type Linear Block

开口加长型直线滑块

Linear Motion
线性传动

◆ **LMC - L**
Linear Ball Bearing Type 线性滚珠轴承



Unit / 单位 : mm

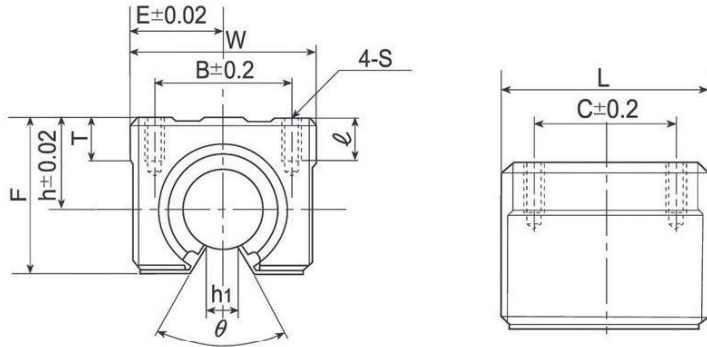
Model No. 型号	Shaft diameter 轴径	Main dimensions 主要尺寸							Mounting dimension 装配尺寸				Linear ball bearing 线性轴承			Weight 重量 g		
		h	E	W	L	F	T	N	h1	θ	B	C	S	φ	Linear ball bearing No. 型号		Basic dynamic load rating 基本额定动载荷 C (kgf)	Basic static load rating 基本额定静载荷 Co(kgf)
LMC16LUU	16	20	22.5	45	85	33	9	8	10	80°	32	60	M5	12	LM16UU OPX2	158	240	300
LMC20LUU	20	23	24	48	96	39	11	8	10	60°	35	70	M6	12	LM20UU OPX2	180	280	400
LMC25LUU	25	27	30	60	130	47	14	8	11.5	50°	40	100	M6	12	LM25UU OPX2	200	320	900
LMC30LUU	30	33	35	70	140	56	15	8	14	50°	50	110	M8	18	LM30UU OPX2	320	560	1,260

Open Type Oilless Linear Block

开口型自润直线滑块

Linear Motion
线性传动

- ◆ **LMG**
Oilless Bearing Type 自润轴承型
Temperature range / 温度范围: -100°C ~ 250°C



Unit / 单位 : mm

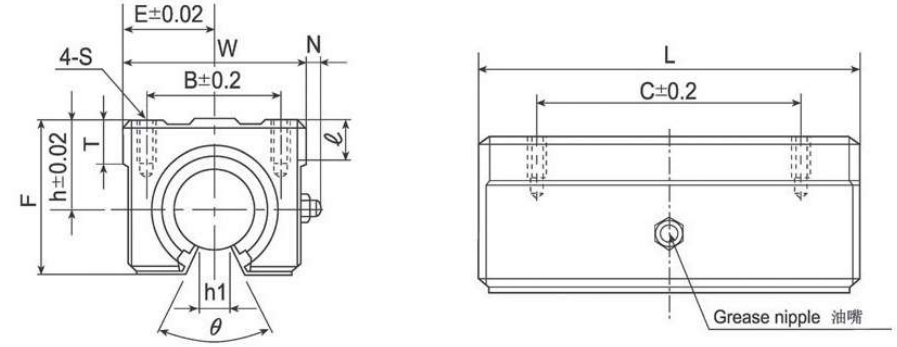
Model No. 型号	Shaft diameter 轴径	Main dimensions 主要尺寸							Mounting dimension 装配尺寸				Oilless bearing Model No. 自润轴承型号	Max. Static Load 最大荷重 kgf	Max. Speed 最大速度		Weight 重量 g	
		h	E	W	L	F	T	h1	θ	B	C	S			Q	Dry m/min 干性		Lub m/min 润滑油
LMG16	16	20	22.5	45	45	33	9	10	80°	32	30	M5	12	OB16 OP	620	40	120	115
LMG20	20	23	24	48	50	39	11	10	60°	35	35	M6	12	OB20 OP	880			160
LMG25	25	27	30	60	65	47	14	11.5	50°	40	40	M6	12	OB25 OP	1,500			340
LMG30	30	33	35	70	70	56	15	14	50°	50	50	M8	18	OB30 OP	2,000			520
LMG40	40	42	45	90	90	72	20	19	50°	65	65	M10	20	OB40 OP	3,300			1,050

Open Long Type Oilless Linear Block

开口加长型自润直线滑块

Linear Motion
线性传动

- ◆ **LMG - L**
Oilless Bearing Type 自润轴承型
Temperature range / 温度范围: -100°C ~ 250°C



Unit / 单位 : mm

Model No. 型号	Shaft diameter 轴径	Main dimensions 主要尺寸									Mounting dimension 装配尺寸				Oilless bearing Model No. 自润轴承型号	Max. Static Load 最大荷重 kgf	Max. Speed 最大速度		Weight 重量 g		
		h	E	W	L	F	T	N	h1	θ	B	C	S	Q			Dry m/min 干性	Lub m/min 润滑油			
LMG16L	16	20	22.5	45	85	33	9	8	10	80°	32	60	M5	12	OB16 OPX2	1,240	40	120	230		
LMG20L	20	23	24	48	96	39	11	8	10	60°	35	70	M6	12	OB20 OPX2	1,760			320		
LMG25L	25	27	30	60	130	47	14	8	11.5	50°	40	100	M6	12	OB25 OPX2	3,000			680		
LMG30L	30	33	35	70	140	56	15	8	14	50°	50	110	M8	18	OB30 OPX2	4,000					
																					1,040

Tapped Case Hardened Shaft

外径攻牙硬化轴心

◆ SFB / SSFB / SCFB

SFB Tapped Case Hardened Shaft
 Material : SUJ2 (high carbon chromium steel)
 Treatment : Induction hardened and ground
 Hardness : HRC 62±2

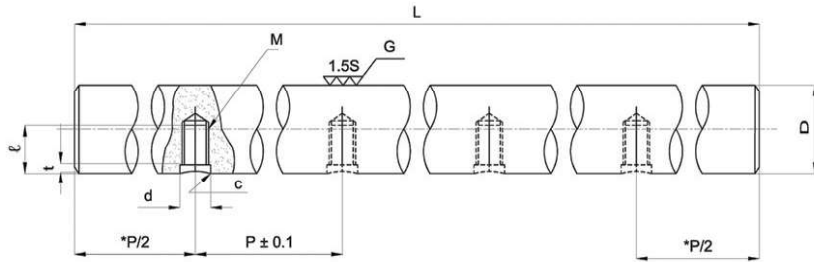
SSFB Tapped Stainless Steel Case Hardened Shaft
 Material : SUS440C (martensite stainless steel)
 Treatment : Induction hardened and ground
 Hardness : HRC 58±2

SCFB Tapped Case Hardened Chrome Shaft
 Material : SUJ2 (high carbon chromium steel)
 Treatment : Induction hardened, ground chrome plated and polished
 Hardness : HRC 62±2

SFB 外径攻牙硬化轴心
 材质 : 轴承钢 (SUJ2)
 处理方式 : 高周波热处理及研磨
 硬度 : HRC 62±2

SSFB 不锈钢外径攻牙硬化轴心
 材质 : 不锈钢 (SUS440C)
 处理方式 : 高周波热处理及研磨
 硬度 : HRC 58±2

SCFB 外径攻牙硬化铬合金轴心
 材质 : 轴承钢 (SUJ2)
 处理方式 : 高周波热处理, 研磨及表面镀铬
 硬度 : HRC 62±2



Unit/单位 : mm

Diameter 外径	Model No. 型号			Diameter Tolerance 外径公差 (g6)	Pitch 孔距	Nominal Screw 螺栓	Thread Depth 螺牙深度	Counter Bore 沉窝孔	Depth of Counter Bore 沉窝孔深	Chamfer 倒角	Max Length 最大长度	Weight 重量
	SFB	SSFB	SCFB									
16	SFB 16	SSFB 16	SCFB 16	-6 ~ -17	150	M5x0.8	9	5.5	2.5	0.7	3600	1.58
20	SFB 20	SSFB 20	SCFB 20	-7 ~ -20	150	M6x1	10	6.5	2.5	0.7	4200	2.47
25	SFB 25	SSFB 25	SCFB 25	-7 ~ -20	200	M6x1	12	6.5	2.5	0.7	4200	3.85
30	SFB 30	SSFB 30	SCFB 30	-7 ~ -20	200	M8x1.25	15	8.5	3.0	1	4200	5.55
35	SFB 35	SSFB 35	SCFB 35	-9 ~ -25	200	M8x1.25	15	8.5	3.0	1	4200	7.55
40	SFB 40	SSFB 40	SCFB 40	-9 ~ -25	300	M8x1.25	18	8.5	3.0	1	4200	9.87

Example of identification number:
 辨认型号示例

SCFB 20 x 1500

① ② ③

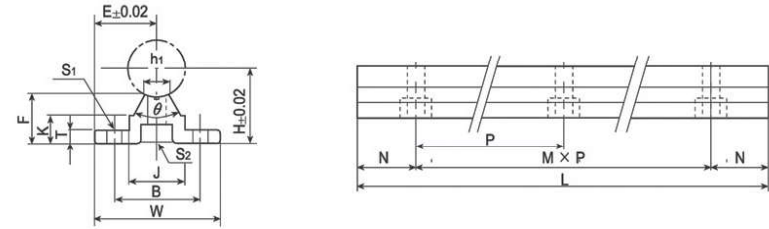
- ① Type ① 类型
- ② Shaft Diameter (mm) ② 轴心直径 (mm)
- ③ Overall length (mm) ③ 总长 (mm)

Supporter For Tapped Shaft

轴心支撑座

◆ SA

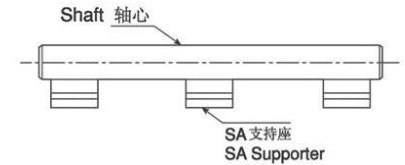
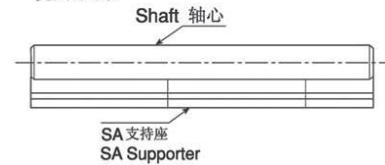
Material: Aluminium Alloy 材料: 铝合金



Unit/单位 : mm

Model No. 型号	Shaft diameter 轴径	Main dimensions 主要尺寸										Mounting dimensions 装配尺寸					Weight 重量
		H	E	W	L	F	T	K	J	h ₁	θ	B	N	M x P	S ₁	S ₂	
SA16-600	16	25	20	40	3000	17.8	5	11.7	18.5	8	80°	30	75	3x150	5.5	M5	600
SA16-1200					3000									7x150			1200
SA20-600	20	27	22.5	45	3000	17.7	5	10	19	8	50°	30	75	3X150	5.5	M6	610
SA20-1200					3000									7X150			1,220
SA25-600	25	33	27.5	55	3000	21	6	12	21.5	8	50°	35	100	2x200	6.5	M6	800
SA25-1200					3000									5X200			1,760
SA30-600	30	37	30	60	3000	22.8	7	13	26.5	10.3	50°	40	100	2X200	6.5	M8	1,100
SA30-1200					3000									5X200			2,200
SA40-600	40	48	37.5	75	3000	29.4	9	17	38	15.5	50°	55	150	1X300	9	M8	1,950
SA40-1200					3000									3X300			3,900

Usage example :
 使用示例:



Linear Slide Unit

直线滑动装置



Definition & Usage

Linear slide units mainly consist of at least a linear bush or linear block mounted onto a linear motion shaft and secured onto machine structures by shaft supporters to produce unlimited stroke linear motion with the shaft.

Bushings & blocks offer high precision and rigidity. Linear blocks are usually constructed from resin to reduce cost and weight.

Standard shaft end supports simplify the entire assembly.

In all, the use of these commercial units helps to reduce design time, as well as installation and component cost as the components are interchangeable and can be easily replaced because of the standardized dimensions.

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结构和用途

直线滑动装置主要是由至少一个直线套筒或直线滑块安装在直线运动轴上，并由轴支撑座固定在机械结构上来产生无限制的直线运动行程。

套筒和滑块提供高精度和刚性。直线滑块通常由树脂构成以减低成本和重量。

标准轴承支撑座使整个结构简单化。

总的来说，这些商业组件的使用帮我们减少了设计时间，组装和组件的成本；因为这些组件可互换而且由于标准化的尺寸，耗时替换也很容易。

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Linear Bushing

直线套管



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LM

♦ Metric dimension series used in Asia 使用于亚洲的公制规格系列

LME

♦ Metric dimension series used mainly in Europe 主要使用于欧洲的公制规格系列

LMB

♦ Inch dimension series used mainly in USA 主要使用于美国的英制规格系列

Linear Bushing - Long Type

直线套管 - 加长型



LM...L

♦ Long type series (Metric dimension)
加长系列(公制规格)

▶ Page 40

Flange Type Linear Bushing

法兰式直线套管

LMF / LMK

- ◆ Flange type series (Metric dimension)
法兰式系列 (公制规格)
- Round Flange (LMF)
圆形法兰
- Square Flange (LMK)
正方形法兰



▶ Page 42

LMF...L / LMK...L

- ◆ Flange long type (Metric dimension)
加长法兰式系列 (公制规格)
- Round Flange (LMF...L)
圆形法兰
- Square Flange (LMK...L)
正方形法兰



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Two Side Cut Flange Type Linear Bushing

切两侧法兰式直线套管

LMH

- ◆ Two side cut flange type (Metric dimension)
切两侧法兰式系列 (公制规格)

LMH...L

- ◆ Two side cut flange type (Metric dimension)
切两侧加长法兰式系列 (公制规格)



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Pilot End Type Linear Bushing

引导式直线套管

LMF-E / LMK-E

- ◆ Pilot end type (Metric dimension)
引导式系列 (公制规格)
- Round Flange (LMF-E)
圆形法兰
- Square Flange (LMK-E)
正方形法兰



▶ Page 50



▶ Page 52

LMF...L-E / LMK...L-E

- ◆ Pilot end long type (Metric dimension)
加长引导式系列 (公制规格)
- Round Flange (LMF...L-E)
圆形法兰
- Square Flange (LMK...L-E)
正方形法兰

Centered Flange Type Linear Bushing

中心法兰式直线套管

LMFC / LMKC

- ◆ Centered Flange type (Metric dimension)
中心法兰式 (公制规格)
- Round Flange (LMFC)
圆形法兰 (LMFC)
- Square Flange (LMKC)
正方形法兰 (LMKC)



▶ Page 54

Oilless Bearing

自润轴承

OB

- ◆ Oilless Bearing
自润轴承



▶ Page 56

OBK / OBF

- ◆ Flange type oilless bearing
法兰式自润轴承
 - Square Flange (OBK)
正方形法兰
 - Round Flange (OBF)
圆形法兰



▶ Page 57

Compact Type Linear Bushing

简易型直线套管

KH

- ◆ Thin wall linear bushing
稀薄墙壁直线套管



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Linear Block

直线滑块

LMA

- ◆ Standard type linear block
(Linear ball bearing type)
标准型直线滑块 (线性滚珠轴承类)

LMA...L

- ◆ Long type linear block
(Linear ball bearing type)
加长型直线滑块 (线性滚珠轴承类)



▶ Page 60

LMS

- ◆ Standard type oilless linear block
(Linear ball bearing type)
标准型自润直线滑块 (线性滚珠轴承类)

LMS...L

- ◆ Long type oilless linear block
(Linear ball bearing type)
加长型自润直线滑块 (线性滚珠轴承类)



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Shaft Supporter

轴心支撑座

SH...A

- ◆ Shaft supporter 轴心支撑座
- ◆ Material: Aluminium Alloy 材料: 铝合金

SHF...A

- ◆ Flanged Shaft supporter
法兰式轴心支撑座
- ◆ Material: Aluminium Alloy 材料: 铝合金



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Case Hardened Shaft

硬化轴心

SF

- Case hardened shaft
硬化轴心

SSF

- Case hardened stainless-steel shaft
不锈钢硬化轴心

SCF

- Case hardened chrome shaft
铬合金硬化轴心



▶ Page 67

Case Hardened Hollow Shaft

硬化空心轴心

SFT

- Case hardened hollow shaft
硬化空心轴心

SCFT

- Case hardened chrome hollow shaft
铬合金硬化空心轴心



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Linear Bushing

直线套管

STRUCTURES

Linear bushing consists of an outer cylinder, ball, balls retainer and two end rings.

The ball retainer which holds the balls in the recirculating trucks is held inside the outer cylinder by end rings.

Example of identification number:

辨认型号示例:

LMB **30** **L** **UU** **OP**
 ① ② ③ ④ ⑤

结构

线性轴承是由外筒，钢珠，钢珠保持器与两端的口环所组成。

保持器装置于外筒之内，由两扣环固定，使钢珠在轨道面重复循环而不致脱落。

Legend	Category	Code	Description
①	Type 型号	LM	Metric dimension series used in Asia 使用于亚洲的公制规格系列
		LME	Metric dimension series used in Europe 使用于欧洲的公制规格系列
		LMB	Inch dimension series used in USA 使用于美国的英制规格系列
		LMF	Round flange, metric dimension used in Asia 圆形法兰，使用于亚洲的公制规格系列
		LMK	Square flange, metric dimension used in Asia 方方法兰，使用于亚洲的公制规格系列
		LMH	Two side cut flange 切两侧法兰型
		LMFC	Centered round flange type 中心式圆形法兰
		LMKC	Centered square flange type 中心式正方形法兰
②	Inner Diameter 内径	-	Refers to the measurement in mm. 指内在的直径（毫米）
③	Length (Type) 长度（类别）	-	Standard Type 标准型
		L	Long Type 加长型
④	Seal 油封	-	No Seal 无油封
		UU	Seals on both side 两端附油封
⑤	Opening 开口	-	Standard Type 标准型
		OP	Open Type 开放型
		AJ	Clearance Adjustable Type 间隙调整型
		E	Pilot End Type 引导式(公制规格)

Metric Dimension Series Used in Asia

使用于亚洲的公制规格系列

Linear Motion
线性传动

◆ LM



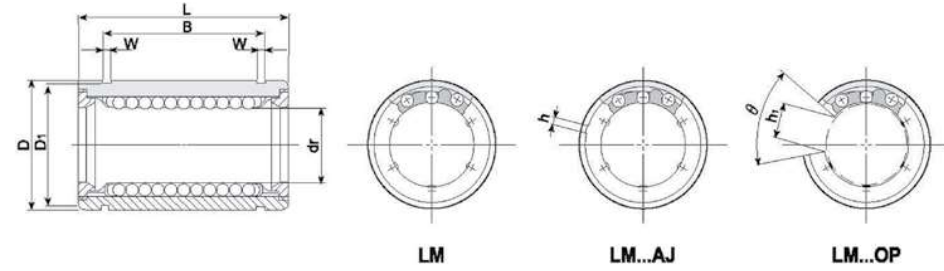
Standard type
标准型



AJ type
AJ型



OP type
OP型



Linear Motion
线性传动

Nominal shaft diameter 实际轴径 mm	Model No. 型号									dr	
	LM	Ball circuit	Weight	LM...AJ	Ball circuit	Weight	LM...OP	Ball circuit	Weight	mm	Tolerance 公差 μm
	LM...UU	钢珠 条数	重量 g	LM...UU-AJ	钢珠 条数	重量 g	LM...UU-OP	钢珠 条数	重量 g		
3	LM 3	4	1.35	—	—	—	—	—	—	3	0
4	LM 4	4	1.9	—	—	—	—	—	—	4	-8
5	LM 5	4	4	—	—	—	—	—	—	5	
6	LM 6	4	7.6	LM6AJ	4	7.5	—	—	—	6	
8	LM 8S	4	10.4	LM8SAJ	4	10	—	—	—	8	
8	LM 8U	4	15	LM8UAJ	4	14.7	—	—	—	8	
10	LM 10	4	29.5	LM10AJ	4	29	LM10OP	3	23	10	0
12	LM 12	4	31.5	LM12AJ	4	31	LM12OP	3	25	12	-9
13	LM 13	4	43	LM13AJ	4	42	LM13OP	3	34	13	
16	LM 16	4	69	LM16AJ	4	68	LM16OP	3	52	16	
20	LM 20	5	87	LM20AJ	5	85	LM20OP	4	69	20	
25	LM 25	6	220	LM25AJ	6	216	LM25OP	5	188	25	0
30	LM 30	6	250	LM30AJ	6	245	LM30OP	5	210	30	-10
35	LM 35	6	390	LM35AJ	6	384	LM35OP	5	335	35	
40	LM 40	6	585	LM40AJ	6	579	LM40OP	5	500	40	0
50	LM 50	6	1,580	LM50AJ	6	1,560	LM50OP	5	1,340	50	-12
60	LM 60	6	1,860	LM60AJ	6	1,820	LM60OP	5	1,610	60	0
80	LM 80	6	4,420	LM80AJ	6	4,300	LM80OP	5	3,650	80	-15

Main dimensions and tolerance 主要尺寸及公差											Eccentricity 偏心 μm	Radial clearance (Max) 径向间隙 μm	Basic load rating 基本定格荷重		Nominal shaft diameter 实际轴径 mm
D mm	Tolerance 公差 μm	L mm	Tolerance 公差 μm	B mm	Tolerance 公差 μm	W mm	D ₁ mm	h mm	h ₁ mm	θ			dynamic 动定格 C(kgf)	static 静定格 Co(kgf)	
7	0	10	0	—	—	—	—	—	—	—	8	7	10.7	3	
8	-9	12	-120	—	—	—	—	—	—	—	8	9	13	4	
10		15		10.2		1.1	9.6	—	—	—	-3	17	21	5	
12	0	19		13.5		1.1	11.5	1	—	—	12	21	27	6	
15	-11	17		11.5	0	1.1	14.3	1	—	—	-4	18	22	8	
15		24		17.5	-200	1.1	14.3	1	—	—	-6	28	40	8	
19		29	0	22		1.3	18	1	6.8	80°	-8	38	56	10	
21	0	30	-200	23		1.3	20	1.5	8	80°	-10	42	61	12	
23	-13	32		23		1.3	22	1.5	9	80°	-12	52	80	13	
28		37		26.5		1.6	27	1.5	11	80°	-14	79	120	16	
32	0	42		30.5		1.6	30.5	1.5	11	60°	-16	90	140	20	
40	-16	59		41	0	1.85	38	2	12	50°	-18	100	160	25	
45		64		44.5	-300	1.85	43	2.5	15	50°	-20	160	280	30	
52	0	70	0	49.5	0	2.1	49	2.5	17	50°	-22	170	320	35	
60	-19	80	-300	60.5	-300	2.1	57	3	20	50°	-24	220	410	40	
80		100		74		2.6	76.5	3	25	50°	-26	390	810	50	
90	0	110		85		3.15	86.5	3	30	50°	-28	480	1020	60	
120	-22	140	0	105.5	0	4.15	116	3	40	50°	-30	750	1630	80	

Metric Dimension Series Used Mainly in Europe

主要使用于欧洲的公制规格系列

Linear Motion
线性传动

◆ LME



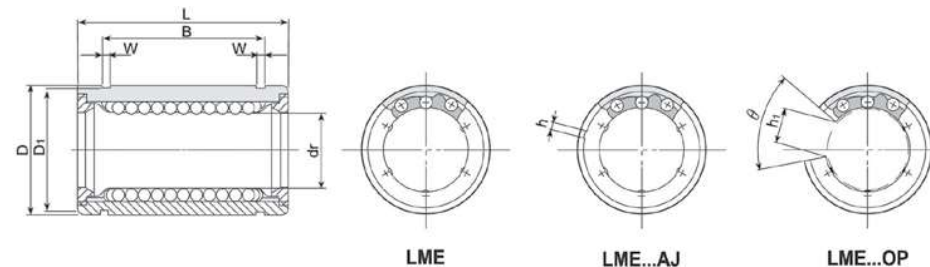
Standard type
标准型



AJ type
AJ 型



OP type
OP 型



Linear Motion
线性传动

Nominal shaft diameter 实际轴径 mm	Model No. 型号									Basic load rating 基本定格荷重	
	LME	Ball circuit	Weight	LME...AJ	Ball circuit	Weight	LME...OP	Ball circuit	Weight	static 静定格 Co(kgf)	dynamic 动定格 C(kgf)
	LME...UU	钢珠 条数	重量 g	LME...UU-AJ	钢珠 条数	重量 g	LME...UU-OP	钢珠 条数	重量 g		
5	LME 5 LME 5UU	4	11	LME5AJ LME5UU-AJ	4	10	—	—	—	27	21
8	LME 8 LME 8UU	4	20	LME8AJ LME8UU-AJ	4	19.5	—	—	—	41	27
12	LME12 LME12UU	4	41	LME12AJ LME12UU-AJ	4	40	LME12OP LME12UU-OP	3	32	79	52
16	LME16 LME16UU	4	57	LME16AJ LME16UU-AJ	4	56	LME16OP LME16UU-OP	3	44	91	59
20	LME20 LME20UU	5	91	LME20AJ LME20UU-AJ	5	90	LME20OP LME20UU-OP	4	75	140	88
25	LME25 LME25UU	6	215	LME25AJ LME25UU-AJ	6	212	LME25OP LME25UU-OP	5	181	160	100
30	LME30 LME30UU	6	325	LME30AJ LME30UU-AJ	6	320	LME30OP LME30UU-OP	5	272	280	160
40	LME40 LME40UU	6	705	LME40AJ LME40UU-AJ	6	694	LME40OP LME40UU-OP	5	600	410	220
50	LME50 LME50UU	6	1,130	LME50AJ LME50UU-AJ	6	1110	LME50OP LME50UU-OP	5	970	810	390
60	LME60 LME60UU	6	2,050	LME60AJ LME60UU-AJ	6	2000	LME60OP LME60UU-OP	5	1,580	1,000	480

Nominal shaft diameter 实际轴径 mm	Main dimensions and tolerance 主要尺寸及公差												Eccentricity 偏心 μm	Radial clearance (Max) 径向 间隙 μm	
	dr	D		L		B		W	D1	h	h1	θ			
		Tolerance 公差 μm	mm	Tolerance 公差 μm	mm	Tolerance 公差 μm	mm								
5	5		0	12		22		14.5	1.1	11.5	1	—	—	12	-3
8	8	+8	-8	16	0	25	0	16.5	1.1	15.2	1	—	—		
12	12	0		0	22	-220	32	-220	22.9	1.3	21	1.5	7.5	78°	-4
16	16	+9	-9	26		36		24.9	1.3	24.9	1.5	10	78°		
20	20	-1		32		45		31.5	1.6	30.3	2	10	60°	-6	
25	25	+11	-11	40	0	58		44.1	1.85	37.5	2	12.5	60°		15
30	30	-1		47	0	68	0	52.1	1.85	44.5	2	12.5	50°	-8	
40	40			62	-300	80	-300	60.6	2.12	59	3	16.8	50°		17
50	50	+13	-13	75		100		77.6	2.65	72	3	21	50°	-13	
60	60	-2		90	0	125	0	101.7	3.15	86.5	3	27.2	54°		20

Inch Dimension Series Used Mainly in Europe

主要使用于美国的英制规格系列

Linear Motion
线性传动

◆ LMB



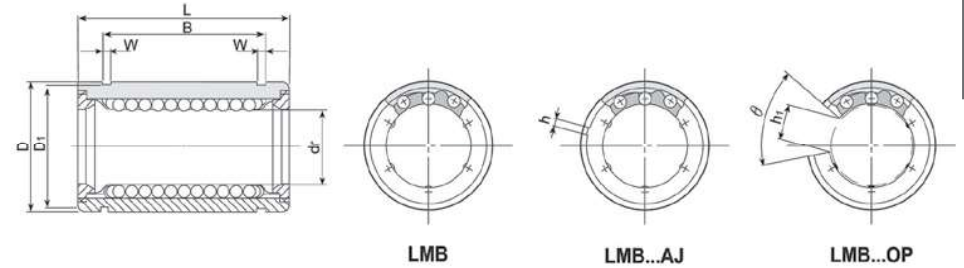
Standard type
标准型



AJ type
AJ 型



OP type
OP 型



Linear Motion
线性传动

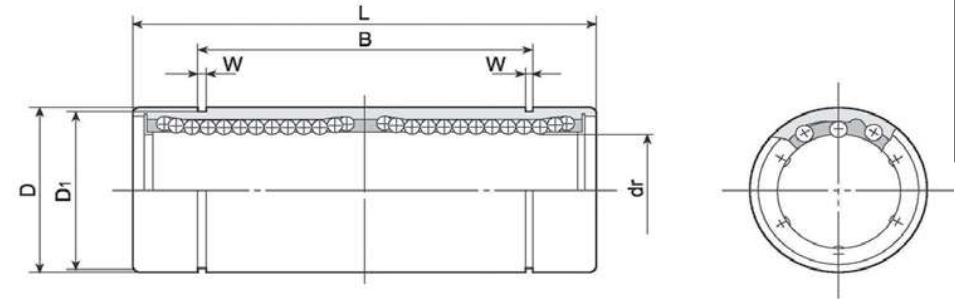
Nominal shaft diameter 实际轴径 mm	Model No. 型号									Basic load rating 基本定格荷重	
	LMB	Ball circuit	Weight	LMB...AJ	Ball circuit	Weight	LMB...OP	Ball circuit	Weight	dynamic 动定格 C(kgf)	static 静定格 Co(kgf)
	LMB...UU	钢珠 条数	g	LMB...UU-AJ	钢珠 条数	g	LMB...UU-OP	钢珠 条数	g		
6.350	LMB4 LMB4UU	4	8.0	LMB4AJ LMB4UU-AJ	4	7.5	—	—	—	21	27
9.525	LMB6 LMB6UU	4	14	LMB6SAJ LMB6SUU-AJ	4	13.5	—	—	—	23	32
12.700	LMB8 LMB8UU	4	37	LMB8AJ LMB8UU-AJ	4	36.5	LMB8OP LMB8UU-OP	3	28	52	79
15.875	LMB10 LMB10UU	4	76	LMB10AJ LMB10UU-AJ	4	74	LMB10OP LMB10UU-OP	3	57	59	120
19.050	LMB12 LMB12UU	5	95	LMB12AJ LMB12UU-AJ	5	93	LMB12OP LMB12UU-OP	4	76	88	140
25.400	LMB16 LMB16UU	6	200	LMB16AJ LMB16UU-AJ	6	198	LMB16OP LMB16UU-OP	5	170	100	160
31.750	LMB20 LMB20UU	6	440	LMB20AJ LMB20UU-AJ	6	430	LMB20OP LMB20UU-OP	5	370	160	280
38.100	LMB24 LMB24UU	6	670	LMB24AJ LMB24UU-AJ	6	660	LMB24OP LMB24UU-OP	5	570	222	410
50.800	LMB32 LMB32UU	6	1,140	LMB32AJ LMB32UU-AJ	6	1,120	LMB32OP LMB32UU-OP	5	980	390	810

Nominal shaft diameter 实际轴径 mm	Main dimensions and tolerance 主要尺寸及公差											Eccentricity 偏心 μm	Radial clearance (Max) 径向间隙 μm		
	dr Tolerance 公差 μm	D			L		B		W	D ₁	h			h ₁	θ
		mm	Tolerance 公差 μm	mm	Tolerance 公差 μm	mm	Tolerance 公差 μm								
6.350	0	6.350	12.700	0 -11	19.050	0	12.98	0	0.992	11.906	1	—	—	12	-3
		9.525	15.875	0	22.225		16.15		0.992	14.935	1	—	—		
9.525	-9	12.700	22.225	-13	31.750	-220	24.46	-220	1.168	20.853	1.5	8.700	80°	15	-4
		15.875	28.575	0	38.100		28.04		1.422	26.899	1.5	9.525	80°		
12.700	-9	19.050	31.750	0	41.275	-300	29.61	-300	1.422	29.870	1.5	11.113	60°	20	-6
		25.400	39.688	-16	57.150		44.57		1.727	37.306	1.5	11.800	50°		
15.875	-10	31.750	50.800	0	66.675	-300	50.92	-300	1.727	47.904	2.5	15.875	50°	25	-8
		38.100	60.325	-16	76.200		61.26		2.184	56.870	3	19.050	50°		
19.050	-10	50.800	76.200	0	101.600	-300	81.07	-300	2.616	72.085	3	25.400	50°	25	-13
		50.800	76.200	0	101.600		81.07		2.616	72.085	3	25.400	50°		

Long Type Series (Metric Dimension)

加长型系列(公制规格)

◆ LM...L



Nominal shaft diameter 实际轴径 mm	Model No. 型号	Ball circuit 钢珠 条数	Weight 重量 g	Main dimensions and tolerance 主要尺寸及精度			
	LM ...L			dr mm	D mm		Eccentricity 偏心 μm
	LM ...LUU				Tolerance 公差 μm	Tolerance 公差 μm	
6	LM 6 L LM 6 LUU	4	16	6	12	0	15
8	LM 8 L LM 8 LUU	4	31	8	15	-13	
10	LM 10 L LM 10 LUU	4	62	10	19	0	15
12	LM 12 L LM 12 LUU	4	80	12	21	-10	
13	LM 13 L LM 13 LUU	4	90	13	23	0	15
16	LM 16 L LM 16 LUU	4	145	16	28	-16	
20	LM 20 L LM 20 LUU	5	180	20	32	0	15
25	LM 25 L LM 25 LUU	6	440	25	40	-12	
30	LM 30 L LM 30 LUU	6	480	30	45	0	15
35	LM 35 L LM 35 LUU	6	795	35	52	-15	
40	LM 40 L LM 40 LUU	6	1,170	40	60	0	15
50	LM 50 L LM 50 LUU	6	3,100	50	80	-22	
60	LM 60 L LM 60 LUU	6	3,500	60	90	0	15
						-25	

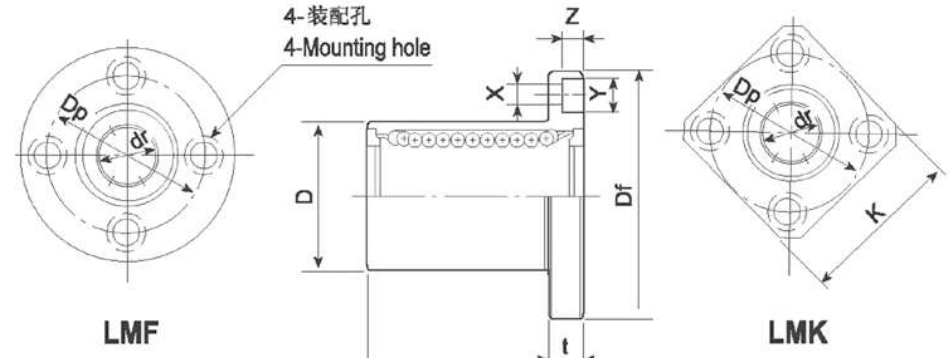
Main dimensions and tolerance 主要尺寸及公差						Eccentricity 偏心 μm	Basic load rating 基本定格荷重		Nominal shaft diameter 实际轴径 mm
mm	L	mm	B	mm	D1		dynamic 动定格 C(kgf)	static 静定格 Co(kgf)	
	Tolerance 公差 μm		Tolerance 公差 μm				Tolerance 公差 μm	Tolerance 公差 μm	
35	0	27	0	1.1	11.5	15	33	54	6
45		35		1.1	14.3		44	80	8
55		44		1.3	18		60	112	10
57		46		1.3	20		83	160	12
61		46		1.3	22		83	160	13
70	-300	53	-300	1.6	27	20	125	240	16
80		61		1.6	30.5		143	280	20
112		82		1.85	38		159	320	25
123		89		1.85	43		254	560	30
135		99		2.1	49		270	640	35
151	-400	121	-400	2.1	57	25	350	820	40
192		148		2.6	76.5		620	1,620	50
209		170		3.15	86.5		770	2,040	60

Flange Type Series (Metric Dimension)

法兰式系列(公制规格)

Linear Motion
线性传动

◆ LMK / LMF



Linear Motion
线性传动

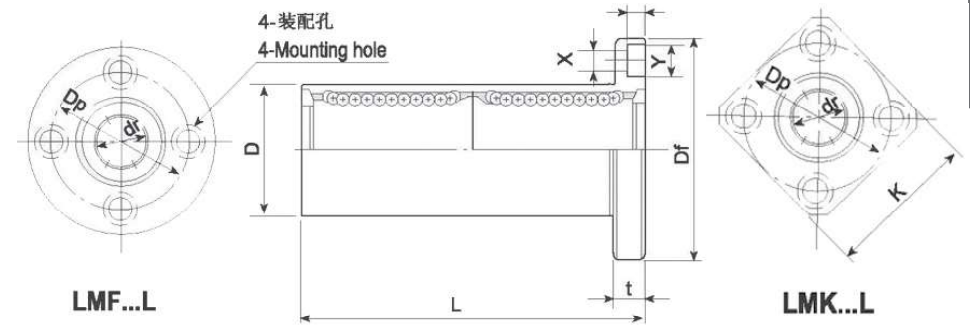
Nominal shaft diameter 实际轴径 mm	Model No. 型号			
	LMF		LMK	
6	LMF 6	LMF 6UU	LMK 6	LMK 6UU
8	LMF 8S	LMF 8SUU	LMK 8S	LMK 8SUU
8	LMF 8	LMF 8UU	LMK 8	LMK 8UU
10	LMF 10	LMF 10UU	LMK 10	LMK 10UU
12	LMF 12	LMF 12UU	LMK 12	LMK 12UU
13	LMF 13	LMF 13UU	LMK 13	LMK 13UU
16	LMF 16	LMF 16UU	LMK 16	LMK 16UU
20	LMF 20	LMF 20UU	LMK 20	LMK 20UU
25	LMF 25	LMF 25UU	LMK 25	LMK 25UU
30	LMF 30	LMF 30UU	LMK 30	LMK 30UU
35	LMF 35	LMF 35UU	LMK 35	LMK 35UU
40	LMF 40	LMF 40UU	LMK 40	LMK 40UU
50	LMF 50	LMF 50UU	LMK 50	LMK 50UU
60	LMF 60	LMF 60UU	LMK 60	LMK 60UU
80	LMF 80	LMF 80UU	LMK 80	LMK 80UU
100	LMF 100	LMF 100UU	LMK 100	LMK 100UU

Main dimensions and tolerance 主要尺寸及公差											Eccentricity 偏心 μm	Squarness 直角度 μm	Basic load rating 基本定格荷重		Weight 重量 g	Nominal shaft diameter 实际轴径 mm		
dr mm	Tolerance 公差 μm	D mm	Tolerance 公差 μm	L mm	Tolerance 公差 μm	Flange 法兰							dynamic 动定格 Co(kgf)	static 静定格 Co(kgf)				
						Df	K	t	Dp	X	Y	Z						
6		12	0	19		28	22	5	20	3.5	6	3.1	12	12	21	27	24 18	6
8		15	-11	17		32	25	5	24	3.5	6	3.1			18	22	32 24	8
8		15		24		32	25	5	24	3.5	6	3.1			28	40	37 29	8
10	0	19		29	0	40	30	6	29	4.5	7.5	4.1			38	56	72 52	10
12	-9	21	0	30	-200	42	32	6	32	4.5	7.5	4.1			52	61	76 57	12
13		23	-13	32		43	34	6	33	4.5	7.5	4.1			52	80	88 72	13
16		28		37		48	37	6	38	4.5	7.5	4.1			79	120	120 104	16
20		32	0	42		54	42	8	43	5.5	9	5.1			90	140	180 145	20
25	0	40	0	59		62	50	8	51	5.5	9	5.1	15	15	100	160	340 300	25
30	-10	45	-19	64		74	58	10	60	6.6	11	6.1			160	280	470 375	30
35		52	0	70	0	82	64	10	67	6.6	11	6.1			170	320	650 560	35
40	0	60	0	80	-300	96	75	13	78	9	14	8.1	20	20	220	410	1,060 880	40
50	-12	80	-22	100		116	92	13	98	9	14	8.1			390	810	2,200 2,000	50
60	0	90	0	110		134	106	18	112	11	17	11.1			480	1,020	3,000 2,560	60
80	-15	120	-22	140	0	164	136	18	142	11	17	11.1	25	25	750	1,630	5,800 5,300	80
100	0	150	0	175	-400	200	170	20	175	14	20	13	30	30	1,440	3,550	10,600 9,900	100

Flange Long Type Series (Metric Dimension)

加长法兰式系列(公制规格)

◆ LMF...L / LMK...L



Nominal shaft diameter 实际轴径 mm	Model No. 型号			
	LMF...L		LMK...L	
6	LMF 6L	LMF 6LUU	LMK 6L	LMK 6LUU
8	LMF 8L	LMF 8LUU	LMK 8L	LMK 8LUU
10	LMF 10L	LMF 10LUU	LMK 10L	LMK 10LUU
12	LMF 12L	LMF 12LUU	LMK 12L	LMK 12LUU
13	LMF 13L	LMF 13LUU	LMK 13L	LMK 13LUU
16	LMF 16L	LMF 16LUU	LMK 16L	LMK 16LUU
20	LMF 20L	LMF 20LUU	LMK 20L	LMK 20LUU
25	LMF 25L	LMF 25LUU	LMK 25L	LMK 25LUU
30	LMF 30L	LMF 30LUU	LMK 30L	LMK 30LUU
35	LMF 35L	LMF 35LUU	LMK 35L	LMK 35LUU
40	LMF 40L	LMF 40LUU	LMK 40L	LMK 40LUU
50	LMF 50L	LMF 50LUU	LMK 50L	LMK 50LUU
60	LMF 60L	LMF 60LUU	LMK 60L	LMK 60LUU

Main dimensions and tolerance 主要尺寸及公差											Eccentricity 偏心 μm	Squariness 直角度 μm	Basic load rating 基本额定荷重		Weight 重量 g	Nominal shaft diameter 实际轴径 mm		
dr mm	Tolerance 公差 μm	D mm	Tolerance 公差 μm	L mm	Tolerance 公差 μm	Flange 法兰							dynamic 动定格 C(kgf)	static 静定格 Co(kgf)				
						Df mm	K mm	t mm	Dp mm	X mm	Y mm	Z mm						
6		12	0	35	0	28	22	5	20	3.5	6	3.1	15	15	33	54	31 25	6
8		15	-13	45	-300	32	25	5	24	3.5	6	3.1			44	80	51 43	
10	0	19		55		40	30	6	29	4.5	7.5	4.1	60	112	98 78	12		
12	-10	21	0	57		42	32	6	32	4.5	7.5	4.1	67	122	110 90		13	
13		23	-16	61	0	43	34	6	33	4.5	7.5	4.1	83	160	130 108	16		
16		28		70	-300	48	37	6	38	4.5	7.5	4.1	125	240	190 165		20	
20		32	0	80		54	42	8	43	5.5	9	5.1	143	280	260 225	25		
25	0	40	-19	112		62	50	8	51	5.5	9	5.1	159	320	540 500		30	
30	-12	45		123		74	58	10	60	6.6	11	6.1	254	560	680 590	35		
35		52	0	135		82	64	10	67	6.6	11	6.1	270	640	1,020 930		40	
40	0	60	-22	151	0	96	75	13	78	9	14	8.1	350	820	1,570 1,380	50		
50	-15	80		192	-400	116	92	13	98	9	14	8.1	620	1,620	3,600 3,400		60	
60	0	90	-25	209		134	106	18	112	11	17	11.1	770	2,040	4,500 4,060			

Linear Motion
线性传动

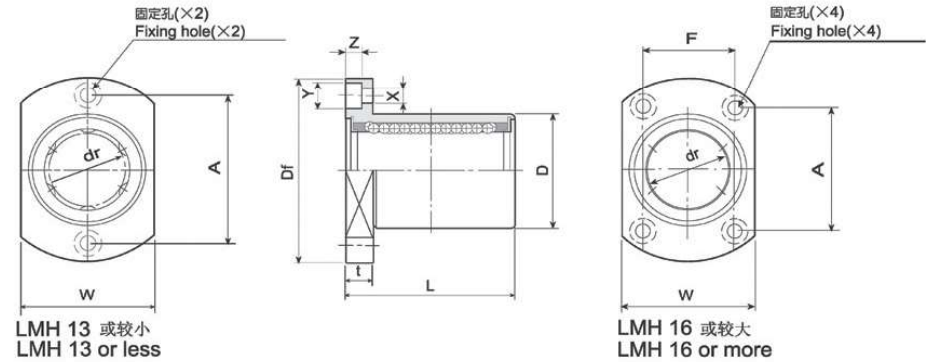
Linear Motion
线性传动

Two Side Cut Flange Type (Metric Dimension)

切两侧法兰式 (公制规格)

Linear Motion
线性传动

◆ LMH



Linear Motion
线性传动

Nominal shaft diameter 实际轴径 mm	Model No. 型号 LMH...UU	Main dimensions and tolerance 主要尺寸及精度						
		dr		D		L		
		mm	Tolerance 公差 μm	mm	Tolerance 公差 μm	mm	Tolerance 公差 μm	
6	LMH 6UU	6	0	12	0	19	-200	
8	LMH 8UU	8		15	-9	24		
10	LMH 10UU	10		19	0	29		
12	LMH 12UU	12	-9	21	0	30	0	
13	LMH 13UU	13	23	-13	32			
16	LMH 16UU	16	28	0	37	-200		
20	LMH 20UU	20	0	32	0	42	0	
25	LMH 25UU	25		40		-16		59
30	LMH 30UU	30		45		-16		64

Main dimensions and tolerance 主要尺寸及公差								Eccentricity 偏心 μm	Squarness 直角度 μm	Basic load rating 基本定格荷重		Weight 重量 g	Nominal shaft diameter 实际轴径 mm	
Flange 法兰										dynamic 动定格 C(kgf)	static 静定格 Co(kgf)			
Df mm	W mm	t mm	A mm	F mm	X mm	Y mm	Z mm							
28	18	5	20	—	3.5	6	3.1	12	12	21	27	21	6	
32	21	5	24	—	3.5	6	3.1			28	40	33		8
40	25	6	29	—	4.5	7.5	4.1			38	56	64		
42	27	6	32	—	4.5	7.5	4.1			52	80	68		
43	29	6	33	—	4.5	7.5	4.1			52	80	81		
48	34	6	31	22	4.5	7.5	4.1			79	120	112		
54	38	8	36	24	5.5	9	5.1	15	15	90	140	167	20	
62	46	8	40	32	5.5	9	5.1			100	160	325		
74	51	10	49	35	6.6	11	6.1			160	279	388		

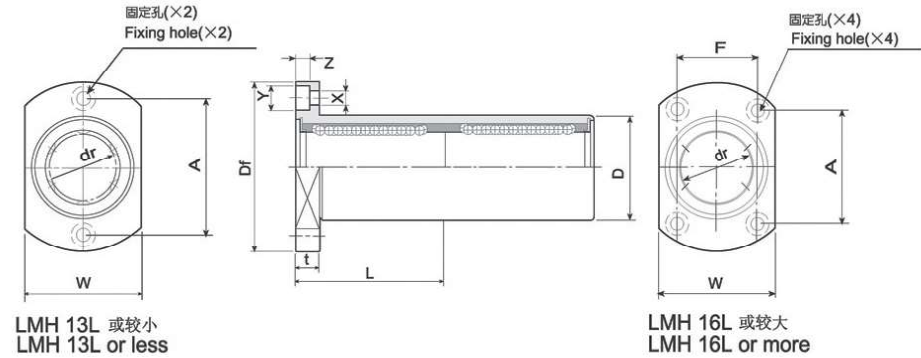
Note: All sizes of LMH type are sealed on both sides.
注解: 所有LMH类型的尺寸在两边都是被密封的。

Two Side Cut Flange Long Type Linear Bushing

切两侧加长法兰式(公制规格)

Linear Motion
线性传动

◆ LMH...L



LMH 13L 或较小
LMH 13L or less

LMH 16L 或较大
LMH 16L or more

Linear Motion
线性传动

Nominal shaft diameter 实际轴径 mm	Model No. 型号	Main dimensions and tolerance 主要尺寸及精度						
		dr		D		L		
		mm	Tolerance 公差 μm	mm	Tolerance 公差 μm	mm	Tolerance 公差 μm	
6	LMH 6LUU	6	0	12	0	35	-200	
8	LMH 8LUU	8		15	-13	45		
10	LMH 10LUU	10		19	0	55		
12	LMH 12LUU	12		21	0	57		
13	LMH 13LUU	13	-10	23	-16	61	0	
16	LMH 16LUU	16		28	0	70	-300	
20	LMH 20LUU	20	0	32	0	80	0	
25	LMH 25LUU	25		40		-19		112
30	LMH 30LUU	30		45				123

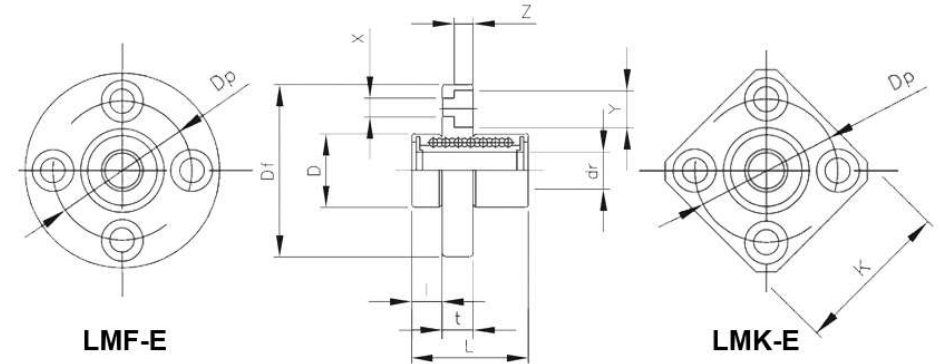
Main dimensions and tolerance 主要尺寸及公差								Eccentricity 偏心 μm	Squareness 直角度 μm	Basic load rating 基本定格荷重		Weight 重量 g	Nominal shaft diameter 实际轴径 mm
Flange 法兰										dynamic 动定格 C(kgf)	static 静定格 Co(kgf)		
Df mm	W mm	t mm	A mm	F mm	X mm	Y mm	Z mm						
28	18	5	20	—	3.5	6	3.1	15	15	33	54	28	6
32	21	5	24	—	3.5	6	3.1			44	80	47	8
40	25	6	29	—	4.5	7.5	4.1			60	112	90	10
42	27	6	32	—	4.5	7.5	4.1			83	160	102	12
43	29	6	33	—	4.5	7.5	4.1			83	160	123	13
48	34	6	31	22	4.5	7.5	4.1			125	240	182	16
54	38	8	36	24	5.5	9	5.1	20	20	143	279	247	20
62	46	8	40	32	5.5	9	5.1			159	320	525	25
74	51	10	49	35	6.6	11	6.1			254	560	645	30

Note: All sizes of LMH-L type are sealed on both sides.
注解: 所有LMH-L类型的尺寸在两边都是被密封的。

Pilot End Type (Metric Dimension)

引导式 (公制规格)

◆ LMF-E / LMK-E



Nominal shaft diameter 实际轴径 mm	Model No. 型号 LMF(K)...UU-E	Main dimensions and tolerance 主要尺寸及公差							
		dr mm	D Tolerance 公差 mm / μm		L Tolerance 公差 mm / μm	Flange 法兰			
			mm	μm		l mm	Df mm	k mm	
6	LMF6UU-E LMK6UU-E	6	12	0	19	5	28	22	
8	LMF8UU-E LMK8UU-E	8	15	-13	24	5	32	25	
10	LMF10UU-E LMK10UU-E	10	19	0	29	6	40	30	
12	LMF12UU-E LMK12UU-E	12	21	0	30	6	42	32	
13	LMF13UU-E LMK13UU-E	13	23	-16	32	6	43	34	
16	LMF16UU-E LMK16UU-E	16	28	0	37	6	48	37	
20	LMF20UU-E LMK20UU-E	20	32	0	42	8	54	42	
25	LMF25UU-E LMK25UU-E	25	40	-19	59	8	62	50	
30	LMF30UU-E LMK30UU-E	30	45	0	64	10	74	58	
35	LMF35UU-E LMK35UU-E	35	52	0	70	10	82	64	
40	LMF40UU-E LMK40UU-E	40	60	-22	80	13	96	75	
50	LMF50UU-E LMK50UU-E	50	80	0	100	13	116	92	
60	LMF60UU-E LMK60UU-E	60	90	-25	110	18	134	106	

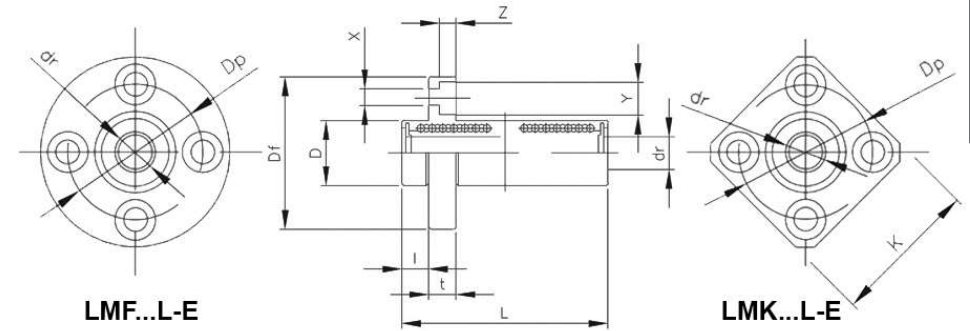
Main dimensions and tolerance 主要尺寸及公差 Flange 法兰					Eccentricity 偏心 μm	Squareness 直角度 μm	Basic load rating 基本定格荷重		Weight 重量 g	Nominal shaft diameter 实际轴径 mm
t mm	Dp mm	X mm	Y mm	Z mm			dynamic 动定格 C(kgf)	static 静定格 Co(kgf)		
5	20	3.5	6	3.1	12	12	21	27	24 18	6
5	24	3.5	6	3.1			28	40	37 29	8
6	29	4.5	7.5	4.1			38	56	72 52	10
6	32	4.5	7.5	4.1			52	80	76 57	12
6	33	4.5	7.5	4.1			52	80	88 72	13
6	38	4.5	7.5	4.1			79	120	120 104	16
8	43	5.5	9	5.1	15	15	90	140	180 145	20
8	51	5.5	9	5.1			100	160	340 300	25
10	60	6.6	11	6.1			160	279	470 375	30
10	67	6.6	11	6.1			170	320	650 560	35
13	78	9	14	8.1	20	20	220	410	1060 880	40
13	98	9	14	8.1			390	810	2200 2000	50
18	112	11	17	11.1	25	25	479	1020	3000 2560	60

Note: All sizes of LMF-E / LMK-E type are sealed on both sides.
注解: 所有LMF-E/LMK-E类型的尺寸在两边都是被密封的。

Pilot End Long Type (Metric Dimension)

加长引导式(公制规格)

◆ LMF...L-E / LMK...L-E



Nominal shaft diameter 实际轴径 mm	Model No. 型号 LMF(K)...LUU-E	Main dimensions and tolerance 主要尺寸及公差						Flange 法兰			
		dr 公差 μm	D 公差 μm		L 公差 μm	I	Df	k			
			mm	mm					mm		
6	LMF6LUU-E LMK6LUU-E	6	0 -10	12	0 -13	35	0 0	5	28	22	
8	LMF8LUU-E LMK8LUU-E	8		15		45		5	32	25	
10	LMF10LUU-E LMK10LUU-E	10		19		55		6	40	30	
12	LMF12LUU-E LMK12LUU-E	12	0 -16	21	0 -19	300	0	6	42	32	
13	LMF13LUU-E LMK13LUU-E	13		23				61	6	43	34
16	LMF16LUU-E LMK16LUU-E	16		28				70	6	48	37
20	LMF20LUU-E LMK20LUU-E	20	0 -12	32	0 -19	-400	0	8	54	42	
25	LMF25LUU-E LMK25LUU-E	25		40				112	8	62	50
30	LMF30LUU-E LMK30LUU-E	30		45				123	10	74	58
35	LMF35LUU-E LMK35LUU-E	35	0 -15	52	0 -22	-400	0	10	82	64	
40	LMF40LUU-E LMK40LUU-E	40		60				151	13	96	75
50	LMF50LUU-E LMK50LUU-E	50		80				192	13	116	92
60	LMF60LUU-E LMK60LUU-E	60	0 -20	90	0 -25	209	0	18	134	106	

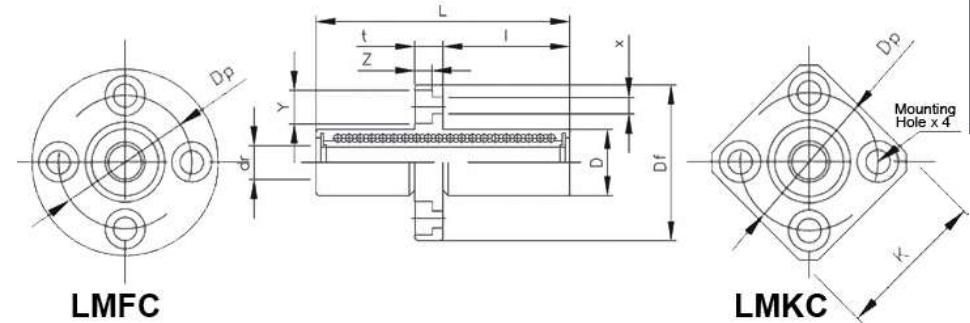
Main dimensions and tolerance 主要尺寸及公差 Flange 法兰					Eccentricity 偏心 μm	Squareness 直角度 μm	Basic load rating 基本额定荷重		Weight 重量 g	Nominal shaft diameter 实际轴径 mm
t mm	Dp mm	X mm	Y mm	Z mm			dynamic 动定荷 C(kgf)	static 静定荷 Co(kgf)		
5	20	3.5	6	3.1	15	15	33	54	31 25	6
5	24	3.5	6	3.1			44	80	51 43	8
6	29	4.5	7.5	4.1			60	112	98 78	10
6	32	4.5	7.5	4.1			83	160	110 90	12
6	33	4.5	7.5	4.1			83	160	130 108	13
6	38	4.5	7.5	4.1			125	240	190 165	16
8	43	5.5	9	5.1	20	20	143	280	260 225	20
8	51	5.5	9	5.1			159	320	540 500	25
10	60	6.6	11	6.1			254	560	680 590	30
10	67	6.6	11	6.1	25	25	270	640	1020 930	35
13	78	9	14	8.1			350	820	1570 1380	40
13	98	9	14	8.1			620	1621	3600 3400	50
18	112	11	17	11.1	30	30	770	2040	4500 4060	60

Note: All sizes of LMK-L-E / LMF-L-E type are sealed on both sides.
注解: 所有 LMK-L-E / LMF-L-E 类型的尺寸在两边都是被密封的。

Centered Flange Type (Metric Dimension)

中心法兰型 (公制规格)

◆ LMFC / LMKC



Nominal shaft diameter 实际轴径 mm	Model No. 型号 LMF(K)C	Main dimensions and tolerance 主要尺寸及公差							Flange 法兰		
		dr 公差 μm	D 公差 μm	L 公差 μm	Tolerance 公差			l mm	Df mm	k mm	
					mm	μm	μm				
6	LMFC6UU LMKC6UU	6	12	0	35	0	15	28	22		
8	LMFC8UU LMKC8UU	8					15	-13	45	20	32
10	LMFC10UU LMKC10UU	10	19	0	55	0	24.5	40	30		
12	LMFC12UU LMKC12UU	12					21	-16	57	25.5	42
13	LMFC13UU LMKC13UU	13	23	0	61	-300	27.5	43	34		
16	LMFC16UU LMKC16UU	16					28	70	32	48	37
20	LMFC20UU LMKC20UU	20	32	0	80	0	36	54	42		
25	LMFC25UU LMKC25UU	25					40	-19	112	52	62
30	LMFC30UU LMKC30UU	30	45	0	123	-400	56.5	74	58		
35	LMFC35UU LMKC35UU	35					52	135	62.5	82	64
40	LMFC40UU LMKC40UU	40	60	0	151	-400	69	96	75		
50	LMFC50UU LMKC50UU	50					80	192	89.5	116	92
60	LMFC60UU LMKC60UU	60	90	0	209	95.5	134	106			

Main dimensions and tolerance 主要尺寸及公差 Flange 法兰					Eccentricity 偏心 μm	Squareness 直角度 μm	Basic load rating 基本额定荷重		Weight 重量 g	Nominal shaft diameter 实际轴径 mm
t mm	Dp mm	X mm	Y mm	Z mm			dynamic 动定格 C(kgf)	static 静定格 Co(kgf)		
5	20	3.5	6	3.1	15	15	33	54	31 25	6
5	24	3.5	6	3.1			44	80	51 43	8
6	29	4.5	7.5	4.1			60	112	98 78	10
6	32	4.5	7.5	4.1			83	160	110 90	12
6	33	4.5	7.5	4.1			83	160	130 108	13
6	38	4.5	7.5	4.1			125	240	190 165	16
8	43	5.5	9	5.1	20	20	143	280	260 225	20
8	51	5.5	9	5.1			159	320	540 500	25
10	60	6.6	11	6.1			254	560	680 590	30
10	67	6.6	11	6.1	25	25	270	640	1020 930	35
13	78	9	14	8.1			350	820	1570 1380	40
13	98	9	14	8.1			620	1621	3600 3400	50
18	112	11	17	11.1	30	30	770	2040	4500 4060	60

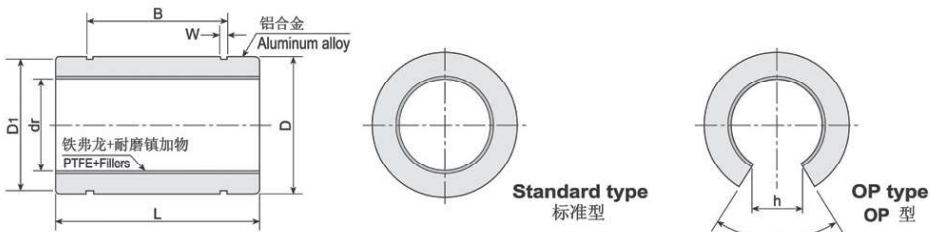
Note: All sizes of LMKC / LMFC type are sealed on both sides.
注解: 所有LMKC / LMFC类型的尺寸在两边都是被密封的。

Oilless Bearing

自润轴承

- ◆ **OB**
Construction: Internal - PTFE +Fillers
External - Aluminium Alloy

构造：内径 - 铁弗龙 + 耐磨镇加物
外径 - 铝合金



Model No. 型号	Main dimensions and tolerance 主要尺寸及公差										Max Static Load 最大荷重 kgf	Max. Speed 最大速度		Weight 重量	
	Standard Type 标准型	OP Type OP型	dr Tolerance 公差 mm μm	D Tolerance 公差 mm μm	L Tolerance 公差 mm μm	B Tolerance 公差 mm μm	W mm	D1 mm	h mm	θ		Dry 干性 m/min	Lub 润滑油 m/min	Standard Type g	Op Type g
OB6	OB6OP	6	10/28	12	0	19	13.5	1.1	11.5	—	—	120	4	3	
OB8	OB8OP	8	13/35	15	-11	24	11.5	1.1	14.3	—	—	200	8	6	
OB10	OB10OP	10	16/43	19	0	29	22	1.3	18	6.8	80°	300	15	13	
OB12	OB12OP	12	16/43	21	0	30	23	1.3	20	8	80°	370	20	15	
OB13	OB13OP	13	16/43	23	-13	32	23	1.3	22	9	80°	430	25	19	
OB16	OB16OP	16	16/43	28	0	37	26.5	1.6	27	11	80°	620	40	32	
OB20	OB20OP	20	20/53	32	0	42	30.5	1.6	30.5	11	60°	880	52	45	
OB25	OB25OP	25	20/53	40	-16	59	41	1.85	38	12	50°	1,500	120	105	
OB30	OB30OP	30	25/64	45	0	64	44.5	1.85	43	15	50°	2,000	160	130	
OB35	OB35OP	35	25/64	52	0	70	49.5	2.1	49	17	50°	2,500	220	190	
OB40	OB40OP	40	25/64	60	0	80	60.5	2.1	57	20	50°	3,300	350	250	
OB50	OB50OP	50	30/76	80	-19	100	74	2.6	76.5	25	50°	5,200	850	730	
OB60	OB60OP	60	30/76	90	0	110	85	3.15	86.5	30	50°	6,900	1,100	900	
OB80	OB80OP	80	30/76	120	-22	140	105.5	4.15	116	40	50°	11,500	2,400	2,100	
OB100	OB100OP	100	30/76	150	0	175	125.5	4.15	145	50	50°	18,000	4,700	4,000	

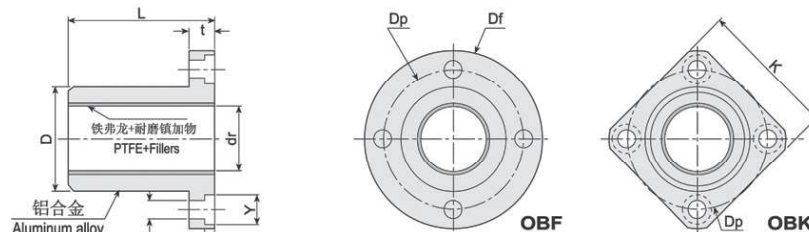
Temperature range / 温度范围 : -100~250°C
Recommended fit of the shaft tolerance / 推介轴心公差 : f7 (Ordinary clearance / 一般间隙)
: g6 (Tight clearance / 紧的间隙)

Flange Type Oilless Bearing

法兰式自润轴承

- ◆ **OBF / OBK**
Construction: Internal - PTFE +Fillers
External - Aluminium Alloy

构造：内径 - 铁弗龙 + 耐磨镇加物
外径 - 铝合金



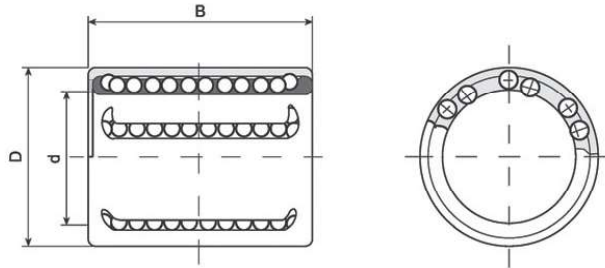
Model No. 型号	Main dimensions and tolerance 主要尺寸及公差										Eccentricity 偏心率 μm	Squares 直角度 μm	Lmax Static Load 最大荷重 kgf	Max. Speed 最大速度 m/min	Weight 重量 g	
	OBF	OBK	dr Tolerance 公差 mm μm	D Tolerance 公差 mm μm	L Tolerance 公差 mm μm	Flange 法兰										
					Df	K	t	Dp	X	Y	Z					
OBF 6	OBK 6	6	10/28	12	0	19	28	22	8	20	3.5	6	3.1	120	14	11
OBF 8	OBK 8	8	13/35	15	-11	24	32	25	8	24	3.5	6	3.1	200	21	17
OBF 10	OBK 10	10	16/43	19	0	29	40	30	9	29	4.5	7.5	4.1	300	38	29
OBF 12	OBK 12	12	16/43	21	0	30	42	32	9	32	4.5	7.5	4.1	370	42	33
OBF 13	OBK 13	13	16/43	23	-13	32	43	34	9	33	4.5	7.5	4.1	430	48	41
OBF 16	OBK 16	16	16/43	28	0	37	48	37	9	38	4.5	7.5	4.1	620	69	58
OBF 20	OBK 20	20	20/53	32	0	42	54	42	11	43	5.5	9	5.1	880	97	81
OBF 25	OBK 25	25	20/53	40	-16	59	62	50	11	51	5.5	9	5.1	1,500	174	158
OBF 30	OBK 30	30	25/64	45	0	64	74	58	14	60	6.6	11	6.1	2,000	252	216
OBF 35	OBK 35	35	25/64	52	0	70	82	64	14	67	6.6	11	6.1	2,500	338	292
OBF 40	OBK 40	40	25/64	60	0	80	96	75	18	78	9	14	8.1	3,300	547	467
OBF 50	OBK 50	50	30/76	80	-19	100	116	92	18	98	9	14	8.1	5,200	1,104	999
OBF 60	OBK 60	60	30/76	90	0	110	134	106	24	112	11	17	11.1	6,900	1,550	1,359
OBF 80	OBK 80	80	30/76	120	-22	140	164	136	24	142	11	17	11.1	11,500	3,048	2,873

Temperature range / 温度范围 : -100~250°C
Recommended fit of the shaft tolerance / 推介轴心公差 : f7 (Ordinary clearance / 一般间隙)
: g6 (Tight clearance / 紧的间隙)

Compact Type

简易型

◆ KH



Unit/单位 : mm

Nominal shaft diameter 实际轴径 mm	No Seal 无油封		Sealed type 油封型		Main dimensions 主要尺寸			Basic load rating 基本定格荷重	
	Model No. 型号	Weight 重量 g	Model No. 型号	Weight 重量 g	d	D	B	dynamic 动定格	static 静定格
								C(kgf)	Co(kgf)
6	KH0622	7	KH0622PP	7	6	12	22	9	24
8	KH0824	12	KH0824PP	12	8	15	24	11	28
10	KH1026	14	KH1026PP	14.5	10	17	26	14	37
12	KH1228	18	KH1228PP	18.5	12	19	28	18	51
14	KH1428	20.5	KH1428PP	21	14	21	28	19	52
16	KH1630	27	KH1630PP	27.5	16	24	30	24	62
20	KH2030	32.5	KH2030PP	33	20	28	30	28	79
25	KH2540	61.5	KH2540PP	63	25	35	40	65	167
30	KH3050	90	KH3050PP	92	30	40	50	100	270
40	KH4060	182	KH4060PP	184	40	52	60	170	445
50	KH5070	250	KH5070PP	255	50	62	70	235	630

Linear Block

直线滑块

STRUCTURES

A linear block consists of a linear bushing in aluminium alloy housing and secured with a snap ring.

Linear block provides a flat table surface with bolting holes to allow load to be easily secured onto the aluminium alloy housing. Linear block extends the application of the linear bushing system.

Example of identification number:

辨认型号示例:

LMA 25 L UU
① ② ③ ④

结构

直线滑块是一个由卡环扣紧的直线套筒和铝合金机架组合而成。

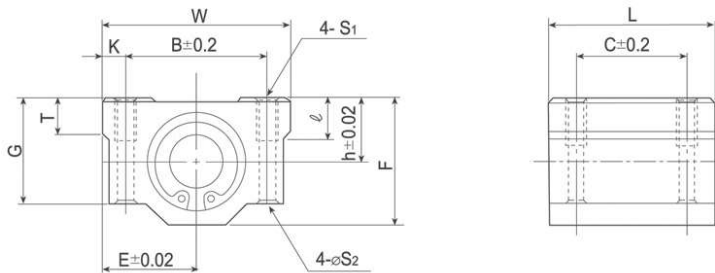
直线滑块提供了安有螺钉孔的平台表面，便于负载物安全地装置于铝合金机架之上。直线滑块延伸了直线套管系统的运用。

Legend	Category	Code	Description
①	Type 型号	LMA	Standard type linear block 标准型直线滑块
		LMS	Standard type oilless linear block 标准型自润直线滑块
②	Inner Diameter 内径	-	Refers to the measurement in mm. 指内在的直径（毫米）
③	Length (Type) 长度（类别）	-	Standard Type 标准型
		L	Long Type 加长型
④	Seal 油封	-	No Seal 无油封
		UU	Seals on both side 两端附油封

Standard Type Linear Block

标准型直线滑块

- ◆ **LMA**
Linear Ball Bearing Type 线性滚珠轴承型



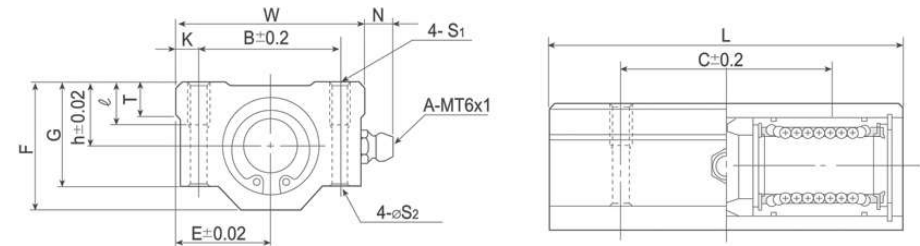
Unit / 单位 : mm

Model No. 型号	Nominal shaft diameter 实际轴径 mm	Main dimensions 主要尺寸						Mounting dimensions 装配尺寸						Linear ball bearing 线性轴承			Weight 重量 g	
		h	E	W	L	F	G	T	B	C	K	S ₁	S ₂	φ	Model No.	dynamic load		static load
															型号	动定格荷重 C(kgf)		静定格荷重 Co(kgf)
LMA 6UU	6	9	15	30	25	18	15	6	20	15	5	M4	3.4	8	LM 6UU	21	27	34
LMA 8UU	8	11	17	34	30	22	18	6	24	18	5	M4	3.4	8	LM 8UU	28	40	52
LMA10UU	10	13	20	40	35	26	21	8	28	21	6	M5	4.3	12	LM10UU	38	56	92
LMA12UU	12	15	21	42	36	28	24	8	30.5	26	5.75	M5	4.3	12	LM12UU	52	80	102
LMA13 UU	13	15	22	44	39	30	24.5	8	33	26	5.5	M5	4.3	12	LM13UU	52	80	120
LMA16 UU	16	19	25	50	44	38.5	32.5	9	36	34	7	M5	4.3	12	LM16UU	79	120	200
LMA20 UU	20	21	27	54	50	41	35	11	40	40	7	M6	5.2	12	LM20UU	90	140	255
LMA25 UU	25	26	38	76	67	51.5	42	12	54	50	11	M8	7	18	LM25UU	100	160	600
LMA30 UU	30	30	39	78	72	59.5	49	15	58	58	10	M8	7	18	LM30UU	160	280	735
LMA35 UU	35	34	45	90	80	68	54	18	70	60	10	M8	7	18	LM35UU	170	320	1,100
LMA40 UU	40	40	51	102	90	78	62	20	80	60	11	M10	8.7	25	LM40UU	220	410	1,580
LMA50 UU	50	52	61	122	110	102	80	25	100	80	11	M10	8.7	25	LM50UU	390	810	3,340
LMA60 UU	60	58	66	132	122	114	94	30	108	90	12	M12	10.7	25	LM60UU	482	1,020	4,270

Long Type Linear Block

加长型直线滑块

- ◆ **LMA...L**
Linear Ball Bearing Type 线性滚珠轴承型



Unit / 单位 : mm

Model No. 型号	Nominal shaft diameter 轴径 mm	Main dimensions 主要尺寸						Mounting dimensions 装配尺寸						Linear ball bearing 线性轴承			Weight 重量 g		
		h	E	W	L	F	G	T	N	B	C	K	S ₁	S ₂	φ	Model No.		dynamic load	static load
																型号		动定格荷重 C(kgf)	静定格荷重 Co(kgf)
LMA 6LUU	6	9	15	30	48	18	15	6	7	20	36	5	M4	3.4	8	LM6UX2	33	54	63
LMA 8LUU	8	11	17	34	58	22	18	6	7	24	42	5	M4	3.4	8	LM8UX2	44	80	102
LMA10LUU	10	13	20	40	68	26	21	8	7	28	46	6	M5	4.3	12	LM10UX2	60	112	180
LMA12LUU	12	15	21	42	70	28	24	8	6.5	30.5	50	5.75	M5	4.3	12	LM12UX2	67	120	205
LMA13LUU	13	15	22	44	75	30	24.5	8	6.5	33	50	5.5	M5	4.3	12	LM13UX2	83	160	240
LMA16LUU	16	19	25	50	85	38.5	32.5	9	6	36	60	7	M5	4.3	12	LM16UX2	125	240	400
LMA20LUU	20	21	27	54	96	41	35	11	7	40	70	7	M6	5.2	12	LM20UX2	144	280	570
LMA25LUU	25	26	38	76	130	51.5	42	12	4	54	100	11	M8	7	18	LM25UX2	164	320	1,200
LMA30LUU	30	30	39	78	140	59.5	49	15	5	58	110	10	M8	7	18	LM30UX2	250	560	1,480
LMA35LUU	35	34	45	90	155	68	54	18	5.5	70	120	10	M8	7	18	LM35UX2	270	640	2,200
LMA40LUU	40	40	51	102	175	78	62	20	5	80	140	11	M10	8.7	25	LM40UX2	350	820	3,200
LMA50LUU	50	52	61	122	215	102	80	25	5	100	160	11	M10	8.7	25	LM50UX2	620	1,620	6,700
LMA60LUU	60	58	66	132	240	114	94	30	5	108	180	12	M12	10.7	25	LM60UX2	770	2,040	8,560

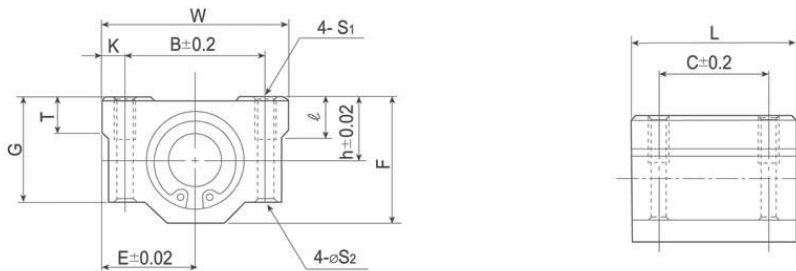
Linear Motion
线性传动

Linear Motion
线性传动

Standard Type Oilless Linear Block

标准型自润直线滑块

- ◆ LMS Oilless Bearing Type 自润轴承型



Unit / 单位 : mm

Model No. 型号	Nominal shaft diameter 实际轴径 mm	Main dimensions 主要尺寸						Mounting dimensions 装配尺寸						Oilless bearing Model No. 自润轴承型号	Max Static Load 最大荷重 (kgf)	Max. Speed 最大速度		Weight 重量 g	
		h	E	W	L	F	G	T	B	C	K	S ₁	S ₂			Ø	Dry m/min 干性		Lub m/min 润滑油
LMS 6	6	9	15	30	25	18	15	6	20	15	5	M4	3.4	8	OB 6	120		30	
LMS 8	8	11	17	34	30	22	18	6	24	18	5	M4	3.4	8	OB 8	200		45	
LMS10	10	13	20	40	35	26	21	8	28	21	6	M5	4.3	12	OB 10	300		85	
LMS12	12	15	21	42	36	28	24	8	30.5	26	5.75	M5	4.3	12	OB 12	370		90	
LMS13	13	15	22	44	39	30	24.5	8	33	26	5.5	M5	4.3	12	OB 13	430		102	
LMS16	16	19	25	50	44	38.5	32.5	9	36	34	7	M5	4.3	12	OB 16	620		170	
LMS20	20	21	27	54	50	41	35	11	40	40	7	M6	5.2	12	OB 20	880	40	120	220
LMS25	25	26	38	76	67	51.5	42	12	54	50	11	M8	7	18	OB 25	1,500		500	
LMS30	30	30	39	78	72	59.5	49	15	58	58	10	M8	7	18	OB 30	2,000		645	
LMS35	35	34	45	90	80	68	54	18	70	60	10	M8	7	18	OB 35	2,500		930	
LMS40	40	40	51	102	90	78	62	20	80	60	11	M10	8.7	25	OB 40	3,300		1,355	
LMS50	50	52	61	122	110	102	80	25	100	80	11	M10	8.7	25	OB 50	5,200		2,610	
LMS60	60	58	66	132	122	114	94	30	108	90	12	M12	10.7	25	OB 60	6,900		3,510	

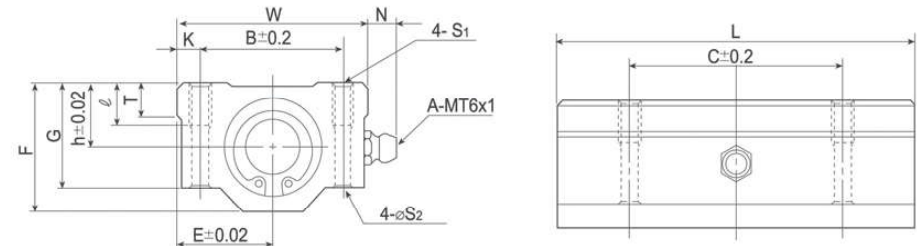
Temperature range / 温度范围 : -100~250°C

Recommended fit of the shaft tolerance / 推荐轴心公差 : f7 (Ordinary clearance / 一般间隙)
: g6 (Tight clearance / 紧的间隙)

Long Type Oilless Linear Block

加长型自润直线滑块

- ◆ LMS...L Oilless Bearing Type 自润轴承型



Unit / 单位 : mm

Model No. 型号	Nominal shaft diameter 实际轴径 mm	Main dimensions 主要尺寸						Mounting dimensions 装配尺寸						Oilless bearing Model No. 自润轴承型号	Max Static Load 最大荷重 (kgf)	Max. Speed 最大速度		Weight 重量 g		
		h	E	W	L	F	G	T	N	B	C	K	S ₁			S ₂	Ø		Dry m/min 干性	Lub m/min 润滑油
LMS 6L	6	9	15	30	48	18	15	6	7	20	36	5	M4	3.4	8	OB6X2	240		63	
LMS 8L	8	11	17	34	58	22	18	6	7	24	42	5	M4	3.4	8	OB8X2	400		102	
LMS10L	10	13	20	40	68	26	21	8	7	28	46	6	M5	4.3	12	OB10X2	600		180	
LMS12L	12	15	21	42	70	28	24	8	6.5	30.5	50	5.75	M5	4.3	12	OB12X2	740		205	
LMS13L	13	15	22	44	75	30	24.5	8	6.5	33	50	5.5	M5	4.3	12	OB13X2	860		240	
LMS16L	16	19	25	50	85	38.5	32.5	9	6	36	60	7	M5	4.3	12	OB16X2	1,240		400	
LMS20L	20	21	27	54	96	41	35	11	7	40	70	7	M6	5.2	12	OB20X2	1,760	40	120	570
LMS25L	25	26	38	76	130	51.5	42	12	4	54	100	11	M8	7	18	OB25X2	3,000		1,200	
LMS30L	30	30	39	78	140	59.5	49	15	5	58	110	10	M8	7	18	OB30X2	4,000		1,480	
LMS35L	35	34	45	90	155	68	54	18	5.5	70	120	10	M8	7	18	OB35X2	5,000		2,200	
LMS40L	40	40	51	102	175	78	62	20	5	80	140	11	M10	8.7	25	OB40X2	6,600		3,200	
LMS50L	50	52	61	122	215	102	80	25	5	100	160	11	M10	8.7	25	OB50X2	10,400		6,700	
LMS60L	60	58	66	132	240	114	94	30	5	108	180	12	M12	10.7	25	OB60X2	13,800		8,560	

Temperature range / 温度范围 : -100~250°C

Recommended fit of the shaft tolerance / 推荐轴心公差 : f7 (Ordinary clearance / 一般间隙)
: g6 (Tight clearance / 紧的间隙)

Shaft & Shaft Supporter

轴心和轴心支撑座

Linear Motion
线性传动

Shaft

A shaft can be broadly defined as a revolving rod that transmits power or motion. It is often used with linear bushing or bearings in order to obtain highly accurate linear motion.

The quality and accuracy of the shaft has a direct impact on the performance of the linear bush and bearing.

Example of identification number:
辨认型号示例:

SSF **20** x **1000L**
① ② ③

Legend	
①	Type 型号
②	Shaft Diameter (mm) 轴心直径
③	Overall length (mm) 总长度

Shaft Supporter

Made of aluminum alloy, the shaft supporters are light and durable. Their compact design allows for a wide variety of applications and ease of installation.

Example of identification number:
辨认型号示例:

SH **20** **A**
① ② ③

Legend	Category	Code	Description
①	Type 型号	SH	Shaft Supporter 轴心支撑座
		SHF	Flanged Shaft Supporter 法兰型轴心支撑座
②	Nominal Shaft Diameter (mm) 实际内径		
③	Material 材质	A	Aluminum Alloy 铝合金

轴心

轴心被广泛的定义为传送动力或运动的旋转杆。它通常和直线套管或轴承结合使用，以此来获得高精度的直线性运动。

轴心的质量和精确度对直线套观和轴承的性能有直接的影响。

轴心支撑座

支撑座是由铝合金制成的，因此轻巧和耐用。简易的设计具有广泛的应用并且安装简便。

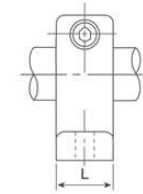
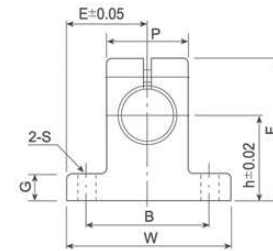
Shaft Supporter

轴心支撑座

Linear Motion
线性传动

◆ SH...A

Material: Aluminium Alloy 材质: 铝合金

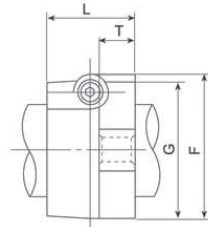
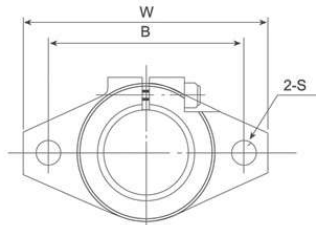


Model No. 型号	Nominal shaft diameter 实际轴径	Main dimensions 主要尺寸									Clamping bolt 固定螺栓	Mounting bolt 装配螺栓	Weight 重量 g
		h	E	W	L	F	G	P	B	S			
SH 8A	8	20	21	42	14	32.8	6	18	32	5.5	M4	M5	24
SH10A	10	20	21	42	14	32.8	6	18	32	5.5	M4	M5	24
SH12A	12	23	21	42	14	37.5	6	20	32	5.5	M4	M5	30
SH13A	13	23	21	42	14	37.5	6	20	32	5.5	M4	M5	30
SH16A	16	27	24	48	16	44	8	25	38	5.5	M4	M5	40
SH20A	20	31	30	60	20	51	10	30	45	6.6	M5	M6	70
SH25A	25	35	35	70	24	60	12	38	56	6.6	M6	M6	130
SH30A	30	42	42	84	28	70	12	44	64	9	M6	M8	180
SH35A	35	50	49	98	32	82	15	50	74	11	M8	M10	270
SH40A	40	60	57	114	36	96	15	60	90	11	M8	M10	420
SH50A	50	70	63	126	40	120	18	74	100	14	M12	M12	750
SH60A	60	80	74	148	45	136	18	90	120	14	M12	M12	1,100

Flanged Shaft Supporter

法兰型轴心支撑座

◆ SHF...A
Material: Aluminium Alloy 材质: 铝合金



Unit/单位 : mm

Model No. 型号	Nominal shaft diameter 实际轴径	Main dimensions 主要尺寸							Clamping bolt 固定螺栓	Mounting bolt 装配螺栓	Weight 重量 g
		W	L	T	F	G	B	S			
SHF10A	10	43	10	5	24	20	32	5.5	M5	M4	13
SHF12A	12	47	13	7	28	25	36	5.5	M5	M4	20
SHF13A	13	47	13	7	28	25	36	5.5	M5	M4	20
SHF16A	16	50	16	8	31	28	40	5.5	M5	M4	27
SHF20A	20	60	20	8	37	34	48	7	M6	M5	40
SHF25A	25	70	25	10	42	40	56	7	M6	M5	60
SHF30A	30	80	30	12	50	46	64	9	M8	M6	110
SHF35A	35	92	35	14	58	50	72	12	M10	M8	380
SHF40A	40	102	40	16	67	56	80	12	M10	M10	510
SHF50A	50	122	50	19	83	70	96	14	M12	M12	890
SHF60A	60	140	60	23	95	82	112	14	M12	M12	1,500

Case Hardened Shaft

硬化轴心

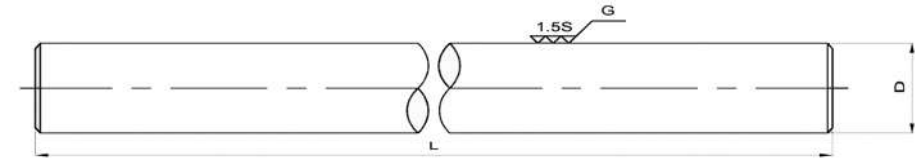
◆ SF / SSF / SCF



SF Case Hardened Shaft 硬化轴心
Material 材质: SUJ2 (high carbon chromium steel 轴承钢)
Treatment 处理方式: Induction hardened and ground 高周波热处理及研磨
Hardness 硬度: HRC 62 ± 2

SSF Stainless Steel Case Hardened Shaft 不锈钢硬化轴心
Material 材质: SUS440C (martensite stainless steel 不锈钢)
Treatment 处理方式: Induction hardened and ground 高周波热处理及研磨
Hardness 硬度: HRC 58 ± 2

SCF Case Hardened Chrome Shaft 硬化铬合轴心
Material 材质: SUJ2 (high carbon chromium steel 轴承钢)
Treatment 处理方式: Induction hardened, ground chrome plated and polished 高周波热处理, 研磨及表面镀铬
Hardness 硬度: HRC 62 ± 2



Diameter 外径	Model No. 型号			Diameter Tolerance 外径公差 g6	Max length 最大制作长度 L	Depth of effective hardened layer 有效硬化层深度	Weight 重量
	SF	SSF	SCF				
3	SF 3	SSF 3	SCF 3	-4	1000	1.5 and above 1.5 以上	0.06
4	SF 4	SSF 4	SCF 4		1000		0.10
5	SF 5	SSF 5	SCF 5		1000		0.16
6	SF 6	SSF 6	SCF 6	3000	0.23		
8	SF 8	SSF 8	SCF 8	-5	5000		0.40
10	SF 10	SSF 10	SCF 10		5000		0.62
12	SF 12	SSF 12	SCF 12	-6	6000	2.0 and above 2.0 以上	0.89
13	SF 13	SSF 13	SCF 13		6000		1.05
16	SF1 6	SSF 16	SCF 16		6000		1.58
20	SF 20	SSF 20	SCF 20	-7	6000	2.5 and above 2.5 以上	2.47
25	SF 25	SSF 25	SCF 25		6000		3.85
30	SF 30	SSF 30	SCF 30	-20	6000	3.0 and above 3.0 以上	5.55
35	SF 35	SSF 35	SCF 35		6000		7.55
40	SF 40	SSF 40	SCF 40	-9	6000	9.87	9.87
50	SF 50	SSF 50	SCF 50		6000		15.41
60	SF 60	SSF 60	SCF 60	-10	6000	22.20	22.20
80	SF 80	SSF 80	SCF 80		6000		39.46
100	SF 100	SSF 100	SCF 100	-12	6000	61.66	61.66
				-34	6000		

Case Hardened Hollow Shaft

硬化空心轴心

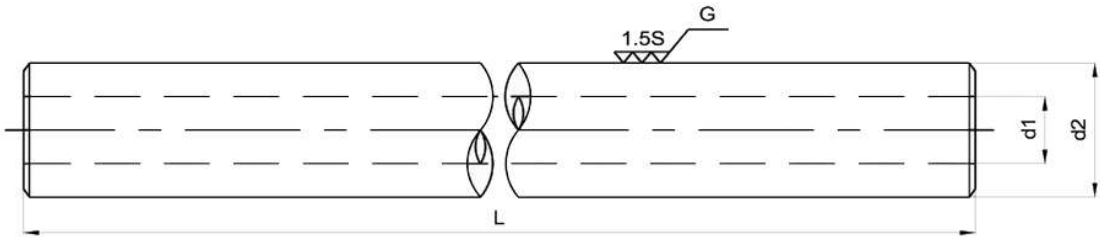


Linear Motion
线性传动

◆ SFT / SCFT

SFT Case Hardened Hollow Shaft 硬化空心轴心
 Material 材质: SUJ2 (high carbon chromium steel 轴承钢)
 Treatment 处理方式: Induction hardened and ground 高周波热处理及研磨
 Hardness 硬度: HRC 62 ± 2

SCFT Case Hardened Chrome Hollow Shaft 硬化铬合空心轴心
 Material 材质: SUJ2 (high carbon chromium steel 轴承钢)
 Treatment 处理方式: Induction hardened, ground chrome plated and polished 高周波热处理, 研磨及表面镀铬
 Hardness 硬度: HRC 62 ± 2



Outer Diameter 外径 d2	Inner Diameter 内径 d1	Model No. 型号		Diameter Tolerance 外径公差 g6	Max length 最大制作长度 L	Depth of effective hardened layer 有效硬化层深度	Weight 重量
mm	mm	SFT	SCFT	m	mm	mm	kg/m
10	4	SFT 10	SCFT 10	-5 ~ -14	2000	1.2	0.52
12	5	SFT 12	SCFT 12	-6 ~ -17	2000	1.3	0.79
13	6	SFT 13	SCFT 13	-6 ~ -17	2000	1.3	0.82
16	8	SFT 16	SCFT 16	-6 ~ -17	2000	1.6	1.28
20	14	SFT 20	SCFT 20	-7 ~ -20	3000	1.8	1.25
25	16	SFT 25	SCFT 25	-7 ~ -20	3000	2.0	2.35
30	17	SFT 30	SCFT 30	-7 ~ -20	3000	2.4	3.50
35	19	SFT 35	SCFT 35	-9 ~ -25	3000	2.5	4.90
40	20	SFT 40	SCFT 40	-9 ~ -25	3000	2.6	4.99
50	25	SFT 50	SCFT 50	-9 ~ -25	3000	2.9	9.91
60	30	SFT 60	SCFT 60	-10 ~ -29	3000	3.0	14.20

Coupling

联轴器



Definition & Usage

A coupling is broadly defined as a mechanical device that serves to connect the ends of adjacent parts and objects.

Coupling are frequently used to connect two shafts, end-to-end along the same line. This is done for two main purposes.

Firstly, it enables power (torque) to be transmitted from one shaft to the other, causing both to rotate in unison and at the same RPM. Secondly, couplings can help to compensate for minor mis-alignments caused by random movements between two shafts.

As it is nearly impossible to attain perfect alignment of two shafts, couplings are vital to minimize the effect of misaligned shafts.

Even with very good initial shaft alignment, there is often a tendency for the coupled equipment to “drift” from its initial position, resulting in further mis-alignment of the shafts.

定义与用途

联轴器可以概括的定义为连接相邻零件和物体的机械装置。

联轴器一般都用于将两个轴心连接在同一直线上的两端。这样做主要有两个目的。

首先，联轴器可在轴心与轴心之间传递动力（转矩），并且让两者均达到相同的运转速度。第二，联轴器可调节两轴之间因任意运转偏移而产生的细微误差。

要使两个轴心分毫无差的并列几乎是不可能的。因此联轴器是把轴心与轴心之间的偏移误差所可能造成的负面影响减少到最低的关键。

即使最初的对准度都很好，与轴心所连接的装置也经常会在运转过程中逐渐偏离其原来的方位，导致轴心更大的偏差。

If not properly compensated, such minor shaft mis-alignments can lead to unnecessary wear and tear, and subsequent premature replacements of other systems components.

Selection

Each type of coupling has its advantages and limitations. There is not one coupling type that can be applied in all situations.

The features of the various type of coupling have to be carefully analyzed and considered as they can play a key role in dramatically extending the service life of the drive elements they connect.

Selecting the right coupling is a complex task because operating conditions vary widely among similar applications. Some factors commonly used for evaluation includes:

- Torque
- Shaft sizes and fits
- Load characteristics of the driven equipment
- Space limitations and maintenance

With proper selection if the right type of coupling for any application, ideal linkage can be achieved for any motion system.

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如果没有适当地调整, 这细微的偏移误差就能引起轴心无谓的磨损, 进而促使系统中其他的零件快速耗损, 需要提早更换。

选择性

每一款联轴器都有它的优缺点, 并无适用于任何条件下的通用款。

联轴器对于延长它所连接的发动原件的使用寿命扮演重要的角色, 所以各款联轴器的特征都需仔细分析及考量其适用性。

选择正确的联轴器是一个复杂的任务, 因为类似的应用可能因操作环境的不同而需要不一样的联轴器。一般会上会考虑的因素包括:

- 扭矩
- 轴的尺寸和适合度
- 发动设备的载重量特性
- 空间的局限性和维持性

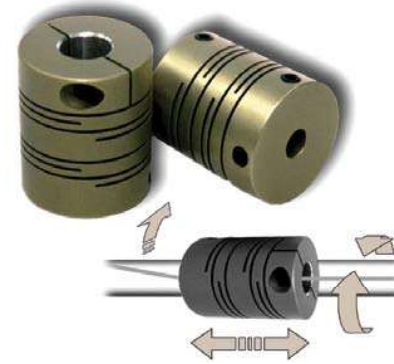
在不同的应用中, 选择适合的联轴器可使任何运动系统达到理想的连接。

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Slit Type Flexible Coupling

裂口型挠性联轴器



▶ Page 76

SRB

- Zero backlash 零间隙
- A perfectly built-in type metal coupling 极佳的金属固定性联轴器
- Complementary to mis-alignment 具有方位偏移修正功能
- Low inertia while delivering high torque 在传达高转矩时, 低惯性
- Identical function for both regular & reverse direction 一般和相反的方向具有同样的功能

MFCS

- Zero backlash 零间隙
- Complete absorption of eccentricity, angularity & end-play by spring action 藉由弹性作用, 完美吸收轴偏移, 角偏差, 轴端部位偏差
- High torsional stiffness & response 高扭力
- Identical clockwise & anti-clockwise rotational characteristics 同时具有顺时针和逆时针的双重旋转性能



▶ Page 88

Oldham Coupling

OLDHAM联轴器



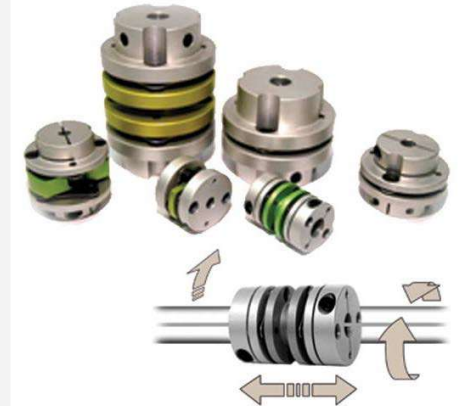
SOH

- ◆ A torsion-resistant 3-piece coupling
3片式扭转抵抗性联轴器
- ◆ Excellent complementary to amplitude & mis-alignment
具有极好的振幅偏移和方位偏移修正功能
- ◆ Easy installation 安装简便
- ◆ No restoring force 无恢复力

▶ Page 92

Disk Coupling

磁盘型联轴器



SDA / SDW / SDS

- ◆ Metal built-in type; strong against torsion
抗扭转力很强的金属固定型联轴器
- ◆ Unaffected by speed & backlash
不受速度和间隙力影响
- ◆ High-precision position controlling system
高精度位置控制系统
- ◆ Complements all mis-alignment
对所有方位偏移有修正功能

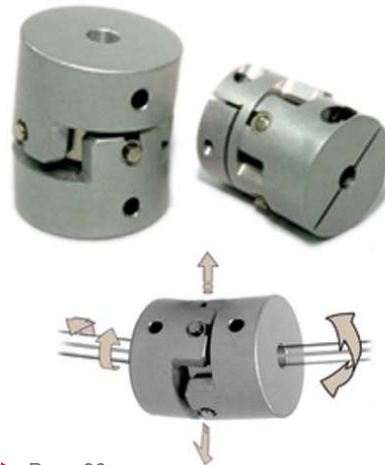
▶ Page 98

Cross Coupling

交叉型联轴器

SCJ

- ◆ A peculiar coupling combining the functions of both Oldham & universal joint coupling
结合了oldham和普通联轴器的功能的特殊联轴器
- ◆ Excellent complementary to amplitude, eccentricity & mis-alignment
针对振幅, 轴和方位的偏移有极好的修正功能
- ◆ Out of reach from stress caused by bearings
远离由轴承造成的压力
- ◆ No restoring force 无恢复力



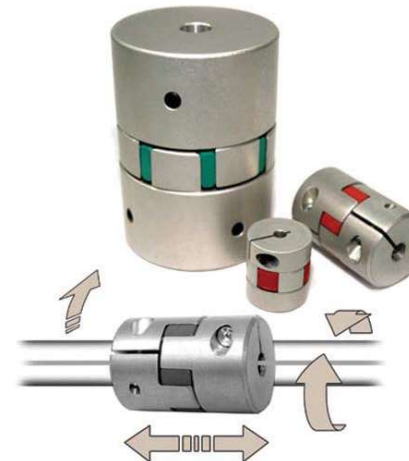
▶ Page 96

Jaw Coupling

钳夹型联轴器

SJC

- ◆ Zero backlash 零间隙
- ◆ High torsion-sensitivity & high torque
高扭力敏感度和高扭矩
- ◆ Reduces impact of pit load
减少抗衡冲击力



▶ Page 108

Miniature Bellows Flexible Coupling

微型波纹挠性联轴器



▶ Page 116

MFB

- ♦ Zero backlash 零作用力
- ♦ Spring action bellows configuration absorbs parallel, angular mis-alignments and shaft end-play 具有弹性作用结构的波纹，能调节平行、角度和轴端部位的偏移误差
- ♦ Identical clockwise & anticlockwise rotational characteristics 具顺时针和逆时针的双重旋转性能
- ♦ Maintenance free and excellent resistance to oil and chemicals 免保养，抗油，抗化学性
- ♦ Bellows available in stainless steel (MFBS) or phosphor bronze (MFB) 波纹由不锈钢(MFBS)或磷青铜(MFB)制成

Gum Type Flexible Coupling

防震橡胶型联轴器



▶ Page 122

SGF

- ♦ Zero backlash 零间隙
- ♦ Identical clockwise & anticlockwise rotational characteristics 具顺时针和逆时针的双重旋转性能
- ♦ No Resonance; High Gain 无共振，可增加电动机增益
- ♦ High Vibration Absorption 卓越的振动吸收功能
- ♦ Excellent exact position decision 高速旋转，位置固定性能卓越

High Torque Servoflex Coupling

高度扭短膜片联轴器

CP

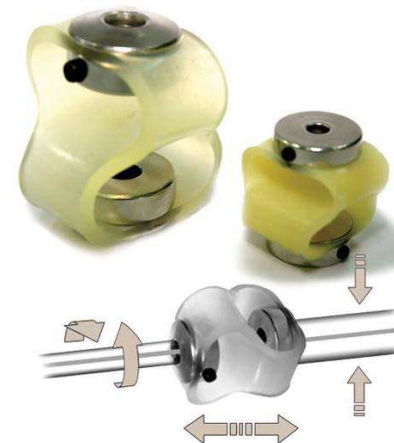
- ♦ High torque due to high rigidity and stiffness of the material 使用高刚性和高硬度材料，因此传动扭矩大
- ♦ Simple to assemble, High temperature resistant, suitable for dusty environment application 组装简易，耐高温，且适用于有灰尘的环境
- ♦ Noiseless, non-frictional and long life span 噪声少，无摩擦，使用寿命长



▶ Page 120

Flexible Coupling

挠性联轴器



▶ Page 124

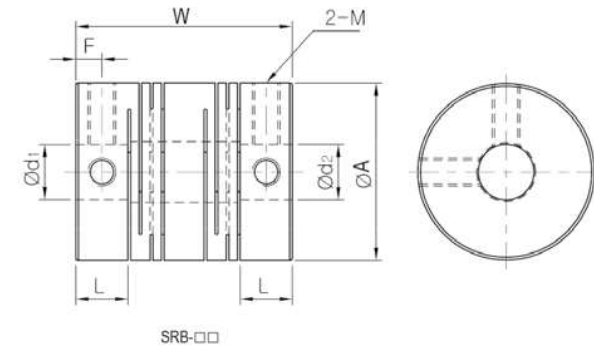
SFC

- ♦ Absorbs big amplitude, eccentricity & end-play simultaneously 能够很好地同时吸收高振幅、轴和轴端偏移误差
- ♦ Absorbs impact & vibration perfectly 完美的吸收冲击力 and 震动力
- ♦ Noiseless, non-lubricating & low inertia moment 噪声少，没有润滑作用的低惯性

Slit Type Flexible Coupling

裂口型挠性联轴器

◆ SRB-□□
Setscrew Type 固定螺钉类型



◆ Measurements & Specifications 测量尺寸与规格

Unit 单位: mm 毫米

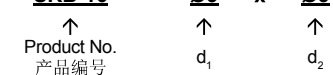
Product Number 产品编号	Dimension 测量尺寸 (±0.3)				M	Mass 重量 (g)
	A	W	L	F		
SRB-12	12.7	18	4.5	2.2	M2.5	3.6
SRB-16	16	18.5	4.6	2.3	M3	7.8
SRB-19	19.1	22	5.7	2.8	M3	12
SRB-22	22.2	25	6.5	3.2	M4	19
SRB-26	26.2	30	6.8	3.4	M4	33
SRB-32	31.8	39	9.4	4.7	M5	62
SRB-39	39	56	16	6	M5	124
SRB-49	49	70	20	9.5	M6	280
SRB-60	60	88	19	9	M8	500

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)																			
	Ø3	Ø4	Ø5	Ø6	Ø6 ³⁵	Ø8	Ø9 ²⁵	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	
SRB-12 □	•	•	•																	
SRB-16 □	•	•	•	•																
SRB-19 □		•	•	•	•	•														
SRB-22 □			•	•	•	•	•	•												
SRB-26 □			•	•	•	•	•	•	•	•										
SRB □-32 □						•	•	•	•	•	•	•								
SRB □-39 □								•	•	•	•	•	•	•	•					
SRB □-49 □										•	•	•	•	•	•	•				
SRB □-60 □												•	•	•	•	•	•	•	•	•

◆ Material 材质: Aluminum Alloy 铝合金 AL-7075-T6

Max. RPM 最高回转数 (min ⁻¹)	Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
28,000	2	4	8.8 x 10 ⁻⁸	36	2.5°	0.10	±0.3
24,000	4	8	2.8 x 10 ⁻⁷	65	2.5°	0.15	±0.3
20,000	6	12	6.4 x 10 ⁻⁷	140	2.5°	0.15	±0.3
17,000	10	20	1.4 x 10 ⁻⁶	170	2.5°	0.15	±0.4
15,000	15	30	3.4 x 10 ⁻⁶	240	2.5°	0.20	±0.4
12,000	26	52	9.4 x 10 ⁻⁶	400	2.5°	0.20	±0.4
9,500	65	130	2.8 x 10 ⁻⁵	460	2.5°	0.25	±0.4
7,000	130	260	1.1 x 10 ⁻⁴	740	2.5°	0.25	±0.5
6,000	240	480	3.0 x 10 ⁻⁴	980	2.5°	0.30	±0.5

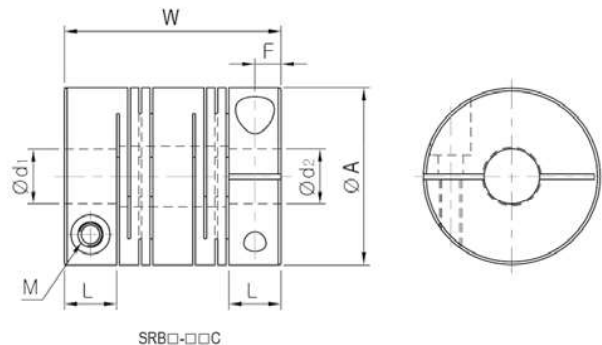
- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子: **SRB-16** - **Ø3** x **Ø5**



Slit Type Flexible Coupling

裂口型挠性联轴器

◆ SRB□ - □□C
Clamp Type 钳式类型



◆ Measurements & Specifications 测量尺寸与规格 Unit 单位: mm 毫米

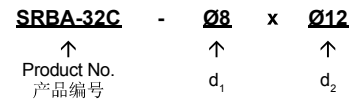
Product Number 产品编号	Dimension 测量尺寸 (±0.3)				M	Mass 重量 (g)
	A	W	L	F		
SRB-12C	12.7	19	5	2.5	M2	3.8
SRB-16C	16	21.5	6.1	3	M2.6	8.5
SRB-19C	19.1	23	6.1	3	M2.6	12
SRB-22C	22.2	26.5	7.2	3.6	M3	19
SRB-26C	26.2	31.4	7.4	3.7	M3	33
SRBA-32C	31.8	39	9.4	4.7	M4	60
SRBB-32C	31.8	44	9.4	4.7	M4	68
SRBA-39C	39	43	10.8	5.4	M5	95
SRBB-39C	39	56	12	6	M5	135
SRBA-49C	49	63.5	15	7.5	M6	260
SRBB-49C	49	70	20	7.5	M6	270
SRBA-60C	60	76.2	19	9.35	M8	440
SRBB-60C	60	88	19	9.35	M8	520

Product Number 产品编号	Stock Bores (d, x d ₂) Tolerance H8 / 标准孔径 (公差 H8)																		
	Ø3	Ø4	Ø5	Ø6	Ø6 ³⁵	Ø8	Ø9 ^{32S}	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25
SRB-12□	•	•	•																
SRB-16□	•	•	•	•															
SRB-19□		•	•	•	•	•													
SRB-22□			•	•	•	•	•	•											
SRB-26□			•	•	•	•	•	•	•	•									
SRB□-32□						•	•	•	•	•	•	•							
SRB□-39□							•	•	•	•	•	•	•	•	•				
SRB□-49□									•	•	•	•	•	•	•	•	•		
SRB□-60□												•	•	•	•	•	•	•	•

◆ Material 材质: Aluminum Alloy 铝合金 AL-7075-T6

Max. RPM 最高回转数 (min ⁻¹)	Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
12,000	2	4	8.8 x 10 ⁻⁸	36	2.5°	0.10	±0.3
10,000	4	8	3.1 x 10 ⁻⁷	65	2.5°	0.15	±0.3
8,000	6	12	6.4 x 10 ⁻⁷	140	2.5°	0.15	± 0.35
7,000	10	20	1.4 x 10 ⁻⁶	170	2.5°	0.15	± 0.35
6,000	15	30	3.4 x 10 ⁻⁶	240	2.5°	0.20	± 0.4
5,000	26	52	1.0 x 10 ⁻⁶	400	2.5°	0.20	± 0.4
5,000	26	52	1.0 x 10 ⁻⁵	380	2.5°	0.20	± 0.4
4,000	65	130	2.1 x 10 ⁻⁵	520	2.5°	0.25	± 0.4
4,000	65	130	3.1 x 10 ⁻⁵	460	2.5°	0.25	± 0.4
3,300	130	260	9.4 x 10 ⁻⁵	740	2.5°	0.25	±0.5
3,300	130	260	1.0 x 10 ⁻⁴	740	2.5°	0.25	±0.5
2,600	240	480	2.5 x 10 ⁻⁴	1000	2.5°	0.25	±0.5
2,600	240	480	3.0 x 10 ⁻⁴	980	2.5°	0.30	±0.5

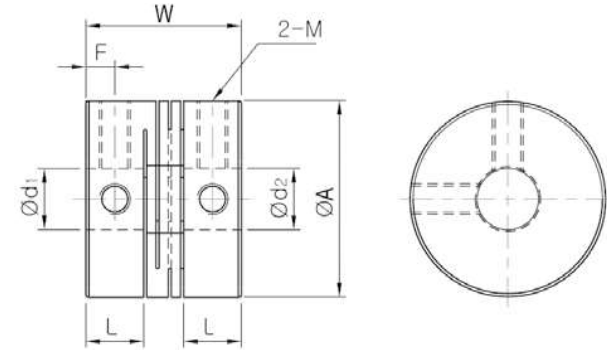
- All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- Ordering Example 订购例子:



Slit Type Flexible Coupling

裂口型挠性联轴器

- ◆ SRBM-□□
Setscrew Type 固定螺钉类型



SRBM-□□

◆ Material 材质: Aluminum Alloy 铝合金 AL-7075-T6

◆ Measurements & Specifications 测量尺寸与规格

Unit 单位: mm 毫米

Product Number 产品编号	Dimension 测量尺寸 (±0.3)				M	Mass 重量 (g)
	A	W	L	F		
SRBM-12	12.7	13	4.5	2.2	M2.5	3.2
SRBM-16	16	14	5	2.5	M3	8
SRBM-19	19.1	17	6.3	3.1	M3	10
SRBM-22	22.2	19	6.9	3.4	M4	15
SRBM-26	26.2	22	7.9	3.9	M4	25
SRBM-32	31.8	29	10.5	5.2	M5	50

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)											
	Ø3	Ø4	Ø5	Ø6	Ø6.35	Ø8	Ø9.525	Ø10	Ø11	Ø12	Ø14	Ø15
SRBM(S)-12□	•	•	•									
SRBM(S)-16□	•	•	•	•								
SRBM(S)-19□		•	•	•	•	•						
SRBM(S)-22□			•	•	•	•	•	•				
SRBM(S)-26□			•	•	•	•	•	•	•	•		
SRBM(S)-32□				•	•	•	•	•	•	•	•	•

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
2	4	28,000	7.4×10 ⁻⁸	60	1.0°	0	±0.15
4	8	24,000	2.9×10 ⁻⁷	130	1.0°	0	±0.15
6	12	22,000	5.0×10 ⁻⁷	160	1.0°	0	±0.15
10	20	19,000	1.1×10 ⁻⁶	180	1.0°	0	±0.15
15	36	18,000	2.5×10 ⁻⁶	480	1.0°	0	±0.15
26	52	12,000	7.5×10 ⁻⁶	780	1.0°	0	±0.15

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

SRBM-22 - **Ø5** x **Ø8**
 ↑ ↑ ↑
 Product No. d₁ d₂
 产品编号

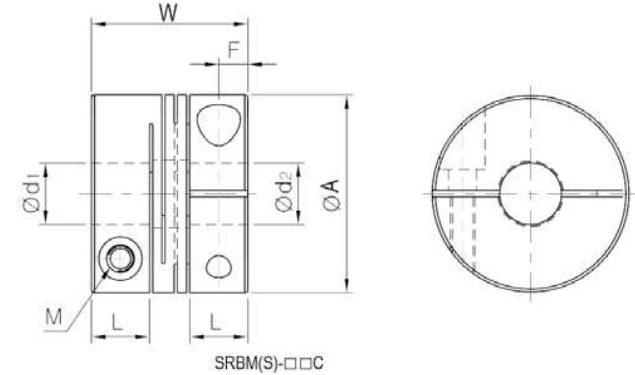
Power Transmission
动力传输

Power Transmission
动力传输

Slit Type Flexible Coupling

裂口型挠性联轴器

- ◆ SRBM (S) - □□C
Clamp Type 钳式类型



SRBM(S)-□□C

- ◆ Material 材质: Aluminum Alloy 铝合金 AL-7075-T6 / Stainless-Steel 不锈钢

- ◆ Measurements & Specifications 测量尺寸与规格 Unit 单位: mm 毫米

Product Number 产品编号	Dimension 测量尺寸 (±0.3)				M	Mass 重量 (g)
	A	W	L	F		
SRBM-12C	12.7	14	5	2.5	M2	3.2
SRBM-16C	16	16	6	3.0	M2.6	8
SRBM-19C	19.1	17	6.3	3.1	M2.6	10
SRBM-22C	22.2	20	7.4	3.7	M3	15
SRBM-26C	26.2	23	8.4	4.2	M3	25
SRBM-32C	31.8	30	11	5.5	M4	50
SRBMS-12C	12.7	14	5	2.5	M2	10
SRBMS-16C	16	16	6	3.0	M2.6	20
SRBMS-19C	19.1	17	6.3	3.1	M2.6	32
SRBMS-22C	22.2	20	7.4	3.7	M3	42
SRBMS-26C	26.2	23	8.4	4.2	M3	70
SRBMS-32C	31.8	30	11	5.5	M4	140

- ◆ "S" denotes that material is Stainless-steel. 所 "S" 代表产品是不锈钢材质。

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)											
	Ø3	Ø4	Ø5	Ø6	Ø6.35	Ø8	Ø9.525	Ø10	Ø11	Ø12	Ø14	Ø15
SRBM(S)-12□	•	•	•									
SRBM(S)-16□	•	•	•	•								
SRBM(S)-19□		•	•	•	•	•						
SRBM(S)-22□			•	•	•	•	•	•				
SRBM(S)-26□			•	•	•	•	•	•	•	•		
SRBM(S)-32□				•	•	•	•	•	•	•	•	•

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
2	4	20,000	7.4×10 ⁻⁸	60	1.0°	0	±0.15
4	8	20,000	2.9×10 ⁻⁷	130	1.0°	0	±0.15
6	12	19,000	5.0×10 ⁻⁷	160	1.0°	0	±0.15
10	20	17,000	1.1×10 ⁻⁶	180	1.0°	0	±0.15
15	36	15,000	2.5×10 ⁻⁶	480	1.0°	0	±0.15
26	52	10,000	7.5×10 ⁻⁶	780	1.0°	0	±0.15
3	6	20,000	2.4×10 ⁻⁷	120	1.0°	0	±0.15
5	10	20,000	7.0×10 ⁻⁷	240	1.0°	0	±0.15
9	18	19,000	1.5×10 ⁻⁶	300	1.0°	0	±0.15
16	32	17,000	3.1×10 ⁻⁶	350	1.0°	0	±0.15
21	42	15,000	7.2×10 ⁻⁶	720	1.0°	0	±0.15
35	70	10,000	2.0×10 ⁻⁵	1300	1.0°	0	±0.15

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子: **SRBMS-12C** - **Ø3** x **Ø5**



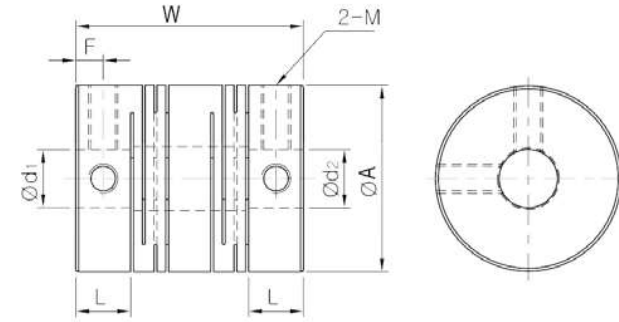
Power Transmission
动力传输

Power Transmission
动力传输

Slit Type Flexible Coupling

裂口型挠性联轴器

◆ SRBS-□□
Setscrew Type 固定螺钉类型



SRBS-□□

◆ Measurements & Specifications 测量尺寸与规格

Unit 单位: mm 毫米

Product Number 产品编号	Dimension 测量尺寸 (±0.3)				M	Mass 重量 (g)
	A	W	L	F		
SRBS-12	12.7	18	4.5	2.2	M2.5	13
SRBS-16	16	18.5	4.6	2.3	M3	21
SRBS-19	19.1	22	5.7	2.8	M3	32
SRBS-22	22.2	25	6.5	3.2	M4	43
SRBS-26	26.2	30	6.8	3.4	M4	84
SRBS-32	31.8	39	9.4	4.7	M5	160
SRBS-39	39	56	16	6	M5	350
SRBS-49	49	70	20	9.5	M6	740
SRBS-60	60	88	19	9	M8	1370

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)																	
	Ø3	Ø4	Ø4.5	Ø5	Ø6	Ø6.35	Ø8	Ø9 ⁵²⁵	Ø10	Ø12	Ø14	Ø15	Ø16	Ø18	Ø20	Ø22	Ø24	Ø25
SRBS-12□	•	•	•	•	•													
SRBS-16□	•	•	•	•	•													
SRBS-19□		•	•	•	•	•	•											
SRBS-22□				•	•	•	•	•	•									
SRBS-26□				•	•	•	•	•	•	•								
SRBS-32□					•	•	•	•	•	•	•							
SRBS-39□							•		•	•	•	•						
SRBS-49□									•	•	•	•	•	•				
SRBS-60□											•	•	•	•	•	•	•	•

◆ Material 材质: Stainless-Steel 不锈钢

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
3	6	28,000	3.0×10 ⁻⁸	65	2.5	0.1	±0.3
5	10	24,000	8.4×10 ⁻⁷	85	2.5	0.15	±0.3
9	18	20,000	1.7×10 ⁻⁷	230	2.5	0.15	±0.3
16	32	17,000	3.0×10 ⁻⁶	290	2.5	0.15	±0.4
21	42	15,000	8.6×10 ⁻⁶	350	2.5	0.2	±0.4
35	70	12,000	2.5×10 ⁻⁶	840	2.5	0.2	±0.4
80	160	9,500	8.4×10 ⁻⁵	1,000	2.5	0.25	±0.4
160	320	7,000	2.8×10 ⁻⁴	1,400	2.5	0.25	±0.5
300	600	6,000	8.6×10 ⁻⁴	1,800	2.5	0.3	±0.5

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

SRBS-19 - **Ø4** x **Ø6**
 ↑ ↑ ↑
 Product No. d₁ d₂
 产品编号

Power Transmission
动力传输

Power Transmission
动力传输

Slit Type Flexible Coupling

裂口型挠性联轴器

◆ SRBS - □□C
Clamp Type 钳式类型

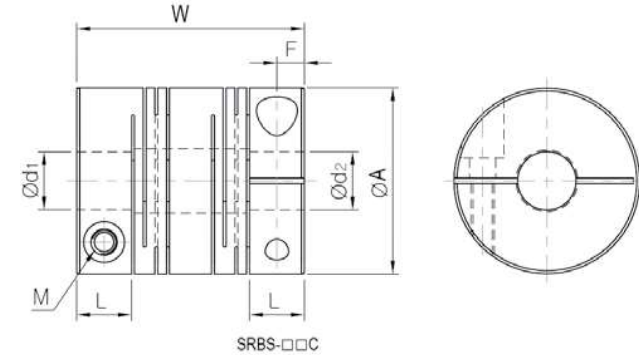


◆ Measurements & Specifications 测量尺寸与规格

Unit 单位: mm 毫米

Product Number 产品编号	Dimension 测量尺寸 (±0.3)				M	Mass 重量 (g)
	A	W	L	F		
SRBS-12C	12.7	19	5	2.5	M2	13
SRBS-16C	16	21.5	6.1	3	M2.6	26
SRBS-19C	19.1	23	6.1	3	M2.6	32
SRBS-22C	22.2	26.5	7.2	3.6	M3	43
SRBS-26C	26.2	31.4	7.4	3.7	M3	84
SRBS-32C	31.8	39	9.4	4.7	M4	160
SRBAS-39C	39	43	10.8	5.4	M5	280
SRBBS-39C	39	56	12	6	M5	360
SRBAS-49C	49	63.5	15	7.5	M6	710
SRBBS-49C	49	70	15	7.5	M6	740
SRBAS-60C	60	76.2	19	9.35	M8	1150
SRBBS-60C	60	88	19	9.35	M8	1370

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)																	
	Ø3	Ø4	Ø4.5	Ø5	Ø6	Ø6.35	Ø8	Ø9 ^{S25}	Ø10	Ø12	Ø14	Ø15	Ø16	Ø18	Ø20	Ø22	Ø24	Ø25
SRBS-12□	•	•	•	•	•													
SRBS-16□	•	•	•	•	•													
SRBS-19□		•	•	•	•	•	•											
SRBS-22□				•	•	•	•	•	•									
SRBS-26□				•	•	•	•	•	•	•								
SRBS-32□					•	•	•	•	•	•	•							
SRB□S-39□							•		•	•	•	•						
SRB□S-49□										•	•	•	•	•	•			
SRB□S-60□											•	•	•	•	•	•	•	•



◆ Material 材质: Stainless-Steel 不锈钢

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
3	6	12,000	3.0×10 ⁻⁷	65	2.5	0.1	±0.3
5	10	10,000	9.0×10 ⁻⁷	85	2.5	0.15	±0.3
9	18	8,000	1.7×10 ⁻⁶	230	2.5	0.15	±0.3
16	32	7,000	3.0×10 ⁻⁶	290	2.5	0.15	±0.4
21	42	6,000	8.6×10 ⁻⁶	350	2.5	0.2	±0.4
35	70	5,000	2.5×10 ⁻⁵	840	2.5	0.2	±0.4
80	160	4,000	4.0×10 ⁻⁵	1,200	2.5	0.25	±0.4
80	160	4,000	8.6×10 ⁻⁵	1,000	2.5	0.25	±0.4
160	320	3,300	2.7×10 ⁻⁴	1,600	2.5	0.25	±0.5
160	320	3,300	2.8×10 ⁻⁴	1,400	2.5	0.25	±0.5
300	600	2,600	7.2×10 ⁻⁴	2,100	2.5	0.25	±0.5
300	600	2,600	8.6×10 ⁻⁴	2,050	2.5	0.3	±0.5

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子: **SRBS-12C** - **Ø3** x **Ø5**



Power Transmission
动力传输

Power Transmission
动力传输

Slit Type Flexible Coupling

裂口型挠性联轴器

- ◆ MFCS - □□
Stainless Steel Setscrew Type 不锈钢固定螺钉类型



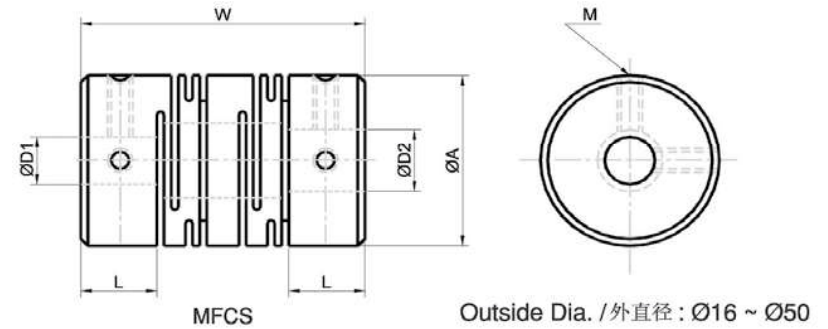
◆ Measurements & Specifications 测量尺寸与规格

Unit 单位: mm 毫米

Product Number 产品编号	Dimension 测量尺寸 (±0.3)			M	Mass 重量 (g)
	A	W	L		
MFCS-16	16	23	6.5	M3	23
MFCS-20	20	26	7.5	M3	40
MFCS-25	25	31	8.5	M4	80
MFCS-32	32	41	12	M4	170
MFCS-40	40	56	17	M5	330
MFCS-50	50	71	21	M6	685

Product Number 产品编号	Stock Bores (D ₁ x D ₂) Tolerance H8 / 标准孔径 (公差 H8)														
	Ø4	Ø4.5	Ø5	Ø6	Ø6.35	Ø7	Ø8	Ø9.525	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø18
MFCS-16	•	•	•	•	•	•	•								
MFCS-20			•	•	•	•	•	•	•						
MFCS-25				•	•	•	•	•	•	•	•				
MFCS-32				•	•	•	•	•	•	•	•	•			
MFCS-40							•	•	•	•	•	•	•	•	
MFCS-50									•	•	•	•	•	•	•

- ◆ Hubs with shaft bores diameters of Ø4 or less have only one setscrew. 有轴的插孔直径等于或小于4的只有一个固定螺钉。



- ◆ Material 材质: Stainless-Steel 不锈钢

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Errors of Mis-alignment 偏移误差		
				Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
0.5	1.0	24,000	8.6×10 ⁻⁷	2.0°	0.10	±0.3
1.0	2.0	19,000	2.4×10 ⁻⁶	2.0°	0.10	±0.3
2.1	4.2	15,000	7.2×10 ⁻⁶	2.0°	0.15	±0.4
3.5	7.0	12,000	2.6×10 ⁻⁵	2.0°	0.15	±0.5
8.0	16.0	9,600	8.7×10 ⁻⁵	2.0°	0.20	±0.5
15.0	30.0	7,700	2.6×10 ⁻⁴	2.0°	0.20	±0.5

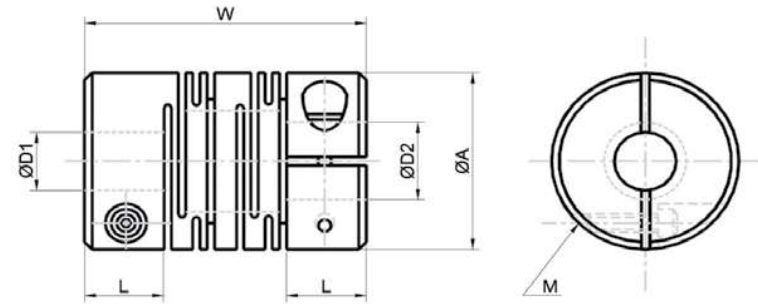
- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

MFCS-25 - **Ø8** x **Ø8**
 ↑ ↑ ↑
 Product No. D₁ D₂
 产品编号

Slit Type Flexible Coupling

裂口型挠性联轴器

- ◆ MFCS - □□C
Stainless Steel Clamp Type 不锈钢钳式类型



MFCS - □□C

Outside Dia. / 外直径: Ø16 ~ Ø50

◆ Measurements & Specifications 测量尺寸与规格

Unit 单位: mm 毫米

Product Number 产品编号	Dimension 测量尺寸 (±0.3)			M	Mass 重量 (g)
	A	W	L		
MFCS-16C	16	23	6.5	M3	27
MFCS-20C	20	26	7.5	M3	45
MFCS-25C	25	31	8.5	M3	87
MFCS-32C	32	41	12	M4	180
MFCS-40C	40	56	17	M5	350
MFCS-50C	50	71	21	M6	730

Product Number 产品编号	Stock Bores (D ₁ x D ₂) Tolerance H8 / 标准孔径 (公差 H8)														
	Ø4	Ø4.5	Ø5	Ø6	Ø6.35	Ø7	Ø8	Ø9.525	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø18
MFCS-16C			•	•											
MFCS-20C			•	•	•	•	•								
MFCS-25C			•	•	•	•	•	•	•						
MFCS-32C				•	•	•	•	•	•	•	•	•			
MFCS-40C							•	•	•	•	•	•			
MFCS-50C											•	•	•	•	•

- ◆ Material 材质: Stainless-Steel 不锈钢

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Errors of Mis-alignment 偏移误差		
				Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
0.5	1.0	9,500	9.2×10 ⁻⁷	2.0°	0.10	±0.3
1.0	2.0	7,600	2.5×10 ⁻⁶	2.0°	0.10	±0.3
2.1	4.2	6,100	7.4×10 ⁻⁶	2.0°	0.15	±0.4
3.5	7.0	4,800	2.7×10 ⁻⁵	2.0°	0.15	±0.5
8.0	16.0	3,800	9.0×10 ⁻⁵	2.0°	0.20	±0.5
15.0	30.0	3,100	2.7×10 ⁻⁴	2.0°	0.20	±0.5

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

MFCS-25C - **Ø8** x **Ø8**
 ↑ ↑ ↑
 Product No. D₁ D₂
 产品编号

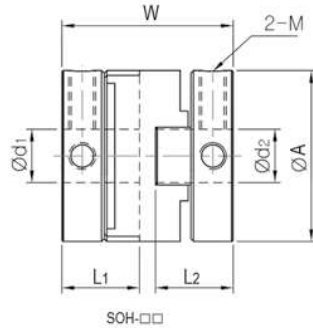
Power Transmission
动力传输

Power Transmission
动力传输

Zero Backlash Oldham Coupling

零间隙OLDHAM联轴器

◆ SOH - □□
Setscrew Type 固定螺钉类型

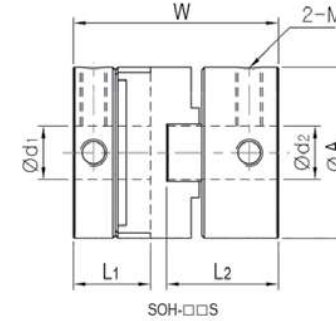


◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)				M	Mass 重量 (g)
	A	W	L1	L2		
SOH-16	16	18	8	8	M3	7
SOH-20	20	20	8.9	8.9	M4	14
SOH-25	25.5	25.5	11.6	11.6	M4	20
SOH-32	32	32	14.5	14.5	M5	48
SOH-43	43	52	24	24	M5	160
SOH-53	53	58	27	27	M6	252
SOH-57	57	77	36.5	36.5	M8	390
SOH-70	73	77	37	37	M8	450
SOH-16S	16	21	8	11	M3	12.7
SOH-20S	20	22.8	8.9	11.8	M4	16
SOH-25S	25.5	28.8	11.6	14.8	M4	19.1
SOH-32S	32	38.5	14.5	21	M5	22.2

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)																							
	Ø3	Ø4	Ø5	Ø6	Ø6.35	Ø8	Ø9 ^{9H9}	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø25.4	Ø28	Ø30	Ø32	Ø35
SOH-16□□	•	•	•	•																				
SOH-20□□		•	•	•	•	•																		
SOH-25□□			•	•	•	•	•																	
SOH-32□□				•	•	•	•	•	•	•	•	•	•	•										
SOH-43□□						•	•	•	•	•	•	•	•	•	•	•								
SOH-53□□							•	•	•	•	•	•	•	•	•	•	•	•						
SOH-57□□													•	•	•	•	•	•	•	•	•	•	•	•
SOH-70□□														•	•	•	•	•	•	•	•	•	•	•

◆ SOH - □□S
Setscrew Type 固定螺钉类型



◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
10	20	8,000	2.4×10 ⁻⁷	65	1.5°	1.0	0.1
15	30	7,000	8.1×10 ⁻⁷	120	1.5°	1.5	0.1
25	50	6,000	1.8×10 ⁻⁶	200	1.5°	2.0	0.1
70	140	4,800	6.7×10 ⁻⁶	620	1.5°	2.5	0.2
150	300	4,000	3.9×10 ⁻⁵	1200	1.5°	3.0	0.2
250	500	3,400	1.0×10 ⁻⁴	1400	1.5°	3.2	0.2
360	720	3,200	1.8×10 ⁻⁴	2600	1.5°	3.5	0.2
650	1300	3,000	4.5×10 ⁻⁴	4800	1.5°	3.5	0.2
10	20	8,000	2.7×10 ⁻⁷	65	1.5°	1.0	0.1
15	30	7,000	9.0×10 ⁻⁷	120	1.5°	1.5	0.1
25	50	6,000	2.6×10 ⁻⁶	200	1.5°	2.0	0.1
70	140	4,800	1.1×10 ⁻⁵	620	1.5°	2.5	0.2

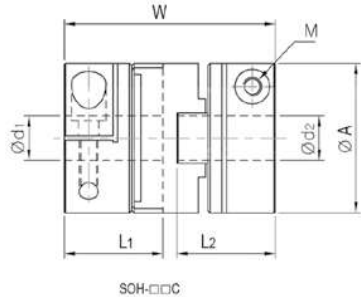
- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

SOH-32(S) - **Ø8** x **Ø10**
 ↑ ↑ ↑
 Product No. D₁ D₂
 产品编号

Zero Backlash Oldham Coupling

零间隙OLDHAM联轴器

◆ SOH - □□C
Clamp Type 钳式类型

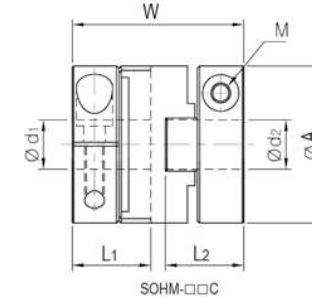


◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)				Fastening Bolt M	Mass 重量 (g)
	A	W	L1	L2		
SOH-16C	16	23.6	11	11	M2.6	10
SOH-20C	20	25.5	11.8	11.8	M2.6	16
SOH-25C	25.5	32	14.8	14.8	M3	34
SOH-32C	32	45	21	21	M4	80
SOH-43C	43	52	24	24	M5	160
SOH-53C	53	58	27	27	M5	252
SOH-57C	57	77	36.5	36.5	M6	390
SOHM-16C	16	21	9.5	9.5	M2.6	9
SOHM-20C	20	22.5	10	10	M2.6	14
SOHM-25C	25.5	27	12	12	M3	27
SOHM-32C	32	35	16	16	M4	52
SOHM-43C	43	47	21.2	21.2	M5	132
SOHM-53C	53	53	24.3	24.3	M5	235
SOHM-57C	57	56	26.7	26.7	M6	250
SOHM-70C	73	77	37	37	M8	450

Product Number 产品编号	Stock Bores (D ₁ x D ₂) Tolerance H8 / 标准孔径 (公差 H8)																							
	Ø3	Ø4	Ø5	Ø6	Ø6.35	Ø8	Ø9.525	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø25.4	Ø28	Ø30	Ø32	Ø35
SOH□-16□□	•	•	•	•																				
SOH□-20□□		•	•	•	•	•																		
SOH□-25□□			•	•	•	•	•																	
SOH□-32□□				•	•	•	•	•	•	•	•	•	•											
SOH□-43□□					•	•	•	•	•	•	•	•	•	•	•									
SOH□-53□□								•	•	•	•	•	•	•	•	•	•	•	•	•				
SOH□-57□□													•	•	•	•	•	•	•	•	•	•	•	•
SOH□-70□□														•	•	•	•	•	•	•	•	•	•	•

◆ SOHM - □□C
Clamp Type 钳式类型



◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
10	20	8,000	3.7×10 ⁻⁷	65	1.5°	1.0	0.1
15	30	7,000	9.3×10 ⁻⁷	120	1.5°	1.5	0.1
25	50	6,000	3.3×10 ⁻⁶	200	1.5°	2.0	0.1
70	140	4,800	1.3×10 ⁻⁵	620	1.5°	2.5	0.2
150	300	4,000	4.3×10 ⁻⁵	1200	1.5°	3.0	0.2
250	500	3,400	1.0×10 ⁻⁴	1400	1.5°	3.2	0.2
360	720	3,200	1.8×10 ⁻⁴	2600	1.5°	3.5	0.2
10	20	8,000	3.2×10 ⁻⁷	65	1.5°	1.0	0.1
15	30	7,000	8.2×10 ⁻⁷	120	1.5°	1.5	0.1
25	50	6,000	2.6×10 ⁻⁶	200	1.5°	2.0	0.1
70	140	4,800	8.3×10 ⁻⁶	620	1.5°	2.5	0.2
150	300	4,000	2.0×10 ⁻⁵	1200	1.5°	3.0	0.2
250	500	3,400	9.6×10 ⁻⁵	1400	1.5°	3.2	0.2
360	720	3,200	1.3×10 ⁻⁴	2600	1.5°	3.5	0.2
650	1300	3,000	4.5×10 ⁻⁴	4800	1.5°	3.5	0.2

- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

SOH(M)-20C - **Ø4** x **Ø4**
 ↑ ↑ ↑
 Product No. D₁ D₂
 产品编号

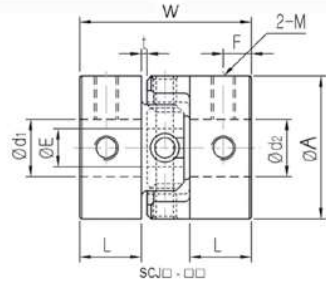
Power Transmission
动力传输

Power Transmission
动力传输

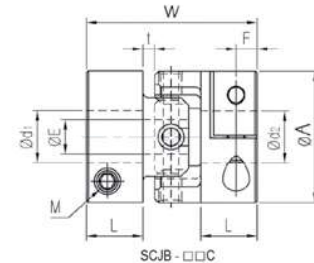
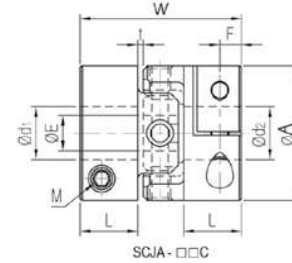
Cross Joint Type Flexible Coupling

交叉型弹性联轴器

◆ SCJ□ - □□
Setscrew Type 固定螺钉类型



◆ SCJ□ - □□C
Clamp Type 钳式类型



◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)						M	Mass 重量 (g)
	A	W	L	E	t	F		
SCJ-15	15	22.4	8	2.5	0.8	3.8	M3	9
SCJ-20	20	23.6	8	4	0.8	3.8	M3	20
SCJ-25	25	30.6	10.5	5	1.3	5	M4	35
SCJ-32	32	39	13.5	8	1.6	6.5	M5	75
SCJ-40	40	45.6	16	10	1.9	8	M5	145
SCJA-15C	15	22.4	8	2.5	0.8	3	M2.6	9
SCJA-20C	20	23.6	8	4	0.8	3	M2.6	19
SCJA-25C	25	30.6	10.5	5	1.3	3.6	M3	34
SCJA-32C	32	39	13.5	8	1.6	4.5	M4	72
SCJA-40C	40	45.6	16	10	1.9	6	M5	140
SCJB-15C	15	24.2	8	2.5	1.8	3	M2.6	10
SCJB-20C	20	26.5	8	4	2.2	3	M2.6	20
SCJB-25C	25	33.5	10.5	5	2.8	3.6	M3	35
SCJB-32C	32	43	13.5	8	3.6	4.5	M4	75
SCJB-40C	40	51	16	10	4.5	6	M5	145

◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
2.5	5	6,000	3.3×10 ⁻⁷	200	3.0°	0.3	0
5	10	6,000	1.3×10 ⁻⁶	450	3.0°	0.5	0
10	20	6,000	3.4×10 ⁻⁶	800	3.0°	0.5	0
20	40	5,000	1.2×10 ⁻⁵	1000	3.0°	0.5	0
50	100	4,000	3.3×10 ⁻⁵	1300	3.0°	0.5	0
2.5	5	6,000	3.3×10 ⁻⁷	220	3.0°	0.3	0
5	10	6,000	1.2×10 ⁻⁶	350	3.0°	0.5	0
10	20	6,000	3.3×10 ⁻⁶	800	3.0°	0.5	0
20	40	5,000	1.1×10 ⁻⁵	1000	3.0°	0.5	0
50	100	4,000	3.2×10 ⁻⁵	1400	3.0°	0.5	0
2.5	5	6,000	3.5×10 ⁻⁷	200	7.0°	0.3	0
5	10	5,000	1.3×10 ⁻⁶	300	7.0°	0.5	0
10	20	5,000	3.4×10 ⁻⁶	700	7.0°	0.5	0
20	40	4,500	1.2×10 ⁻⁵	950	7.0°	0.5	0
50	100	3,500	3.3×10 ⁻⁵	1200	7.0°	0.5	0

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H7 / 标准孔径 (公差 H7)										
	Ø3	Ø4	Ø5	Ø6	Ø6.35	Ø8	Ø10	Ø11	Ø12	Ø14	Ø15
SCJA-15	•	•	•	•							
SCJ□-15□	•	•	•	•							
SCJ□-20□		•	•	•	•						
SCJ□-25□			•	•	•	•	•				
SCJ□-32□				•	•	•	•	•	•	•	
SCJ□-40□						•	•	•	•	•	•

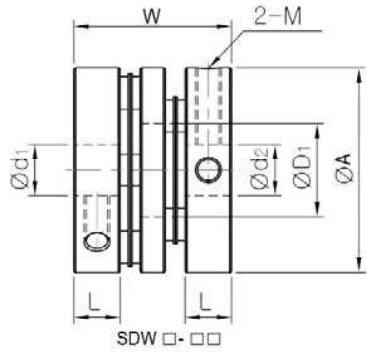
- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔直径 - 请联系我们。
- ◆ Ordering Example 订购例子:

SCJ-15C - **Ø4** x **Ø4**
 ↑ ↑ ↑
 Product No. d₁ d₂
 产品编号

Zero Backlash Disc Coupling

零间隙磁盘型联轴器

◆ SDW□ - □□
Setscrew Type 固定螺钉类型



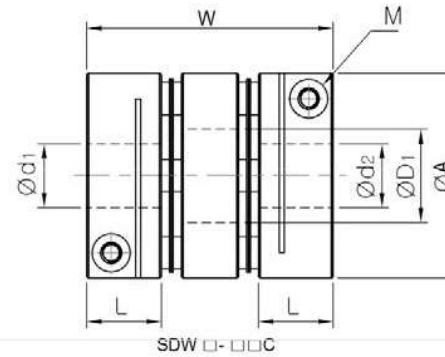
ØA= 16 ~ 19mm

◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)			M	Mass 重量 (g)
	A	W	L		
SDWA-16	16	15.6	5.1	M2.5	6
SDWB-16	16	17.6	5.1	M2.5	7
SDWA-16C	16	21	7.8	M2	9
SDWB-16C	16	23	7.8	M2	10
SDWA-19	19	18	6.1	M3	10
SDWB-19	19	21	6.1	M3	11
SDWA-19C	19	23	8.7	M2.6	14
SDWB-19C	19	26.2	8.7	M2.6	15

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H7 / 标准孔径 (公差 H7)				
	Ø3	Ø4	Ø4.5	Ø5	Ø6
SD□□-16□	•	•	•	•	
SD□□-19□	•	•	•	•	•

◆ SDW□ - □□C
Clamp Type 钳式类型



ØA= 16 ~ 19mm

◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
5	10	12,000	2.2×10 ⁻⁷	200	3.0°	0.2	±0.2
5	10	12,000	2.6×10 ⁻⁷	200	3.0°	0.2	±0.2
5	10	10,000	3.3×10 ⁻⁷	200	3.0°	0.2	±0.2
5	10	10,000	3.7×10 ⁻⁷	200	3.0°	0.2	±0.2
9	18	12,000	5.3×10 ⁻⁷	300	3.0°	0.2	±0.2
9	18	12,000	5.3×10 ⁻⁷	300	3.0°	0.2	±0.2
9	18	10,000	7.4×10 ⁻⁷	300	3.0°	0.2	±0.2
9	18	10,000	7.9×10 ⁻⁷	300	3.0°	0.2	±0.2

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子: **SDWA-16 - Ø4 x Ø5**

↑ ↑ ↑
 Product No. d₁ d₂
 产品编号

Zero Backlash Disc Coupling

零间隙磁盘型联轴器

◆ SDW□ - □□ / SDA - □□
Setscrew Type 固定螺钉类型



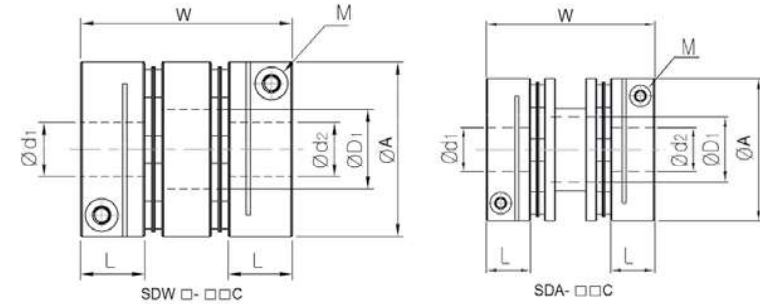
◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)			M	Mass 重量 (g)
	A	W	L		
SDWA-22	22.2	20	6.2	M3 x 2	16
SDWB-22	22.2	22.2	6.2	M3 x 2	17
SDA-22	22.2	28.2	6.2	M3 x 2	18
SDWA-22C	22.2	25	8.7	M2.6	18
SDWB-22C	22.2	27	8.7	M2.6	19
SDA-22C	22.2	33	8.7	M2.6	20
SDWA-26	26.6	26	7.3	M4 x 2	28
SDA-26	26.6	31.5	7.3	M4 x 2	32
SDWA-26C	26.6	32.6	10.7	M3	34
SDA-26C	26.6	38.5	10.7	M3	39

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H7 / 标准孔径 (公差 H7)									
	Ø4	Ø4.5	Ø5	Ø6	Ø6.35	Ø7	Ø8	Ø9	Ø9.525	Ø10
SD□□-22□	•	•	•	•	•					
SD□□-26□	•	•	•	•	•	•	•	•◇	•◇	•◇

◆ Inner diameter that marked ◇ is not available by shaft through types.
所有标示 ◇ 的内孔径均无可让轴穿透的款式。

◆ SDW□ - □□C / SDA - □□C
Clamp Type 钳式类型



◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
11	22	12,000	1.0×10 ⁻⁶	400	2.0°	0.2	±0.2
11	22	12,000	1.1×10 ⁻⁶	400	2.0°	0.3	±0.2
11	22	12,000	1.3×10 ⁻⁶	400	2.0°	0.4	±0.2
11	22	10,000	1.3×10 ⁻⁶	400	2.0°	0.2	±0.2
11	22	10,000	1.4×10 ⁻⁶	400	2.0°	0.3	±0.2
11	22	10,000	1.5×10 ⁻⁶	400	2.0°	0.4	±0.2
15	30	10,000	2.3×10 ⁻⁶	600	2.0°	0.3	±0.3
15	30	10,000	3.2×10 ⁻⁶	600	2.0°	0.4	±0.3
15	30	9,000	3.4×10 ⁻⁶	600	2.0°	0.3	±0.3
15	30	9,000	3.9×10 ⁻⁶	600	2.0°	0.4	±0.3

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

SDA-26 - **Ø6** x **Ø8**
 ↑ ↑ ↑
 Product No. d₁ d₂
 产品编号

Power Transmission
动力传输

Power Transmission
动力传输

Zero Backlash Disc Coupling

零间隙磁盘型联轴器

- ◆ SDW□ - □□ / SDA - □□
Setscrew Type 固定螺钉类型



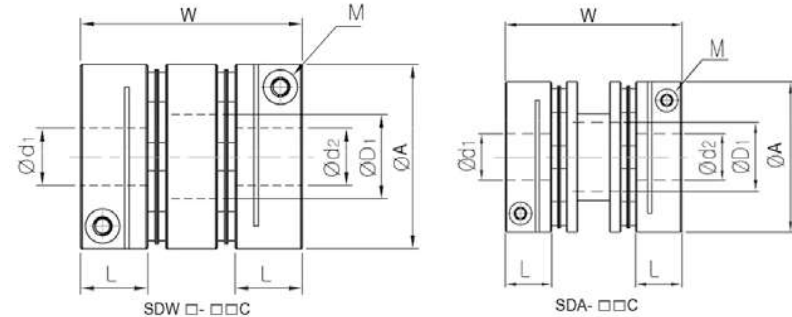
◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)			M	Mass 重量 (g)
	A	W	L		
SDWA-31	31.8	24.5	7	M4 x 2	30
SDWB-31	31.8	29.5	7	M4 x 2	38
SDA-31	31.8	36	7	M4 x 2	38
SDWA-31C	31.8	33.5	11.6	M3	52
SDWB-31C	31.8	38.5	11.6	M3	60
SDA-31C	31.8	44.7	11.6	M3	60
SDWA-39C	39	39	13.6	M4	95
SDWC-39C	39	44.8	13.6	M4	110
SDA-39C	39	56.2	13.6	M4	120
SDWC-42C	42.5	46	13.6	M4	120
SDWC-47C	47	50	16	M4	160
SDWB-54C	54	52	19	M5	250
SDWC-54C	54	58	19	M5	280

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H7 / 标准孔径 (公差 H7)																				
	Ø5	Ø6	Ø6.35	Ø7	Ø8	Ø9	Ø9.525	Ø10	Ø11	Ø12	Ø12.7	Ø14	Ø15	Ø15.875	Ø16	Ø17	Ø18	Ø19	Ø20	Ø24	Ø25
SD□□-31□	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SD□□-39□	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SD□□-42C		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SD□□-47C					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SD□□-54□									•	•	•	•	•	•	•	•	•	•	•	•	•

- ◆ Inner diameter that marked ◊ is not available by shaft through types. 所有标示 ◊ 的内孔径均无可让轴穿透的款型。

- ◆ SDW□ - □□C / SDA - □□C
Clamp Type 钳式类型



◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
30	60	9,000	4.3×10 ⁻⁶	1300	2.0°	0.2	±0.4
30	60	9,000	5.5×10 ⁻⁶	1300	2.0°	0.3	±0.4
30	60	9,000	5.5×10 ⁻⁶	1300	2.0°	0.4	±0.4
30	60	8,500	7.5×10 ⁻⁶	1300	2.0°	0.2	±0.4
30	60	8,500	8.8×10 ⁻⁶	1300	2.0°	0.3	±0.4
30	60	8,500	8.8×10 ⁻⁶	1300	2.0°	0.4	±0.4
50	100	8,000	2.1×10 ⁻⁵	1800	2.0°	0.2	±0.4
50	100	8,000	2.4×10 ⁻⁵	1800	2.0°	0.3	±0.4
50	100	8,000	3.0×10 ⁻⁵	1800	2.0°	0.4	±0.4
60	120	8,000	3.3×10 ⁻⁵	2000	2.0°	0.3	±0.5
100	200	7,000	5.5×10 ⁻⁵	4000	2.0°	0.4	±0.5
220	440	6,000	1.1×10 ⁻⁴	7000	2.0°	0.3	±0.5
220	440	6,000	1.2×10 ⁻⁴	7000	2.0°	0.4	±0.5

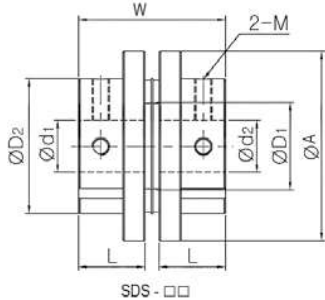
- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子: **SDWA-31C - Ø6 x Ø10**



Zero Backlash Disc Coupling

零间隙磁盘型联轴器

- ◆ SDS - □□ Setscrew Type 固定螺钉类型



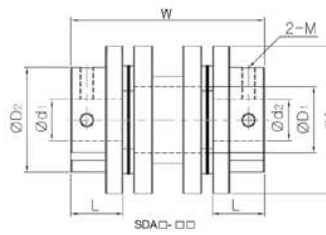
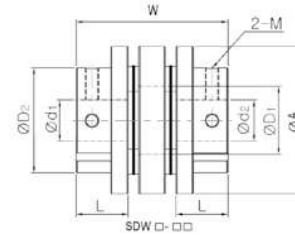
- ◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)					M	Mass 重量 (g)
	A	D1	D2	W	L		
SDS-42	42.5	18	29.2	31	13.5	M4	65
SDWA-42	42.5	18	29.2	39.7	13.5	M4	84
SDWB-42	42.5	18	29.2	44.2	13.5	M4	94
SDAA-42	42.5	18	29.2	50	13.5	M4	105
SDAB-42	42.5	18	29.2	58	13.5	M4	110
SDAC-42	42.5	18	29.2	67.2	13.5	M4	115
SDS-47	47	20.4	33	31.7	14	M5	91
SDWA-47	47	20.4	33	40	14	M5	115
SDWB-47	47	20.4	33	46	14	M5	120
SDAA-47	47	20	33	58.5	14	M5	140
SDAB-47	47	20	33	85	14	M5	160
SDS-54	54	25	38.5	42.2	19	M5	130
SDWA-54	54	25	38.5	55.5	19	M5	177
SDAA-54	54	24	38.5	71	19	M5	230
SDAB-54	54	24	38.5	85	19	M5	250
SDS-64	64	25.5	48	58	26	M8	292
SDWA-64	64	25.5	48	74	26	M8	373
SDA-64	64	25.5	48	89.5	26	M8	450

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)																									
	06	06 ³⁵	07	08	09	09 ²⁵	010	011	012	012.7	014	015	015 ⁰⁷⁵	016	017	018	019	020	021	022	024	025	026	028	030	
SD□□-42	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
SD□□-47					●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
SD□□-54										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
SD□□-64																								●	●	

- ◆ Inner diameter that marked ◊ is not available by shaft through types. 所有标示 ◊ 的内孔径均无让轴穿透的款型。

- ◆ SDW□ - □□ / SDA□ - □□ Setscrew Type 固定螺钉类型



- ◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
60	120	8,000	1.7×10 ⁻⁵	2800	1.5°	0	±0.2
60	120	8,000	2.1×10 ⁻⁵	2000	3.0°	0.2	±0.5
60	120	8,000	2.4×10 ⁻⁵	2000	3.0°	0.3	±0.5
60	120	8,000	2.7×10 ⁻⁵	2000	3.0°	0.4	±0.5
60	120	8,000	2.8×10 ⁻⁵	2000	3.0°	0.5	±0.5
60	120	8,000	2.9×10 ⁻⁵	2000	3.0°	0.6	±0.5
100	200	8,000	2.7×10 ⁻⁵	6000	1.5°	0	±0.2
100	200	8,000	3.4×10 ⁻⁵	4000	3.0°	0.2	±0.5
100	200	8,000	3.6×10 ⁻⁵	4000	3.0°	0.4	±0.5
100	200	8,000	4.2×10 ⁻⁵	4000	3.0°	0.5	±0.5
100	200	8,000	4.7×10 ⁻⁵	4000	3.0°	0.8	±0.5
220	440	7,500	4.9×10 ⁻⁵	11000	1.5°	0	±0.2
220	440	7,500	6.7×10 ⁻⁵	7000	3.0°	0.2	±0.5
220	440	7,500	9.0×10 ⁻⁵	7000	3.0°	0.5	±0.5
220	440	7,500	1.1×10 ⁻⁴	7000	3.0°	0.7	±0.5
310	620	7,000	1.8×10 ⁻⁴	20000	1.5°	0	±0.2
310	620	7,000	2.2×10 ⁻⁴	11000	3.0°	0.3	±0.5
310	620	7,000	2.7×10 ⁻⁴	11000	3.0°	0.5	±0.5

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子: **SDWA-47** - **08** x **012**

Product No.
产品编号

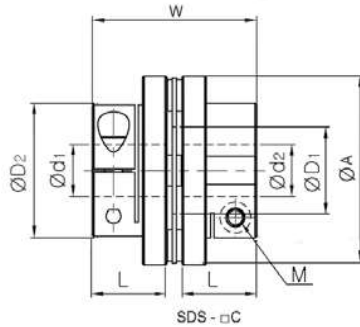
d₁

d₂

Zero Backlash Disc Coupling

零间隙磁盘型联轴器

◆ SDS - □□C
Clamp Type 钳式类型



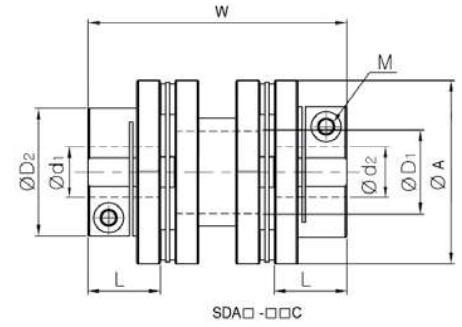
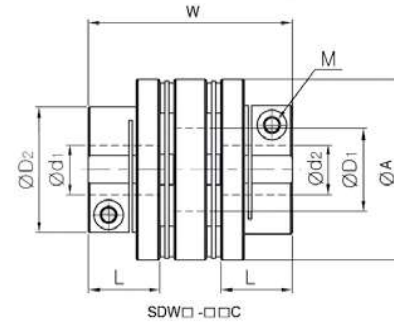
◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)					M	Mass 重量 (g)
	A	D1	D2	W	L		
SDS-42C	42.5	18	29.2	31	13.5	M3	65
SDWA-42C	42.5	18	29.2	39.7	13.5	M3	84
SDWB-42C	42.5	18	29.2	44.2	13.5	M3	94
SDAA-42C	42.5	18	29.2	50	13.5	M3	105
SDAB-42C	42.5	18	29.2	58	13.5	M3	110
SDAC-42C	42.5	18	29.2	67.2	13.5	M3	115
SDS-47C	47	20.4	33	37	16.7	M4	108
SDWA-47C	47	20.4	33	45.5	16.7	M4	120
SDWB-47C	47	20.4	33	51.3	16.7	M4	132
SDAA-47C	47	20	33	63.7	16.7	M4	152
SDAB-47C	47	20	33	90.5	16.7	M4	172
SDS-54C	54	25	38.5	47	21.5	M5	145
SDWA-54C	54	25	38.5	60.5	21.5	M5	192
SDAA-54C	54	24	38.5	75.6	21.5	M5	240
SDAB-54C	54	24	38.5	89.5	21.5	M5	266
SDS-64C	64	25.5	48	58	26	M6	292
SDWA-64C	64	25.5	48	74	26	M6	373
SDA-64C	64	25.5	48	89.5	26	M6	450

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)																									
	Ø6	Ø6 ³⁵	Ø7	Ø8	Ø9	Ø9 ²⁵	Ø10	Ø11	Ø12	Ø12.7	Ø14	Ø15	Ø15 ⁸⁷⁵	Ø16	Ø17	Ø18	Ø19	Ø20	Ø21	Ø22	Ø24	Ø25	Ø26	Ø28	Ø30	
SD□□-42C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
SD□□-47C				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
SD□□-54C							•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
SD□□-64C									•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	

◆ Inner diameter that marked ∅ is not available by shaft through types.
所有标示 ∅ 的内孔径均无可让轴穿透的款式。

◆ SDW□ - □□C / SDA□ - □□C
Clamp Type 钳式类型



◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
60	120	8,000	1.7×10 ⁻⁵	2800	1.5°	0	±0.2
60	120	8,000	2.1×10 ⁻⁵	2000	3.0°	0.2	±0.5
60	120	8,000	2.4×10 ⁻⁵	2000	3.0°	0.3	±0.5
60	120	8,000	2.7×10 ⁻⁵	2000	3.0°	0.4	±0.5
60	120	8,000	2.8×10 ⁻⁵	2000	3.0°	0.5	±0.5
60	120	8,000	2.9×10 ⁻⁵	2000	3.0°	0.6	±0.5
100	200	7,500	3.2×10 ⁻⁵	6000	1.5°	0	±0.2
100	200	7,500	3.6×10 ⁻⁵	4000	3.0°	0.2	±0.5
100	200	7,500	3.9×10 ⁻⁵	4000	3.0°	0.4	±0.5
100	200	7,500	4.5×10 ⁻⁵	4000	3.0°	0.5	±0.5
100	200	7,500	5.1×10 ⁻⁵	4000	3.0°	0.8	±0.5
220	440	7,000	5.5×10 ⁻⁵	11000	1.5°	0	±0.2
220	440	7,000	7.2×10 ⁻⁵	7000	3.0°	0.2	±0.5
220	440	7,000	9.0×10 ⁻⁵	7000	3.0°	0.5	±0.5
220	440	7,000	1.1×10 ⁻⁴	7000	3.0°	0.7	±0.5
310	620	6,500	1.8×10 ⁻⁴	20000	1.5°	0	±0.2
310	620	6,500	2.2×10 ⁻⁴	11000	3.0°	0.3	±0.5
310	620	6,500	2.7×10 ⁻⁴	11000	3.0°	0.5	±0.5

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子: **SDWA-42C** - **Ø8** x **Ø10**

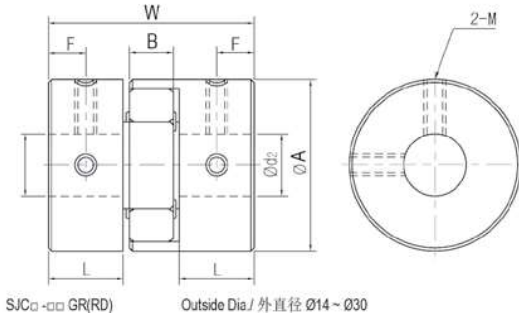


Zero Backlash Jaw Flexible Coupling

零间隙钳夹式弹性联轴器

◆ SJC□-□□GR (RD)
Setscrew Type 固定螺钉类型

(Ø14 ~ Ø40)

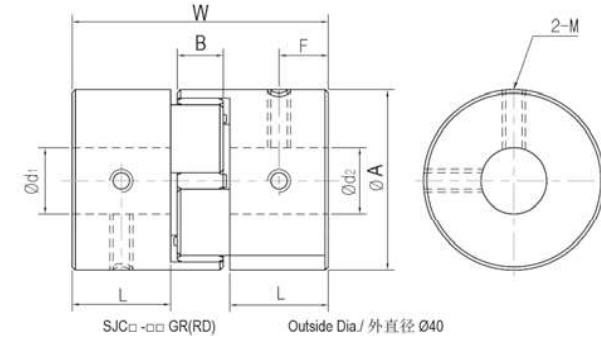


SJC□-□□GR(RD) Outside Dia./外直径 Ø14~Ø30

◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)					M	Fastening Torque 锁紧扭矩 (kgf.cm)	Mass 重量 (g)
	A	W	L	B	F			
SJC-14GR	14	22	7	6	3.5	M3	7	7.3
SJC-20GR	20	30	10	8	5	M3	7	18
SJC-25GR	25	32.5	10	9	5	M4	17	25
SJCA-30GR	30	35	11.3	10	5.5	M4	17	46
SJCB-30GR	30	44	15.8	10	7.7	M4	17	53
SJCA-40GR	40	55	19.5	12	9	M5	40	125
SJCB-40GR	40	66	25	12	11.5	M5	40	150
SJC-14RD	14	22	7	6	3.5	M3	7	7.3
SJC-20RD	20	30	10	8	5	M3	7	18
SJC-25RD	25	32.5	10	9	5	M4	17	25
SJCA-30RD	30	35	11.3	10	5.5	M4	17	46
SJCB-30RD	30	44	15.8	10	7.7	M4	17	53
SJCA-40RD	40	55	19.5	12	9	M5	40	125
SJCB-40RD	40	66	25	12	11.5	M5	40	150

Product Number 产品编号	Stock Bores (D ₁ x D ₂) Tolerance H7 / 标准孔径 (公差 H7)															
	Ø3	Ø4	Ø4.5	Ø5	Ø6	Ø6 ³⁵	Ø7	Ø8	Ø9 ²⁵	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø18
SJC□-14□	●	●	●													
SJC□-20□		●	●	●	●	●	●									
SJC□-25□				●	●	●	●	●	●							
SJC□-30□					●	●	●	●	●	●	●	●				
SJC□-40□							●	●	●	●	●	●	●	●	●	●



SJC□-□□GR(RD) Outside Dia./外直径 Ø40

◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
12	24	27,000	2.1×10 ⁻⁷	14	1.0°	0.15	+0.6/0
30	60	19,000	1.0×10 ⁻⁶	29	1.0°	0.15	+0.8/0
50	100	15,000	2.4×10 ⁻⁶	45	1.0°	0.15	+1.0/0
75	150	13,000	5.9×10 ⁻⁶	73	1.0°	0.15	+1.0/0
75	150	13,000	7.2×10 ⁻⁶	73	1.0°	0.15	+1.0/0
100	200	9,600	3.1×10 ⁻⁵	570	1.0°	0.1	+1.2/0
100	200	9,600	4.0×10 ⁻⁵	570	1.0°	0.1	+1.2/0
20	40	27,000	2.1×10 ⁻⁷	22	1.0°	0.1	+0.6/0
50	100	19,000	1.0×10 ⁻⁶	55	1.0°	0.1	+0.8/0
90	180	15,000	2.4×10 ⁻⁶	80	1.0°	0.1	+1.0/0
125	250	13,000	5.9×10 ⁻⁶	130	1.0°	0.1	+1.0/0
125	250	13,000	7.2×10 ⁻⁶	130	1.0°	0.1	+1.0/0
170	340	9,600	3.1×10 ⁻⁵	1200	1.0°	0.1	+1.2/0
170	340	9,600	4.0×10 ⁻⁵	1200	1.0°	0.1	+1.2/0

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有固定螺钉或有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子: **SDWA-42C** - **Ø8** x **Ø10**

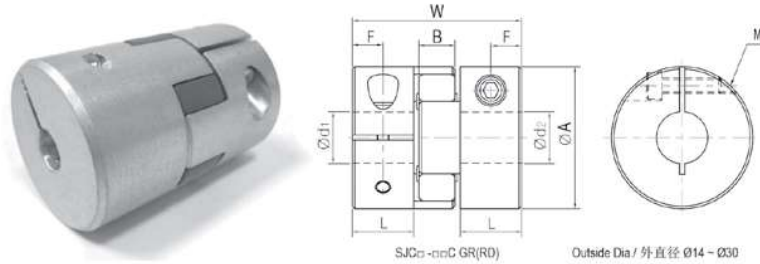


Zero Backlash Jaw Flexible Coupling

零间隙钳夹式弹性联轴器

◆ SJC□ - □□C GR
Clamp Type 钳式类型

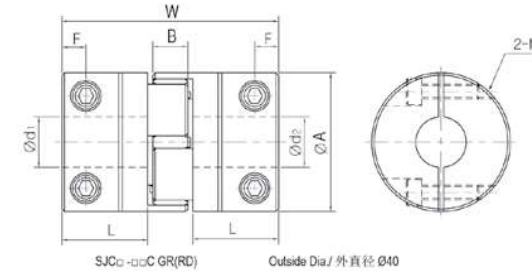
(Ø14 ~ Ø40)



◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)					M	Fastening Torque 锁紧扭矩 (kgf.cm)	Mass 重量 (g)
	A	W	L	B	F			
SJC-14C GR	14	22	7	6	3.5	M2	5	6
SJC-20C GR	20	30	10	8	5	M2.6	10	19
SJC-25C GR	25	32.5	10	9	5	M3	17	25
SJCA-30C GR	30	35	11.3	10	5.5	M4	35	50
SJCB-30C GR	30	44	15.8	10	5.5	M4	35	55
SJCA-40C GR	40	55	19.5	12	6.7	M5	80	135
SJCB-40C GR	40	66	25	12	8.5	M5	80	160
SJC-14C RD	14	22	7	6	3.5	M2	5	6
SJC-20C RD	20	30	10	8	5	M2.6	10	19
SJC-25C RD	25	32.5	10	9	5	M3	17	25
SJCA-30C RD	30	35	11.3	10	5.5	M4	35	50
SJCB-30C RD	30	44	15.8	10	5.5	M4	35	55
SJCA-40C RD	40	55	19.5	12	6.7	M5	80	135
SJCB-40C RD	40	66	25	12	8.5	M5	80	160

Product Number 产品编号	Stock Bores (D ₁ x D ₂) Tolerance H8 / 标准孔径 (公差 H8)															
	Ø3	Ø4	Ø4.5	Ø5	Ø6	Ø6 ³⁵	Ø7	Ø8	Ø9 ²⁵	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø18
SJC□-14C	•	•	•													
SJC□-20C		•	•	•	•	•	•									
SJC□-25C				•	•	•	•	•	•							
SJC□-30C					•	•	•	•	•	•	•	•	•			
SJC□-40C								•	•	•	•	•	•	•	•	•



◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
12	24	12,000	1.6×10 ⁻⁷	14	1.0°	0.15	+0.6/0
30	60	11,000	1.1×10 ⁻⁶	29	1.0°	0.15	+0.8/0
50	100	10,000	2.4×10 ⁻⁶	45	1.0°	0.15	+1.0/0
75	150	10,000	6.2×10 ⁻⁶	73	1.0°	0.15	+1.0/0
75	150	10,000	7.5×10 ⁻⁶	73	1.0°	0.15	+1.0/0
100	200	8,500	3.1×10 ⁻⁵	570	1.0°	0.1	+1.2/0
100	200	8,500	3.9×10 ⁻⁵	570	1.0°	0.1	+1.2/0
20	40	12,000	1.6×10 ⁻⁷	22	1.0°	0.1	+0.6/0
50	100	11,000	1.1×10 ⁻⁶	55	1.0°	0.1	+0.8/0
90	180	10,000	2.4×10 ⁻⁶	80	1.0°	0.1	+1.0/0
125	250	10,000	6.2×10 ⁻⁶	130	1.0°	0.1	+1.0/0
125	250	10,000	7.5×10 ⁻⁶	130	1.0°	0.1	+1.0/0
170	340	8,500	3.1×10 ⁻⁵	1200	1.0°	0.1	+1.2/0
170	340	8,500	3.9×10 ⁻⁵	1200	1.0°	0.1	+1.2/0

- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

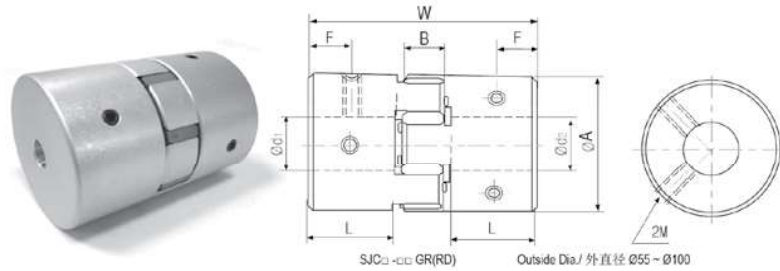
SJC-20C GR - Ø6 x Ø8
 ↑ ↑ ↑
 Product No. d₁ d₂
 产品编号

Zero Backlash Jaw Flexible Coupling

零间隙钳夹式弹性联轴器

◆ SJC□-□□GR (RD)
Setscrew Type 固定螺钉类型

(Ø55 ~ Ø100)



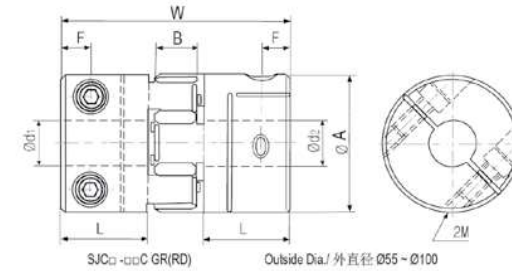
◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)					M	Fastening Torque 锁紧扭矩 (kgf.cm)	Mass 重量 (g)
	A	W	L	B	F			
SJC-55 GR	55	78	30	14	14	M6	70	350
SJC-65 GR	65	90	35	15	17	M8	150	570
SJC-80 GR	80	114	45	18	22	M8	150	1150
SJC-100 GR	104	140	56	21	27	M10	250	2650
SJC-55C GR	55	78	30	14	10.5	M6	130	330
SJC-65C GR	65	90	35	15	13	M8	300	560
SJC-80C GR	80	114	45	18	15	M8	300	1050
SJC-100C GR	104	140	56	21	20	M12	900	2550
SJC-55 RD	55	78	30	14	14	M6	70	350
SJC-65 RD	65	90	35	15	17	M8	150	570
SJC-80 RD	80	114	45	18	22	M8	150	1150
SJC-100 RD	104	140	56	21	27	M10	250	2650
SJC-55C RD	55	78	30	14	10.5	M6	130	330
SJC-65C RD	65	90	35	15	13	M8	300	560
SJC-80C RD	80	114	45	18	15	M8	300	1050
SJC-100C RD	104	140	56	21	20	M12	900	2550

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)																		
	Ø12	Ø14	Ø15	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø26	Ø28	Ø30	Ø32	Ø35	Ø40	Ø45	Ø50	Ø60
SJC-55□	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
SJC-65□			•	•	•	•	•	•	•	•	•	•	•	•	•				
SJC-80□			•	•	•	•	•	•	•	•	•	•	•	•	•	•			
SJC-100□							•	•	•	•	•	•	•	•	•	•	•	•	•

◆ SJC□ - □□C GR
Clamp Type 钳式类型

(Ø55 ~ Ø100)



◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
350	700	7,500	1.7×10 ⁻⁴	1,600	1.0°	0.15	+1.4/0
950	1,900	6,000	3.9×10 ⁻⁴	3,000	1.0°	0.15	+1.5/0
1900	3,800	5,000	1.1×10 ⁻³	6,500	1.0°	0.15	+1.5/0
3000	6,000	4,000	4.8×10 ⁻³	7,000	1.0°	0.15	+2.0/0
350	700	6,500	1.6×10 ⁻⁴	1,600	1.0°	0.15	+1.4/0
950	1,900	5,500	3.8×10 ⁻⁴	3,000	1.0°	0.15	+1.5/0
1900	3,800	4,500	1.0×10 ⁻³	6,500	1.0°	0.15	+1.5/0
3000	6,000	3,500	4.6×10 ⁻³	7,000	1.0°	0.15	+2.0/0
600	1,200	7,500	1.7×10 ⁻⁴	2,600	1.0°	0.1	+1.4/0
1600	3,200	6,000	3.9×10 ⁻⁴	4,900	1.0°	0.1	+1.5/0
3200	6,400	5,000	1.1×10 ⁻³	11,000	1.0°	0.1	+1.5/0
6000	12,000	4,000	4.8×10 ⁻³	30,000	1.0°	0.1	+2.0/0
600	1,200	6,500	1.6×10 ⁻⁴	2,600	1.0°	0.1	+1.4/0
1600	3,200	5,500	3.8×10 ⁻⁴	4,900	1.0°	0.1	+1.5/0
3200	6,400	4,500	1.0×10 ⁻³	11,000	1.0°	0.1	+1.5/0
6000	12,000	3,500	4.6×10 ⁻³	30,000	1.0°	0.1	+2.0/0

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

SJC-80C RD - Ø16 x Ø20
 ↑ ↑ ↑
 Product No. d₁ d₂
 产品编号

Power Transmission
动力传输

Power Transmission
动力传输

Zero Backlash Jaw Flexible Coupling

零间隙钳夹式弹性联轴器

- ◆ SJCM - □□C GR (RD)
Clamp Type 钳式类型

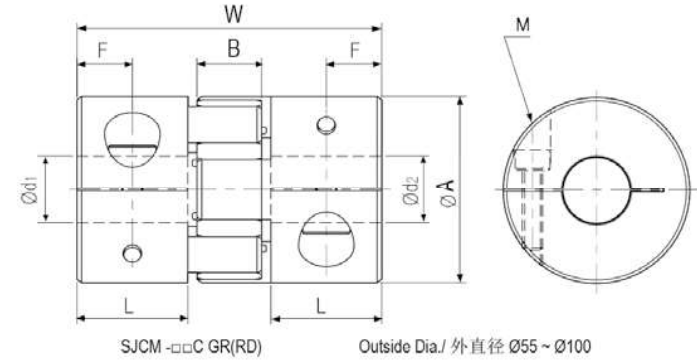


SJCM - □□C GR(RD)

◆ Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)					M	Fastening Torque 锁紧扭矩 (kgf.cm)	Mass 重量 (g)
	A	W	L	B	F			
SJCM-55C GR	55	59	21	14	10.5	M6	130	280
SJCM-65C GR	65	63	22	15	11	M8	300	400
SJCM-80C GR	80	88	32	18	16	M10	500	860
SJCM-100C GR	104	94	34	21	17.5	M12	900	1700
SJCM-55C RD	55	59	21	14	10.5	M6	130	280
SJCM-65C RD	65	63	22	15	11	M8	300	400
SJCM-80C RD	80	88	32	18	16	M10	500	860
SJCM-100C RD	104	94	34	21	17.5	M12	900	1700

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)																		
	Ø12	Ø14	Ø15	Ø16	Ø18	Ø19	Ø20	Ø22	Ø24	Ø25	Ø26	Ø28	Ø30	Ø32	Ø35	Ø40	Ø45	Ø50	Ø60
SJCM-55C	•	•	•	•	•	•	•	•	•	•	•	•							
SJCM-65C			•	•	•	•	•	•	•	•	•	•	•	•	•				
SJCM-80C			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
SJCM-100C						•	•	•	•	•	•	•	•	•	•	•	•	•	•



◆ Unit 单位: mm 毫米

Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg. m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
					Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
350	700	4,000	1.3×10 ⁻⁴	1,600	1.0°	0.15	+1.4/0
950	1,900	3,500	2.6×10 ⁻⁴	3,000	1.0°	0.15	+1.5/0
1,900	3,800	3,000	8.7×10 ⁻⁴	6,500	1.0°	0.15	+1.5/0
3,000	6,000	3,000	3.1×10 ⁻³	7,000	1.0°	0.15	+2.0/0
600	1,200	4,000	1.3×10 ⁻⁴	2,600	1.0°	0.1	+1.4/0
1,600	3,200	3,500	2.6×10 ⁻⁴	4,900	1.0°	0.1	+1.5/0
3,200	6,400	3,000	8.7×10 ⁻⁴	11,000	1.0°	0.1	+1.5/0
6,000	12,000	3,000	3.1×10 ⁻³	30,000	1.0°	0.1	+2.0/0

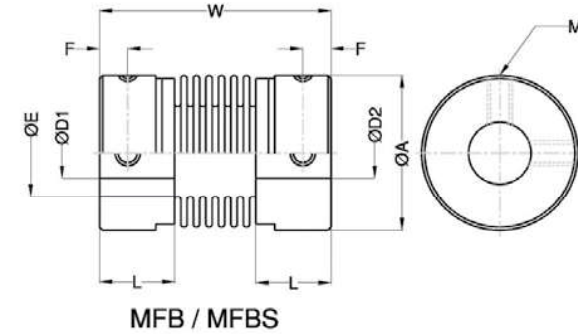
- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

SJC-20C GR - **Ø6** x **Ø8**
 ↑ ↑ ↑
 Product No. D₁ D₂
 产品编号

Miniature Bellows Flexible Coupling

微型波纹挠性联轴器

◆ MFB - □□ / MFBS - □□
Setscrew Type 固定螺钉类型



MFB / MFBS

◆ Measurements & Specifications 测量尺寸与规格

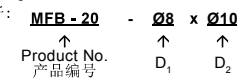
Product Number 产品编号	Dimension 测量尺寸 (±0.3)						M	Fastening Torque 锁紧扭矩 (kgf.cm)	Mass 重量 (g)
	A	W	L	E	F	G			
MFB-12	12	23.5	7.5	7	2.5	-	M2.5	5	4.1
MFB-16	16	26.5	9	9.5	3	-	M3	7	9
MFB-20	20	32	10	12.5	3.5	-	M3	7	16
MFB-25	25	36.5	12	15	4.5	-	M4	17	32
MFB-32	32	42	13.5	21	5.5	-	M4	17	57
MFBS-12	12	23.5	7.5	7	2.5	-	M2.5	5	4.1
MFBS-16	16	26.5	9	9.5	3	-	M3	7	9
MFBS-20	20	32	10	12.5	3.5	-	M3	7	16
MFBS-25	25	36.5	12	15	4.5	-	M4	17	32
MFBS-32	32	42	13.5	21	5.5	-	M4	17	57

Product Number 产品编号	Stock Bores (D ₁ x D ₂) Tolerance H8 / 标准孔径 (公差 H8)											
	Ø3	Ø4	Ø4.5	Ø5	Ø6	Ø6.35	Ø8	Ø9.525	Ø10	Ø11	Ø12	Ø14
MFB(S)-12	•	•	•	•	•	•						
MFB(S)-16		•	•	•	•	•	•					
MFB(S)-20				•	•	•	•	•	•			
MFB(S)-25					•	•	•	•	•	•	•	
MFB(S)-32						•	•	•	•	•	•	•

◆ Unit 单位: mm 毫米

Max Inner Diameter 最大内径 (mm)	Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
						Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
6.35	3	6	32,000	9.0×10 ⁻⁸	82	1.5°	0.10	+0.4/-1.2
8	5	10	24,000	3.5×10 ⁻⁷	110	1.5°	0.10	+0.4/-1.2
10	8	16	19,000	9.9×10 ⁻⁷	180	2.0°	0.15	+0.6/-1.8
12	13	26	15,000	3.1×10 ⁻⁶	240	2.0°	0.15	+0.6/-1.8
16	20	40	12,000	9.2×10 ⁻⁶	330	2.0°	0.20	+0.8/-2.5
6.35	5	10	32,000	2.1×10 ⁻⁷	100	1.5°	0.10	+0.4/-1.2
8	10	20	24,000	8.0×10 ⁻⁷	150	1.5°	0.10	+0.4/-1.2
10	15	30	19,000	2.3×10 ⁻⁶	220	2.0°	0.15	+0.6/-1.8
12	20	40	15,000	7.0×10 ⁻⁶	330	2.0°	0.15	+0.6/-1.8
16	30	60	12,000	2.1×10 ⁻⁵	490	2.0°	0.20	+0.8/-2.5

- ◆ All products come with cap screws. 所有的产品均附有固定螺钉。
- ◆ Hubs with shaft bores diameters of Ø4 or less have only one setscrew. 有轴的插孔直径等于或小于4的只有一个固定螺钉。
- ◆ Tolerance on shaft bores of setscrew type coupling is H8. 固定螺钉型联轴器的孔径公差为H8。
- ◆ Recommended tolerance on shaft diameters is H6 & H7. 轴心直径的推荐公差为H6和H7。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Moment of inertia and mass figures based on the maximum shaft bores. 转动惯性和质量数值是基于轴心钻孔的最大值。
- ◆ Ordering Example 订购例子: **MFB - 20** - **Ø8** x **Ø10**



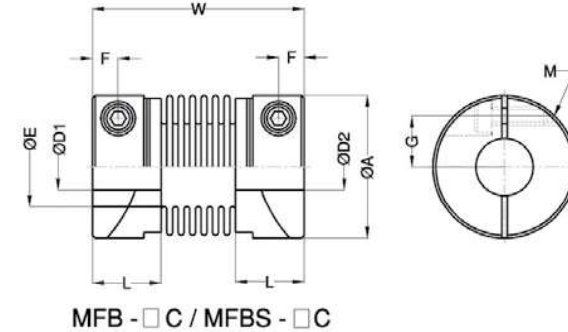
Power Transmission
动力传输

Power Transmission
动力传输

Miniature Bellows Flexible Coupling

微型波纹挠性联轴器

◆ MFB - □□C / MFBS - □□C
Clamp Type 钳式类型



◆ Measurements & Specifications 测量尺寸与规格

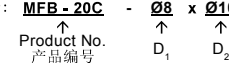
Product Number 产品编号	Dimension 测量尺寸 (±0.3)						M	Fastening Torque 锁紧扭矩 (kgf.cm)	Mass 重量 (g)
	A	W	L	E	F	G			
MFB-12C	12	23.5	7.5	7	2.25	4	M2	5	3.8
MFB-16C	16	26.5	9	9.5	3	5	M2.5	10	9.8
MFB-20C	20	32	10	12.5	3.5	6.5	M2.5	10	16
MFB-25C	25	36.5	12	15	4.5	9	M3	15	32
MFB-32C	32	42	13.5	21	5	11	M4	25	58
MFBS-12C	12	23.5	7.5	7	2.25	4	M2	5	9.2
MFBS-16C	16	26.5	9	9.5	3	5	M2.5	10	22
MFBS-20C	20	32	10	12.5	3.5	6.5	M2.5	10	38
MFBS-25C	25	36.5	12	15	4.5	9	M3	15	74
MFBS-32C	32	42	13.5	21	5	11	M4	25	130

Product Number 产品编号	Stock Bores (D ₁ x D ₂) Tolerance H8 / 标准孔径 (公差 H8)											
	Ø3	Ø4	Ø4.5	Ø5	Ø6	Ø6.35	Ø8	Ø9.525	Ø10	Ø11	Ø12	Ø14
MFB(S)-12□		•	•	•								
MFB(S)-16□				•	•	•						
MFB(S)-20□					•	•	•					
MFB(S)-25□						•	•	•	•			
MFB(S)-32□							•	•	•		•	•

◆ Unit 单位: mm 毫米

Max Inner Diameter 最大内径 (mm)	Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
						Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
5	3	6	13,000	9.7×10 ⁻⁸	82	1.5°	0.10	+0.4/-1.2
6.35	5	10	9,500	3.7×10 ⁻⁷	110	1.5°	0.10	+0.4/-1.2
8	8	16	7,700	1.0×10 ⁻⁶	180	2.0°	0.15	+0.6/-1.8
10	13	26	6,100	3.1×10 ⁻⁶	240	2.0°	0.15	+0.6/-1.8
14	20	40	4,800	9.6×10 ⁻⁶	330	2.0°	0.20	+0.8/-2.5
5	5	10	13,000	2.1×10 ⁻⁷	100	1.5°	0.10	+0.4/-1.2
6.35	10	20	9,500	8.1×10 ⁻⁷	150	1.5°	0.10	+0.4/-1.2
8	15	30	7,700	2.3×10 ⁻⁶	220	2.0°	0.15	+0.6/-1.8
10	20	40	6,100	6.9×10 ⁻⁶	330	2.0°	0.15	+0.6/-1.8
14	30	60	4,800	2.1×10 ⁻⁵	490	2.0°	0.20	+0.8/-2.5

- All products come with cap screws. 所有的产品均附有帽螺丝。
- Hubs with shaft bores diameters of Ø4 or less have only one setscrew. 有轴的插孔直径等于或小于4的只有一个固定螺钉。
- Tolerance on shaft bores of setscrew type coupling is H8. 固定螺钉型联轴器的孔径公差为H8。
- Recommended tolerance on shaft diameters is H6 & H7. 轴心直径的推荐公差为H6和H7。
- Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- Moment of inertia and mass figures based on the maximum shaft bores. 转动惯性和质量数值是基于轴心钻孔的最大值。
- Ordering Example 订购例子: **MFB - 20C** - **Ø8** x **Ø10**



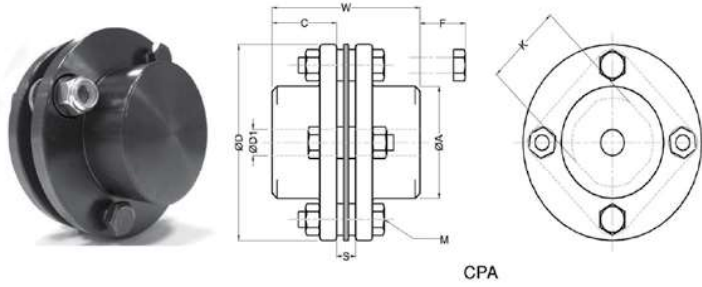
Power Transmission
动力传输

Power Transmission
动力传输

High Torque Servoflex Coupling

高扭矩膜片联轴器

- ◆ CPA Steel Plain Type 普通钢铁类型



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

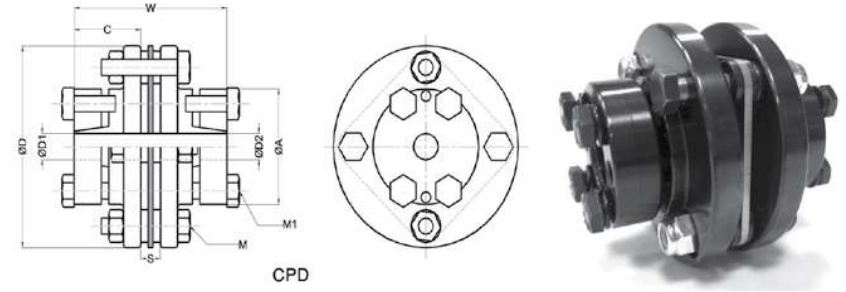
Product Number 产品编号	D	A	W	C	S	F	M	K	Stock Bores 标准孔径	
									Min D1	Max D1
CPA-68	68	40	56	25	6	13	M6 x 4	28	7	25
CPA-82	82	54	56.2	25	6.2	13	M6 x 4	34	12	35
CPA-94	94	58	69.6	30	9.6	23	M8 x 4	40	12	38
CPA-104	104	68	76	33	10	20	M8 x 4	42	20	42
CPA-126	126	78	91	40	11	25	M10 x 4	50	20	50
CPA-144	144	88	102	45	12	20	M10 x 4	57	20	60
CPA-168	168	104	164	75	14	-	M10 x 6	108	30	70
CPA-180	180	120	176	80	16	-	M10 x 6	115	30	85

Unit 单位: mm

Product Number 产品编号	D	A	W	C	S	F	M	M1	Stock Bores 标准孔径	
									Min D1	Max D2
CPD-68	68	40	56	25	6	-	M6 x 4	M6 x 4	12	20
CPD-82	82	54	66.2	30	6.2	-	M6 x 4	M6 x 4	15	30
CPD-94	94	58	79.6	35	9.6	-	M8 x 4	M6 x 6	20	35
CPD-104	104	68	90	40	10	-	M8 x 4	M8 x 4	20	38

Product No. 产品编号	Stock Bores (D1 x D2) Tolerance H8 / 标准孔径公差 H8												
	Ø12	Ø15	Ø16	Ø19	Ø20	Ø22	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38
CPD-68	•	•	•	•	•								
CPD-82		•	•	•	•	•	•			•			
CPD-94				•	•	•	•	•	•	•	•		
CPD-104				•	•	•	•	•	•	•	•	•	•

- ◆ CPD Steel Clamp Type 钢铁固定螺钉类型



◆ Specifications 规格

Product Number 产品编号	Rated Torque 常用扭矩 (N.m)	Max Rotational Frequency 最高回转数 (min ⁻¹)	Spring Constant 弹簧定数 (N.m/rad)	Axial Spring Constant 轴向弹簧定数 (N/mm)	Errors of Shaft End Play 容许向位差 (mm)	Moment of Inertia 惯性 (kg.m ²)	Max Shaft Load 最大轴装载 (N)	Mass 质量 (g)
CPA-68	39	20000	24525	45.1	+0.8 -0.8	0.0003	7.8	500
CPA-82	79	17000	80442	58.9	+1.0 -1.0	0.00087	22.6	1000
CPA-94	177	15000	147150	122.6	+1.2 -1.2	0.0016	44.1	1400
CPA-104	245	13000	235440	166.8	+1.4 -1.4	0.0026	58.9	2100
CPA-126	442	10000	412020	218.8	+1.6 -1.6	0.0065	107.9	3400
CPA-144	785	9000	706320	307.1	+1.8 -1.8	0.0099	196.2	4900
CPA-168	1177	5100	171675	54.0	+1.0 -1.0	0.0238	294.3	9600
CPA-180	1962	4800	233478	58.9	+1.0 -1.0	0.0365	490.5	12500

◆ Specifications / 规格

Product Number 产品编号	Rated Torque 常用扭矩 (N.m)	Max Rotational Frequency 最高回转数 (min ⁻¹)	Spring Constant 弹簧定数 (N.m/rad)	Axial Spring Constant 轴向弹簧定数 (N/mm)	Errors of Shaft End Play 容许向位差 (mm)	Moment of Inertia 惯性 (kg.m ²)	Max Shaft Load 最大轴装载 (N)	Mass 质量 (g)
CPD-68	39	20000	24525	45.1	+0.8 -0.8	0.0003	7.8	500
CPD-82	79	17000	80442	58.9	+1.0 -1.0	0.00087	22.6	1000
CPD-94	177	15000	147150	122.6	+1.2 -1.2	0.0016	44.1	1400
CPD-104	245	13000	235440	166.8	+1.4 -1.4	0.0026	58.9	2100

- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

CPA-82 - **Ø15** x **Ø30**
 ↑ ↑ ↑
 Product No. D₁ D₂
 产品编号

Gum Type Flexible Coupling

防震橡胶型弹性联轴器

- ◆ SGF - □□C
Clamp Type 钳式类型



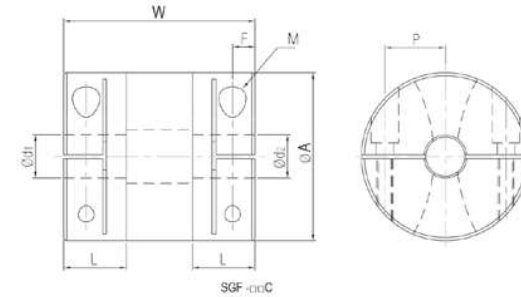
Measurements & Specifications 测量尺寸与规格

Product Number 产品编号	Dimension 测量尺寸 (±0.3)					M	Fastening Torque 锁紧扭矩 (kgf.cm)	Mass 重量 (g)
	A	W	L	F	P			
SGF-14C	14	22.4	6.7	2.15	4.5	M1.6	2.5	8
SGF-18C	18	25.5	7.95	2.7	6.1	M2	5	12
SGF-24C	24	31.2	9.6	3.3	8.5	M2.6	10	28
SGF-29C	29	35	11	4	10.5	M3	17	50
SGF-33C	33	37	12	4	11.75	M3	17	70
SGF-38C	38	47	15.5	4.55	14	M4	35	112
SGF-43C	43	48	15	4.75	15.5	M4	35	140
SGF-55C	55	59	19.5	5.5	18.5	M5	80	310

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)																		
	Ø3	Ø4	Ø4.5	Ø5	Ø6	Ø6.35	Ø7	Ø8	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø17	Ø19	Ø20	Ø24	Ø25
SGF-14C	•	•	•	•	•														
SGF-18C		•		•	•	•	•	•											
SGF-24C				•	•	•		•	•	•	•								
SGF-29C					•			•	•	•	•	•							
SGF-33C								•	•	•	•	•	•						
SGF-38C								•	•		•	•	•	•	•	•	•		
SGF-43C									•		•	•	•	•	•	•	•		
SGF-55C											•	•	•	•	•	•	•	•	•

- ◆ All SGF products include Six-angle Wench Bolt. 所有产品皆附有内六角螺栓。
- ◆ Recommended tolerance of shaft is H7. 适用轴径的容许公差建议使用H7。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

SGF-33C - **Ø10** x **Ø15**
 ↑ ↑ ↑
 Product No. d₁ d₂
 产品编号



- ◆ Unit 单位: mm 毫米

Max Inner Diameter 最大内径 (mm)	Rated Torque 最常用扭矩 (kgf.cm)	Max. Torque 最大扭矩 (kgf.cm)	Max. RPM 最高回转数 (min ⁻¹)	Moment of Inertia 惯性 (kg.m ²)	Static Torsional Stiffness 刚性 (N.m/rad)	Errors of Mis-alignment 偏移误差		
						Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
6	10	20	42,000	1.6×10 ⁻⁷	41	1.5°	0.15	±0.2
8	19	38	33,000	3.9×10 ⁻⁷	84	1.5°	0.15	±0.2
12	35	70	25,000	1.5×10 ⁻⁶	162	1.5°	0.15	±0.2
15	57	114	21,000	3.9×10 ⁻⁶	209	1.5°	0.20	±0.3
16	70	140	18,000	7.2×10 ⁻⁶	370	1.5°	0.20	±0.3
20	120	240	16,000	1.4×10 ⁻⁵	479	1.5°	0.20	±0.3
22	160	320	14,000	2.4×10 ⁻⁵	610	1.5°	0.20	±0.3
28	315	630	11,000	8.6×10 ⁻⁵	1,430	1.5°	0.20	±0.3

- ◆ Adjustment of Torque according to Temperature 根据温度修正系数

Ambient temperature 周围温度	-20°C ~ 30°C	30°C ~ 40°C	40°C ~ 60°C	60°C ~ 80°C
Correction value 温度修正系数	1	0.8	0.7	0.55

Maximum torque and rated torque should be not checked by load fluctuation. When ambient temperature exceeds 30°C, maximum torque and rated torque should be checked by the correction value chart above. Operational temperature is from -20°C to 80°C.

负荷量变动时，并不需要调整额定扭矩及最大扭矩。但周围环境温度高于30°C时，请依据上表的温度修正系数进行修正。SGF联轴器的适用温度是20°C ~ 80°C。

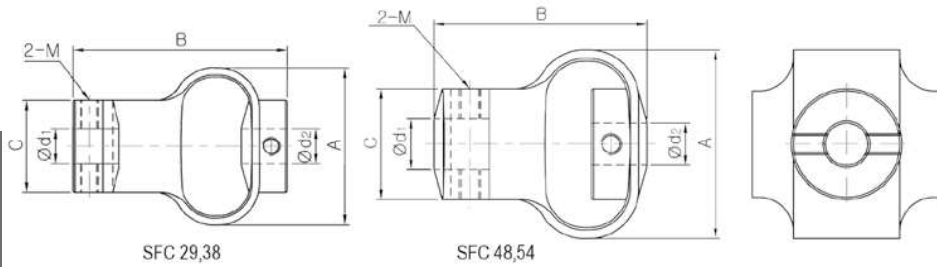
Power Transmission
动力传输

Power Transmission
动力传输

Flexible Coupling

挠性联轴器

◆ SFC
Setscrew Type 固定螺钉类型



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Product Number 产品编号	Dimension 测量尺寸 (±0.3)			Mass 重量 (g)	Max. RPM 最高回转数 (min ⁻¹)	Max. Torque 最大扭矩 (kgf.cm)	Errors of Mis-alignment 偏移误差		
	A	B	C				Angle 角度 (°)	Parallel 平行 (mm)	End-Play 终端 (mm)
SFC-29	29	28	18	19	3,000	3.5	10°	2.0	±1.5
SFC-38	38	35	22.5	38	3,000	13.5	10°	2.5	±2.0
SFC-48	48	50	26	60	3,000	18.0	12°	2.5	±2.0
SFC-54	54	58	29.5	140	3,000	45.0	12°	3.0	±2.0

Product Number 产品编号	Stock Bores (d ₁ x d ₂) Tolerance H8 / 标准孔径 (公差 H8)								
	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12	Ø14	Ø15	Ø16
SFC-29	•	•	•	•	•				
SFC-38			•	•	•	•			
SFC-48				•	•	•	•		
SFC-54					•	•	•	•	•

- ◆ All setscrew type products come with setscrews. 所有固定螺钉类产品均附有固定螺钉。
- ◆ All clamp type products come with cap screws. 所有钳式类产品均附有帽螺丝。
- ◆ Non-standard shaft bores can be custom-made - Please contact us. 可制造非标准轴孔径 - 请联系我们。
- ◆ Ordering Example 订购例子:

SFC-29 - **Ø6** x **Ø10**
 ↑ ↑ ↑
 Product No. d₁ d₂
 产品编号

Clamp Lock

夹钳锁



Definition & Usage

A clamp lock is a device used to join, grip, support, or compress mechanical or structural parts.

Clamp locks are used frictionally to clamp gears, pulleys, flywheels, and other components to the shaft without the need for threads and keys.

Clamp locks usually fit between the component to be locked and the shaft.

The component being locked has a through bore or a counter bore for the locking device. The component fits over the shaft and the locking device fits over the component hub projection. The locking device exerts a radial force that transmits the hub and onto the shaft, frictionally locking the component in place.

Under the action of axial force, Inner outer sleeves keep close to axis and hub and produce frictional force, thus transferring torque and axial force to attain the goal of machine running.

定义与用途

夹钳锁是用来连接、夹紧、支撑或压缩机械部件或结构部件的装置。

夹钳锁是用于夹钳齿轮、带轮、调速轮和其他组件的磨擦性作用，且不需要螺纹或钥匙。

夹钳锁通常都是套在需要锁紧的组件与轴心之间。

需要锁紧的组件有直通的孔或用于锁紧装置的孔。此组件套在轴心上而锁紧装置套在组件的中心位置上。

锁紧装置使轴向力传送到中心与轴上，磨擦性就间接锁紧了组件的位置。

在轴向力的作用下，内部的外在套筒向周和轴心靠拢并产生磨擦力量，因此传送扭矩和轴向力来达到机械运转的目的。

The properties of clamp locks include:

- Strong Load carrying ability
- Perfect centricity
- Easy assembly/ disassembly
- Long service life

These properties enable clamp locks to be used in a lot of applications.

Some common applications of clamp locks are in Bevel Gear set assemblies, index wheel, pulley assemblies, drum and timing pulleys.

夹钳锁的属性包括:

- 强大的负载运输力
- 完美的中心性
- 安装/ 拆卸简便
- 使用寿命长

这些属性使夹钳锁能有多方不同的应用。夹钳锁一般常用于锥齿轮部件、分齿轮、齿轮部件、鼓轮及同步齿轮。

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▶ Page 128

TLK 110

- Self-centering 自定中心
- Medium-high torque 中高度扭矩
- Available from 6mm to 130mm diameter 直径从6mm至130mm
- Restricted radial load 有限径向负载



▶ Page 130

TLK 130

- Self-centering 自定中心
- High torque 高度扭矩
- Available from 20mm to 180mm diameter 直径从20mm至180mm
- Quick Installation Time 快速安装时间



▶ Page 132

TLK 132

- Self-centering 自定中心
- Medium-high torque 中高度扭矩
- Available from 20mm to 200mm diameter 直径从20mm至200mm



▶ Page 134

TLK 134

- Self-centering 自定中心
- Medium torque 中度扭矩
- Available from 14mm to 50mm diameter 直径从14mm至50mm



▶ Page 136

TLK 200

- Not self-centering 非自定中心
- Medium-high torque 中高度扭矩
- Available from 20mm to 900mm diameter 直径从20mm至900mm
- Easy dismantling 拆除简便



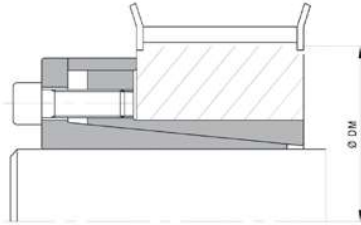
▶ Page 138

TLK 450

- Self-centering 自定中心
- Very high torque 超高度扭矩
- Available from 25mm to 400mm diameter 直径从20mm至180mm
- Even distribution of pressure 压力平均分布

Self-centering Clamping Unit -TLK 110

自定中心型单一式夹钳



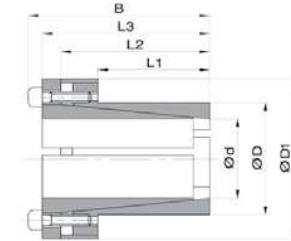
Characteristics 特征	Medium-high torque Limited installation time Restricted hub diameter Very low surface pressure	中-高度扭矩 安装时间有限 中心直径受限 超低表面压力
Installation 安装	Carefully clean the hub and shaft contact surfaces and apply a light oil film. Slide the clamping unit into the hub bore, insert the shaft and tighten all screws gradually and regularly in crossed sequence to reach the tightening torque Ms as indicated in the table. The values Mt and F ass indicated in the table are valid only in the case of oil installation. Do not use any oil with molibdenum bisulphide or high pressure additives and no grease. Above substances notably reduce the friction coefficient.	小心清洗中心和轴接触的表面并打上一层薄油。滑动夹钳体进入中心孔，插入轴并逐渐地扭紧所有的螺丝，有次序的交叉进入达到紧缚扭矩 Ms 如表中所示。表格中所示的数值 Mt 和 F ass 只有在油性安装的情况下才有效。不可把油和二硫化物、高压添加剂和油脂混用。以上物质明显地减低了摩擦系数。
Dismantling 拆除	Loosen the clamping screws. Insert the screws into the dismantling threading and tighten gradually and regularly in crossed sequence until the bottom cone is released. If the element is to be reused, relubricate both screws and threadings.	松开夹钳螺丝。插入螺丝到螺纹线，逐渐扭紧并有次序地交叉直到锥形底部释放。如果元件要重复使用，需重新润滑所有的螺丝和螺纹线。
Tolerances, surface finish 公差，表面磨光	A good surface finish by machine tool is sufficient. Maximum allowable surface finish: R_a max 16µm Maximum permissible tolerances: h8 for shaft H8 for hub	好的表面磨光需要足够的机械工具加工。 最大允许的表面磨光: R_a max 16 µm 最大可允许的公差: 轴h8 中心H8
Centering 定置中心	Model TLK 110 is self-centering . Without centering guide between shaft hub the concentricity error varies 0,02 mm to 0,04 mm (T.I.R.) .	TLK 110型是自定中心。 在轴和中心之间没有自定中心操纵的同心偏差变化从0,02mm 到 0,04mm (T. I. R.)
Axial Movement 轴向运动	TLK 110: During screw tightening the hub has no axial movement with respect to the shaft.	TLK110: 自定中心 在螺丝的扭紧过程中，中心没有相对于轴的轴向运动。
D_h Hub Calculation D _h 中心计算	The pressure Pn in the hub can be compared to the inside pressure on a thick hollow cylinder. For D_h calculation, see page 140.	中心压力 Pn 可以和厚型凹圆柱体的内部压力比较。 D _h 的计算请参阅140页

Self-centering Clamping Lock - TLK 110

自定中心型夹钳锁

Ordering example:
订购示例
TLK 110 - 6 x 14 - SS

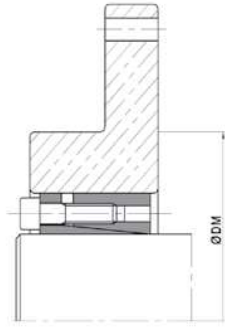
Type / 类型
d: Inner diameter / 内径
D: Outer diameter / 外径
SS: Anti-corrosion / 抗腐蚀
No symbol for normal type / 普通型无符号



dxD	L1	L2	L3	B	D1	Torque 扭矩 Mt	Axial thrust 轴向推力 F ass.	Surface pressures on 表面压力		Tightening screws 螺丝扭紧	
								Shaft 轴 Pw	Hub 中心 Pn	DIN 912 12.9	Tightening torque 拉紧扭矩 Ms
mm	mm	mm	mm	mm	mm	Nm	KN	N/mm ²	N/mm ²	No. x type	Nm
6 x 14	10	18.5	21	24	25	12	4	185	80	3 x M3	2
7 x 15	12	22	25	29	27	25	7	235	110	3 x M4	5
8 x 15	12	22	25	29	27	29	7	205	110	3 x M4	5
9 x 16	14	23	26	30	28	44	10	205	115	4 x M4	5
10 x 16	14	23	26	30	28	49	10	185	115	4 x M4	5
11 x 18	14	23	26	30	32	53	10	170	105	4 x M4	5
12 x 18	14	23	26	30	32	58	10	160	105	4 x M4	5
13 x 23	14	23	26	30	38	63	10	140	80	4 x M4	5
14 x 23	14	23	26	30	38	68	10	130	80	4 x M4	5
15 x 24	16	29	36	42	45	127	17	185	115	3 x M6	17
16 x 24	16	29	36	42	45	136	17	175	115	3 x M6	17
17 x 26	18	31	38	44	47	180	22	190	125	4 x M6	17
18 x 26	18	31	38	44	47	200	22	180	125	4 x M6	17
19 x 27	18	31	38	44	49	210	22	170	120	4 x M6	17
20 x 28	18	31	38	44	50	220	22	160	115	4 x M6	17
22 x 32	25	38	45	51	54	250	22	115	80	4 x M6	17
24 x 34	25	38	45	51	56	270	22	105	75	4 x M6	17
25 x 34	25	38	45	51	56	280	22	100	75	4 x M6	17
28 x 39	25	38	45	51	61	465	33	135	97	6 x M6	17
30 x 41	25	38	45	51	62	510	33	127	90	6 x M6	17
32 x 43	25	38	45	51	65	540	33	120	90	6 x M6	17
35 x 47	32	45	52	58	69	790	45	105	80	8 x M6	17
38 x 50	32	45	52	58	72	860	45	100	75	8 x M6	17
40 x 53	32	45	52	58	75	900	45	95	70	8 x M6	17
42 x 55	32	45	52	58	78	950	45	90	70	8 x M6	17
45 x 59	45	62	70	78	86	1890	84	110	85	8 x M8	41
48 x 62	45	62	70	78	87	2010	84	105	80	8 x M8	41
50 x 65	45	62	70	78	92	2100	84	100	75	8 x M8	41
55 x 71	55	72	80	88	98	2600	94	85	65	9 x M8	41
60 x 77	55	72	80	88	104	2840	94	75	60	9 x M8	41
65 x 84	55	72	80	88	111	3070	94	70	55	9 x M8	41
70 x 90	65	86	96	106	119	5250	150	90	70	9 x M10	83
75 x 95	65	86	96	106	126	5600	150	80	65	9 x M10	83
80 x 100	65	86	96	106	131	8020	200	100	80	12 x M10	83
85 x 106	65	86	96	106	137	8500	200	95	75	12 x M10	83
90 x 112	65	86	96	106	144	9000	200	90	75	12 x M10	83
95 x 120	65	86	96	106	149	11000	230	100	80	14 x M10	83
100 x 125	65	86	96	106	154	15000	300	120	95	18 x M10	83
110 x 140	90	114	128	140	180	16000	290	80	65	12 x M12	145
120 x 155	90	114	128	140	198	17500	290	70	55	12 x M12	145
130 x 165	90	114	128	140	208	25000	384	90	70	16 x M12	145

Self-centering Clamping Unit -TLK 130

自定中心型单一式夹钳



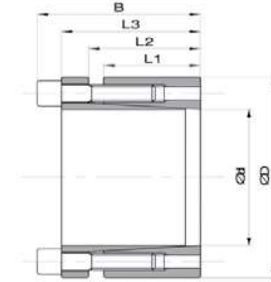
Characteristics 特征	High torque Limited installation time Application economically advantageous Excellent shaft-hub perpendicularity	高度扭矩 安装时间有限 有利的经济运用 优良的轴-中心垂直
Installation 安装	Carefully clean the hub and shaft contact surfaces and apply a light oil film. Slide the clamping unit into the hub bore, insert the shaft and tighten all screws gradually and regularly in crossed sequence to reach the tightening torque Ms as indicated in the table. The values Mt and F ass indicated in the table are valid only in the case of oil installation. Do not use any oil with molibdenum bisulphide or high pressure additives and no grease. Above substances notably reduce the friction coefficient.	小心清洗中心和轴接触的表面并打上一层薄油。滑动夹钳体进入中心孔，插入轴并逐渐地扭紧所有的螺丝，有次序的交叉进入达到紧缚扭矩 Ms 如表中所示。表格中所示的数值 Mt 和 F ass 只有在油性安装的情况下才有效。不可把油和二硫化物，高压添加剂和油脂混用。以上物质明显地减低了摩擦系数。
Dismantling 拆除	Loosen the clamping screws. Insert the screws into the dismantling threading and tighten gradually and regularly in crossed sequence until the bottom cone is released. If the element is to be reused, relubricate both screws and threadings.	松开夹钳螺丝。插入螺丝到螺纹线，逐渐扭紧并有次序地交叉直到锥形底部释放。如果元件要重复使用，需重新润滑所有的螺丝和螺纹线。
Tolerances, surface finish 公差，表面磨光	A good surface finish by machine tool is sufficient. Maximum allowable surface finish: R_a max 16µm Maximum permissible tolerances: h8 for shaft H8 for hub	好的表面磨光需要足够的机械工具加工。 最大允许的表面磨光: R_a max 16 µm 最大可允许的公差: 轴h8 中心H8
Centering 定置中心	Model TLK 130 is self-centering . Without centering guide between shaft hub the concentricity error varies 0,02 mm to 0,04 mm (T.I.R.) .	TLK 130型是自定中心。 在轴和中心之间没有自定中心操纵的同心偏差变化从0,02mm 到 0,04mm (T. I. R.)
Axial Movement 轴向运动	TLK 130: During screw tightening the hub has no axial movement with respect to the shaft.	TLK130: 自定中心 在螺丝的扭紧过程中，中心没有相对于轴的轴向运动。
D_h Hub Calculation D _h 中心计算	The pressure P_n in the hub can be compared to the inside pressure on a thick hollow cylinder. For D_h calculation, see page 140.	中心压力 P_n 可以和厚型凹圆柱体的内部压力比较。 D _h 的计算请参阅140页

Self-centering Clamping Lock - TLK 130

自定中心型夹钳锁

Ordering example:
订购示例
TLK 130 - 20 x 47 - SS

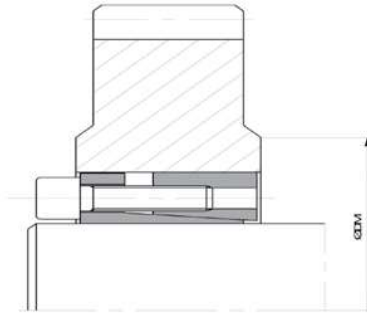
Type / 类型
d: Inner diameter / 内径
D: Outer diameter / 外径
SS: Anti-corrosion / 抗腐蚀
No symbol for normal type / 普通型无符号



dxD	L1	L2	L3	B	Torque 扭矩 Mt	Axial thrust 轴向推力 F ass.	Surface pressures on 表面压力		Tightening screws 螺丝扭紧	
							Shaft 轴 Pw	Hub 中心 Pn	DIN 912 12.9	Tightening torque 拉紧扭矩 Ms
mm	mm	mm	mm	mm	Nm	KN	N/mm ²	N/mm ²	No. x type	Nm
20 x 47	26	30	41	47	540	54	280	120	6 x M6	17
22 x 47	26	30	41	47	600	54	255	120	6 x M6	17
24 x 50	26	30	41	47	650	54	235	115	6 x M6	17
25 x 50	26	30	41	47	680	54	225	115	6 x M6	17
28 x 55	26	30	41	47	760	54	200	105	6 x M6	17
30 x 55	26	30	41	47	820	54	185	105	6 x M6	17
32 x 60	26	30	41	47	1160	73	235	125	8 x M6	17
35 x 60	26	30	41	47	1270	73	215	125	8 x M6	17
38 x 65	26	30	41	47	1380	73	200	115	8 x M6	17
40 x 65	26	30	41	47	1450	73	190	115	8 x M6	17
42 x 75	30	35	49	57	2130	101	215	120	6 x M8	41
45 x 75	30	35	49	57	2280	101	200	120	6 x M8	41
48 x 80	30	35	49	57	2430	101	190	115	6 x M8	41
50 x 80	30	35	49	57	2530	101	180	115	6 x M8	41
55 x 85	30	35	49	57	3700	135	220	140	8 x M8	41
60 x 90	30	35	49	57	4000	135	200	135	8 x M8	41
65 x 95	30	35	49	57	4380	135	185	125	8 x M8	41
70 x 110	40	45	59	69	7500	214	205	130	8 x M10	83
75 x 115	40	45	59	69	8000	214	190	125	8 x M10	83
80 x 120	40	45	59	69	8560	214	180	120	8 x M10	83
85 x 125	40	45	59	69	11370	268	210	145	10 x M10	83
90 x 130	40	45	59	69	12000	268	200	135	10 x M10	83
95 x 135	40	45	59	69	12600	268	190	130	10 x M10	83
100 x 145	46	52	68	80	15589	312	180	125	8 x M12	145
110 x 155	46	52	68	80	17000	312	165	115	8 x M12	145
120 x 165	46	52	68	80	23370	390	190	135	10 x M12	145
130 x 180	46	52	68	80	30380	467	210	150	12 x M12	145
140 x 190	50	57	76	90	29900	428	165	120	8 x M14	230
150 x 200	50	57	76	90	40000	535	190	145	10 x M14	230
160 x 210	50	57	76	90	42750	535	180	135	10 x M14	230
170 x 225	50	57	76	90	54500	641	200	150	12 x M14	230
180 x 235	50	57	76	90	57700	641	190	145	12 x M14	230

Self-centering Clamping Unit -TLK 132

自定中心型单一式夹钳



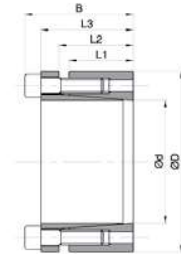
Characteristics 特征	Medium-High torque Limited installation time Application economically advantageous Interchangeable with TLK 200	中-高度扭矩 安装时间有限 有利的经济运用 可和TLK200互换
Installation 安装	Carefully clean the hub and shaft contact surfaces and apply a light oil film. Slide the clamping unit into the hub bore, insert the shaft and tighten all screws gradually and regularly in crossed sequence to reach the tightening torque Ms as indicated in the table. The values Mt and F ass indicated in the table are valid only in the case of oil installation. Do not use any oil with molibdenum bisulphide or high pressure additives and no grease. Above substances notably reduce the friction coefficient.	小心清洗中心和轴接触的表面并打上一层薄油。滑动夹钳体进入中心孔，插入轴并逐渐地扭紧所有的螺丝，有次序的交叉进入达到紧扭矩 Ms 如表中所示。表格中所示的数值 Mt 和 F ass 只有在油性安装的情况下才有效。不可把油和二硫化物，高压添加剂和油脂混用。以上物质明显地减低了摩擦系数。
Dismantling 拆除	Loosen the clamping screws. Insert the screws into the dismantling threading and tighten gradually and regularly in crossed sequence until the bottom cone is released. If the element is to be reused, relubricate both screws and threadings.	松开夹钳螺丝。插入螺丝到螺纹线，逐渐扭紧并有次序地交叉直到锥形底部释放。如果元件要重复使用，需重新润滑所有的螺丝和螺纹线。
Tolerances, surface finish 公差，表面磨光	A good surface finish by machine tool is sufficient. Maximum allowable surface finish: R_a max 16µm Maximum permissible tolerances: H8 for shaft H8 for hub	好的表面磨光需要足够的机械工具加工。 最大允许的表面磨光: R_a max 16 µm 最大可允许的公差: 轴H8 中心H8
Centering 定置中心	Model TLK 132 is self-centering . Without centering guide between shaft hub the concentricity error varies 0,02 mm to 0,04 mm (T.I.R.) .	TLK 132型是自定中心。 在轴和中心之间没有自定中心操纵的同心偏差变化从 0,02mm 到 0,04mm (T. I. R.)
Axial Movement 轴向运动	TLK 132: During screw tightening the hub has no axial movement with respect to the shaft.	TLK132: 自定中心 在螺丝的扭紧过程中，中心没有相对于轴的轴向运动。
D_h Hub Calculation D _h 中心计算	The pressure P_n in the hub can be compared to the inside pressure on a thick hollow cylinder. For D_h calculation, see page 140.	中心压力 P_n 可以和厚型凹圆柱体的内部压力比较。 D _h 的计算请参阅140页

Self-centering Clamping Lock - TLK 132

自定中心型夹钳锁

Ordering example:
订购示例 **TLK 132 - 20 x 47 - SS**

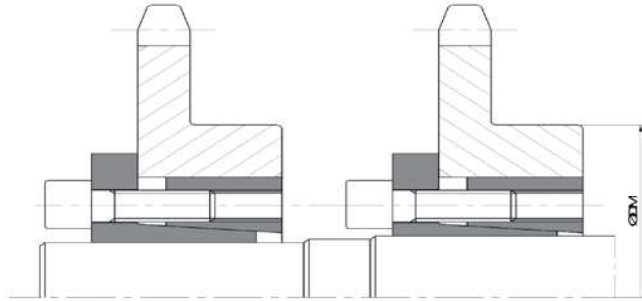
Type / 类型
d: Inner diameter / 内径
D: Outer diameter / 外径
SS: Anti-corrosion / 抗腐蚀
No symbol for normal type / 普通型无符号



dxD	L1	L2	L3	B	Torque 扭矩 Mt Nm	Axial thrust 轴向推力 F ass. KN	Surface pressures on 表面压力		Tightening screws 螺丝扭紧	
							Shaft 轴 Pw N/mm ²	Hub 中心 Pn N/mm ²	DIN 912 12.9 No. x type	Tightening torque 拉紧扭矩 Ms Nm
20 x 47	17	22	28	34	380	38	295	125	5 x M6	14
22 x 47	17	22	28	34	410	38	270	125	5 x M6	14
24 x 50	17	22	28	34	450	38	245	120	5 x M6	14
25 x 50	17	22	28	34	570	46	285	140	6 x M6	14
28 x 55	17	22	28	34	630	46	255	130	6 x M6	14
30 x 55	17	22	28	34	660	46	235	130	6 x M6	14
32 x 60	17	22	28	34	970	60	295	155	8 x M6	14
35 x 60	17	22	28	34	1060	60	270	155	8 x M6	14
38 x 65	17	22	28	34	1150	60	250	145	8 x M6	14
40 x 65	17	22	28	34	1210	60	235	145	8 x M6	14
42 x 75	20	25	33	41	2050	98	300	170	7 x M8	35
45 x 75	20	25	33	41	2200	98	290	170	7 x M8	35
48 x 80	20	25	33	41	2350	98	270	160	7 x M8	35
50 x 80	20	25	33	41	2450	98	260	160	7 x M8	35
55 x 85	20	25	33	41	3080	112	270	175	8 x M8	35
60 x 90	20	25	33	41	3360	112	245	165	8 x M8	35
65 x 95	20	25	33	41	4090	126	255	175	9 x M8	35
70 x 110	24	30	40	50	6300	179	280	180	8 x M10	70
75 x 115	24	30	40	50	6700	179	260	170	8 x M10	70
80 x 120	24	30	40	50	7150	179	250	170	8 x M10	70
85 x 125	24	30	40	50	8500	200	260	180	9 x M10	70
90 x 130	24	30	40	50	9100	200	250	170	9 x M10	70
95 x 135	24	30	40	50	10600	224	260	180	10 x M10	70
100 x 145	26	32	44	56	13400	268	270	190	8 x M12	125
110 x 155	26	32	44	56	14600	268	240	180	8 x M12	125
120 x 165	26	32	44	56	17900	268	250	180	9 x M12	125
130 x 180	34	40	54	64	26000	400	240	170	12 x M12	125
140 x 190	34	40	54	68	27000	384	210	150	9 x M14	190
150 x 200	34	40	54	68	33000	440	230	170	10 x M14	190
160 x 210	34	40	54	68	38000	479	230	170	11 x M14	190
170 x 225	44	50	64	78	45000	530	180	130	12 x M14	190
180 x 235	44	50	64	78	47000	530	170	130	12 x M14	190
190 x 250	44	50	64	78	62900	660	210	150	15 x M14	190
200 x 260	44	50	64	78	66000	660	190	150	15 x M14	190

Self-centering Clamping Unit -TLK 134

自定中心型单一式夹钳



Characteristics 特征	High torque Quick installation time Application economically advantageous Excellent shaft-hub squareness	高度扭矩 安装时间快速 有利的经济运用 优良的轴-中心方程度
Installation 安装	Carefully clean the hub and shaft contact surfaces and apply a light oil film. Slide the clamping unit into the hub bore, insert the shaft and tighten all screws gradually and regularly in crossed sequence to reach the tightening torque Ms as indicated in the table. The values Mt and F ass indicated in the table are valid only in the case of oil installation. Do not use any oil with molibdenum bisulphide or high pressure additives and no grease. Above substances notably reduce the friction coefficient.	小心清洗中心和轴接触的表面并打上一层薄油。滑动夹钳体进入中心孔，插入轴并逐渐地扭紧所有的螺丝，有次序的交叉进入达到紧缚扭矩 Ms 如表中所示。表格中所示的数值 Mt 和 F ass 只有在油性安装的情况下才有效。不可把油和二硫化物、高压添加剂和油脂混用。以上物质明显地减低了摩擦系数。
Dismantling 拆除	Loosen the clamping screws. Insert the screws into the dismantling threading and tighten gradually and regularly in crossed sequence until the bottom cone is released. If the element is to be reused, relubricate both screws and threadings.	松开夹钳螺丝。插入螺丝到螺纹线，逐渐扭紧并有次序地交叉直到锥形底部释放。如果元件要重复使用，需重新润滑所有的螺丝和螺纹线。
Tolerances, surface finish 公差，表面磨光	A good surface finish by machine tool is sufficient. Maximum allowable surface finish: R_a max 16µm Maximum permissible tolerances: h8 for shaft H8 for hub	好的表面磨光需要足够的机械工具加工。 最大允许的表面磨光: R_a max 16 µm 最大可允许的公差: 轴h8 中心H8
Centering 定置中心	Model TLK 134 is self-centering . Without centering guide between shaft hub the concentricity error varies 0,02 mm to 0,04 mm (T.I.R.) .	TLK 134型是自定中心。 在轴和中心之间没有自定中心操纵的同心偏差变化从 0,02mm 到 0,04mm (T. I. R.)
Axial Movement 轴向运动	TLK 134: During screw tightening the hub has no axial movement with respect to the shaft.	TLK134: 自定中心 在螺丝的扭紧过程中，中心没有相对于轴的轴向运动。
D_h Hub Calculation D _h 中心计算	The pressure Pn in the hub can be compared to the inside pressure on a thick hollow cylinder. For D_h calculation, see page 140.	中心压力 Pn 可以和厚型凹圆柱体的内部压力比较。 D _h 的计算请参阅140页

Self-centering Clamping Lock - TLK 134

自定中心型夹钳锁

Ordering example:
订购示例 **TLK 134 - 14 x 55 - SS**

Type / 类型
d: Inner diameter / 内径
D: Outer diameter / 外径
SS: Anti-corrosion / 抗腐蚀
No symbol for normal type / 普通型无符号



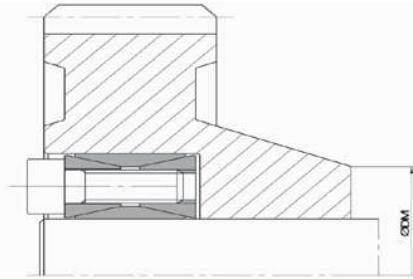
dxD	L1	L2	L3	B	D1	Torque 扭矩 Mt Nm	Axial thrust 轴向推力 F ass. KN	Surface pressures on 表面压力		Tightening screws 螺丝扭紧	
								Shaft 轴 Pw N/mm ²	Hub 中心 Pn N/mm ²	DIN 912 12.9	Tightening torque 拉紧扭矩 Ms Nm
mm	mm	mm	mm	mm	mm					No. x type	
14 x 55						120	18	205	55	3 x M8	25
16 x 55						140	18	180	55		25
18 x 55						150	18	160	55		25
19 x 55						160	18	150	55		25
20 x 55	17	22	30	38	62	170	18	145	55		25
22 x 55						280	25	185	75		35
24 x 55						300	25	170	75		35
25 x 55						310	25	165	75		35
28 x 55						430	31	175	90		41
30 x 55						470	31	165	90		41
24 x 65						440	37	244	90	5 x M8	30
25 x 65						460	37	234	90		30
28 x 65						600	44	243	105		35
30 x 65	17	22	30	38	72	640	44	227	105		35
32 x 65						690	44	213	105		35
35 x 65						910	52	234	126		41
38 x 65						990	52	216	126		41
40 x 65						1050	52	205	126		41
30 x 80						780	52	232	87	7 x M8	30
32 x 80						830	52	217	87		30
35 x 80						1060	61	232	102		35
38 x 80						1150	61	214	102		35
40 x 80	20	25	33	41	87	1220	61	203	102		35
42 x 80						1540	73	233	122		41
45 x 80						1650	73	217	122		41
48 x 80						1760	73	203	122		41
50 x 80						1830	73	195	122		41

Power Transmission
动力传输

Power Transmission
动力传输

Not Self-centering Clamping Unit -TLK 200

非自定中心型单一式夹钳

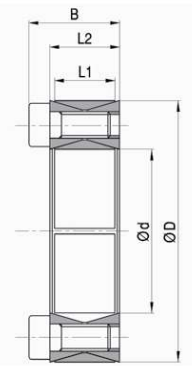


Characteristics 特征	Medium - High torque Easy availability Wide tolerances Easy dismantling	中-高度扭矩 简单实用 公差范围广 拆除简便
Installation 安装	Carefully clean the hub and shaft contact surfaces and apply a light oil film. Slide the clamping unit into the hub bore, insert the shaft and tighten all screws gradually and regularly in crossed sequence to reach the tightening torque Ms as indicated in the table. The values Mt and F ass indicated in the table are valid only in the case of oil installation. Do not use any oil with molibdenum bisulphide or high pressure additives and no grease. Above substances notably reduce the friction coefficient.	小心清洗中心和轴接触的表面并打上一层薄油。滑动夹钳体进入中心孔，插入轴并逐渐地扭紧所有的螺丝，有次序的交叉进入达到紧固扭矩 Ms 如表中所示。表格中所示的数值 Mt 和 F ass 只有在油性安装的情况下才有效。不可把油和二硫化物，高压添加剂和油脂混用。以上物质明显地减低了摩擦系数。
Dismantling 拆除	By loosening all tightening screws, the clamping unit is normally released. In case of difficulties, hammer the released screws slightly to push back the rear pressure cone.	松开所有的螺丝，夹钳会正常释放开。在困难的情况下，轻轻捶打松开的螺丝以推回锥形后面的压力。
Tolerances, surface finish 公差，表面磨光	A good surface finish by machine tool is sufficient. Maximum allowable surface finish: R_a max 16µm Maximum permissible tolerances: h11 for shaft H11 for hub	好的表面磨光需要足够的机械工具加工。 最大允许的表面磨光: R_a max 16 µm 最大可允许的公差: 轴h11 中心H11
Centering 定置中心	Model TLK 200 is non self-centering . The hub concentricity with respect to the shaft depends on the guide surface tolerance and its length.	TLK 200型是非自定中心。 同心轴依赖于操纵表面公差和自身长度。
Axial Movement 轴向运动	TLK 200: During screw tightening the hub has no axial movement with respect to the shaft.	TLK200:非自定中心 在螺丝的扭紧过程中，中心没有相对于轴的轴向运动。
D_m Hub Calculation D _m 中心计算	The pressure Pn in the hub can be compared to the inside pressure on a thick hollow cylinder. For D_m calculation, see page 140.	中心压力 Pn 可以和厚型凹圆柱体的内部压力比较。 D _m 的计算请参阅140页
Mt Transmissible Mt可传送性	If two or more clamping units are installed together, as a result of carried tests, the Mt transmissible shall be calculated as follows: Nr. 1 TLK 200 Mt = Mt cat. Nr. 2 TLK 200 Mt = Mt cat. 1,9 Nr. 3 TLK 200 Mt = Mt cat. 2,7	如果有两个或多个夹钳安装在一起，测试结果显示，Mt的可传送性将可依以下计算： Nr. 1 TLK 200 Mt = Mt cat. Nr. 2 TLK 200 Mt = Mt cat. 1,9 Nr. 3 TLK 200 Mt = Mt cat. 2.7

Not Self-centering Clamping Lock - TLK 200

非自定中心型夹钳锁

dxD	L1	L2	B	Torque 扭矩 Mt	Axial thrust 轴向推力 F ass.	Surface pressures on 表面压力		Tightening screws 螺丝扭紧	
						Shaft 轴 Pw	Hub 中心 Pn	DIN 912 12.9	Tightening torque 拉紧扭矩 Ms
mm	mm	mm	mm	Nm	KN	N/mm ²	N/mm ²	No. x type	Nm
20 x 47	17	20	27.5	280	29	225	95	8 x M6	15
22 x 47	17	20	27.5	310	29	210	95	8 x M6	15
24 x 50	17	20	27.5	370	32	210	100	8 x M6	15
25 x 50	17	20	27.5	400	32	200	100	8 x M6	15
28 x 55	17	20	27.5	500	36	200	100	10 x M6	15
30 x 55	17	20	27.5	530	36	185	100	10 x M6	15
32 x 60	17	20	27.5	680	42	205	110	12 x M6	15
35 x 60	17	20	27.5	750	43	190	110	12 x M6	15
38 x 65	17	20	27.5	930	49	200	115	14 x M6	15
40 x 65	17	20	27.5	980	49	190	115	14 x M6	15
42 x 75	20	24	33.5	1580	75	235	130	12 x M8	37
45 x 75	20	24	33.5	1700	76	220	130	12 x M8	37
48 x 80	20	24	33.5	1790	74	210	120	12 x M8	37
50 x 80	20	24	33.5	1870	75	200	120	12 x M8	37
55 x 85	20	24	33.5	2390	88	210	135	14 x M8	37
60 x 90	20	24	33.5	2610	88	190	125	14 x M8	37
65 x 95	20	24	33.5	3210	98	200	135	16 x M8	37
70 x 110	24	28	39.5	4900	132	210	130	14 x M10	70
75 x 115	24	28	39.5	4900	131	195	125	14 x M10	70
80 x 120	24	28	39.5	5200	131	180	120	14 x M10	70
85 x 125	24	28	39.5	6300	148	195	130	16 x M10	70
90 x 130	24	28	39.5	6600	147	180	125	16 x M10	70
95 x 135	24	28	39.5	7900	167	195	135	18 x M10	70
100 x 145	26	33	47	9750	195	195	135	14 x M12	127
110 x 155	26	33	47	10650	194	180	125	14 x M12	127
120 x 165	26	33	47	13300	221	185	135	16 x M12	127
130 x 180	34	38	52	17850	276	165	115	20 x M12	127
140 x 190	34	38	52	21200	302	165	125	22 x M12	127
150 x 200	34	38	52	24500	329	170	125	24 x M12	127
160 x 210	34	38	52	28400	355	170	130	26 x M12	127
170 x 225	38	44	60	33600	396	165	120	22 x M14	195
180 x 235	38	44	60	38700	431	170	130	24 x M14	195
190 x 250	46	52	68	44700	502	155	120	28 x M14	195
200 x 260	46	52	68	53500	538	155	120	30 x M14	195
220 x 285	50	56	74	68500	630	155	120	26 x M16	300
240 x 305	50	56	74	86000	717	165	130	30 x M16	300
260 x 325	50	56	74	105000	810	165	135	34 x M16	300
280 x 355	60	66	86.5	128500	920	150	120	32 x M18	410
300 x 375	60	66	86.5	153600	1025	155	125	36 x M18	410
320 x 405	72	78	130	210500	1325	155	125	36 x M20	590
340 x 425	72	78	130	225000	1325	150	120	36 x M20	590
360 x 455	84	90	130	294700	1635	150	125	36 x M22	790
380 x 475	84	90	130	309100	1625	140	120	36 x M22	790
400 x 495	84	90	130	321900	1617	135	110	36 x M22	790
420 x 515	84	90	130	374000	1780	135	110	40 x M22	790
440 x 545	96	102	130	455000	2060	130	105	40 x M24	1000
460 x 565	96	102	130	470000	2040	125	100	40 x M24	1000
480 x 585	96	102	130	515000	2160	125	100	42 x M24	1000
500 x 605	96	102	130	580000	2240	125	100	44 x M24	1000
520 x 630	96	102	130	600000	2320	125	100	45 x M24	1000
540 x 650	96	102	130	630000	2340	120	100	45 x M24	1000
560 x 670	96	102	130	680000	2440	120	100	50 x M24	1000
580 x 690	96	102	130	735000	2540	120	100	50 x M24	1000
600 x 710	96	102	130	775000	2580	120	100	50 x M24	1000
620 x 730	96	102	130	825000	2680	120	100	52 x M24	1000
640 x 750	96	102	130	865000	2700	115	100	54 x M24	1000
660 x 770	96	102	130	925000	2800	120	100	56 x M24	1000
680 x 790	96	102	130	965000	2840	115	100	56 x M24	1000
700 x 810	96	102	130	1030000	2960	115	100	60 x M24	1000
720 x 830	96	102	130	1070000	2980	115	100	60 x M24	1000
740 x 850	96	102	130	1140000	3080	115	100	62 x M24	1000
760 x 870	96	102	130	1210000	3180	115	100	64 x M24	1000
780 x 890	96	102	130	1250000	3220	115	100	65 x M24	1000
800 x 910	96	102	130	1300000	3280	115	100	66 x M24	1000
820 x 930	96	102	130	1370000	3340	115	100	68 x M24	1000
840 x 950	96	102	130	1450000	3460	115	100	70 x M24	1000
860 x 970	96	102	130	1520000	3540	115	100	72 x M24	1000
880 x 990	96	102	130	1590000	3620	115	100	74 x M24	1000
900 x 1010	96	102	130	1650000	3680	115	100	75 x M24	1000



Ordering example:
订购示例

TLK 200-20X47 - SS

Type / 类型

d: Inner diameter
内径

D: Outer diameter
外径

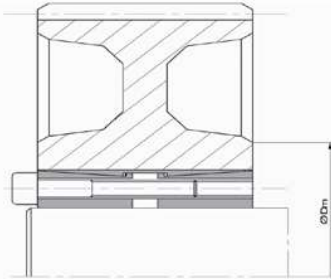
SS: Anti-corrosion / 抗腐蚀
No symbol for normal type
普通型无符号

Power Transmission
动力传输

Power Transmission
动力传输

Self-centering Clamping Unit -TLK 450

自定中心型单一式夹钳



Characteristics 特征	Very high torque Standard sizes Capacity to withstand bending moments Even pressure distribution No shaft-hub axial movement	超高度扭矩 标准尺寸 具抗弯曲力矩能力 压力均匀分布 无轴-中心的轴向运动
Installation 安装	Carefully clean the hub and shaft contact surfaces and apply a light oil film. Slide the clamping unit into the hub bore, insert the shaft and tighten all screws gradually and regularly in crossed sequence to reach the tightening torque Ms as indicated in the table. The values Mt and F ass indicated in the table are valid only in the case of oil installation. Do not use any oil with molibdenum bisulphide or high pressure additives and no grease. Above substances notably reduce the friction coefficient.	小心清洗中心和轴接触的表面并打上一层薄油。滑动夹钳体进入中心孔，插入轴并逐渐地扭紧所有的螺丝，有次序的交叉进入达到紧固扭矩 Ms 如表中所示。表格中所示的数值 Mt 和 F ass 只有在油性安装的情况下才有效。不可把油和二硫化物、高压添加剂和油脂混用。以上物质明显地减低了摩擦系数。
Dismantling 拆除	Loosen the clamping screws. Insert the screws into the dismantling threading of the front cone and tighten them gradually in crossed sequence up to 50% of the Ms value indicated in the table. Repeat the same operation by tightening the screws at the tightening torque Ms indicated in the table. When the front cone is loosened, release the rear cone. TLK 450: Keep tightening the screws and repeat the sequence above. In case of re-use, check that positions of the dismantling threads of both front cone and middle ring are intact as new.	松开夹钳螺丝。插入螺丝到圆锥体前方的除螺线并逐渐，有顺序地交叉扭紧，直到表格中 Ms 值的50%。重复以上操作扭紧螺丝到表格中所示的拉紧扭矩 Ms 。当圆锥体前方松开，释放圆锥体的后方。 TLK 450: 插入螺丝到中环，在上圈重复同样的操作。如欲重复使用夹钳，请确保圆锥体前方和中环的除螺线位置明确如新。
Tolerances, surface finish 公差，表面磨光	A good surface finish by machine tool is sufficient. Maximum allowable surface finish: R_a max 16µm Maximum permissible tolerances: h8 for shaft H8 for hub	好的表面磨光需要足够的机械工具加工。 最大允许的表面磨光: R_a max 16 µm 最大可允许的公差: 轴 h8 中心 H8
Centering 定置中心	Model TLK 450 is self-centering . Without centering guide between shaft hub the concentricity error varies 0,02 mm to 0,04 mm (T.I.R.) .	TLK 450型是自定中心。 在轴和中心之间没有自定中心操纵的同心偏差变化从 0,02mm 到 0,04mm (T. I. R.)
D_M Hub Calculation D _M 中心计算	The pressure Pn in the hub can be compared to the inside pressure on a thick hollow cylinder. For D_M calculation, see page 140.	中心压力 Pn 可以和厚型凹圆柱体的内部压力比较。 D _M 的计算请参阅140页

Self-centering Clamping Lock - TLK 450

自定中心型夹钳锁

Ordering example:
订购示例
TLK 450 - 25 x 50 - SS

Type / 类型
d: Inner diameter / 内径
D: Outer diameter / 外径
SS: Anti-corrosion / 抗腐蚀
No symbol for normal type / 普通型无符号



dxD	L1	L2	B	Torque 扭矩	Axial thrust 轴向推力 F ass.	Surface pressures on 表面压力		Tightening screws 螺丝扭紧	
						Shaft 轴 Pw	Hub 中心 Pn	DIN 912 12.9	Tightening torque 拉紧扭矩 Ms
mm	mm	mm	mm	Nm	KN	N/mm ²	N/mm ²	No. x type	Nm
25 x 50	39	45	51	950	76	245	122	8 x M6	17
28 x 55	39	45	51	1070	76	219	111	8 x M6	17
30 x 55	39	45	51	1150	76	204	111	8 x M6	17
35 x 60	39	45	51	1340	76	175	102	8 x M6	17
38 x 65	39	45	51	1450	76	161	94	8 x M6	17
40 x 65	39	45	51	1530	76	153	94	8 x M6	17
42 x 75	56	64	72	2970	141	188	105	8 x M8	41
45 x 75	56	64	72	3150	141	175	105	8 x M8	41
48 x 80	56	64	72	4000	166	164	98	8 x M8	41
50 x 80	56	64	72	4150	166	158	98	8 x M8	41
55 x 85	56	64	72	4550	166	143	93	8 x M8	41
60 x 90	56	64	72	6200	207	164	109	10 x M8	41
65 x 95	56	64	72	6750	207	152	104	10 x M8	41
70 x 110	70	78	88	11550	330	179	114	10 x M10	83
75 x 115	70	78	88	12350	330	167	109	10 x M10	83
80 x 120	70	78	88	15800	396	188	125	12 x M10	83
85 x 125	70	78	88	16800	396	177	120	12 x M10	83
90 x 130	70	78	88	17800	396	167	115	12 x M10	83
95 x 135	70	78	88	18800	396	158	111	12 x M10	83
100 x 145	90	100	112	28800	576	170	117	12 x M12	145
110 x 155	90	100	112	31700	576	155	110	12 x M12	145
120 x 165	90	100	112	40300	673	165	120	14 x M12	145
130 x 180	104	116	130	51400	791	155	112	12 x M14	230
140 x 190	104	116	130	64600	923	168	124	14 x M14	230
150 x 200	104	116	130	79100	1055	179	135	16 x M14	230
160 x 210	104	116	130	84400	1055	168	128	16 x M14	230
170 x 225	134	146	162	109000	1283	149	113	14 x M16	355
180 x 235	134	146	162	132000	1466	161	124	16 x M16	355
190 x 250	134	146	162	139000	1466	153	116	16 x M16	355
200 x 260	134	146	162	146500	1466	145	112	16 x M16	355
220 x 285	134	146	162	201500	1833	165	127	20 x M16	355
240 x 305	134	146	162	242000	2017	166	131	22 x M16	355
260 x 325	134	146	162	262000	2017	154	123	22 x M16	355
280 x 355	165	177	197	400000	2862	164	130	20 x M20	690
300 x 375	165	177	197	472000	3148	169	135	22 x M20	690
320 x 405	165	177	197	503500	3148	158	125	22 x M20	690
340 x 425	165	177	197	583500	3434	162	130	24 x M20	690
360 x 455	190	202	224	705000	3918	152	120	22 x M22	930
380 x 475	190	202	224	880000	4631	170	136	26 x M22	930
400 x 495	190	202	224	926000	4631	162	131	26 x M22	930

Power Transmission
动力传输

Power Transmission
动力传输

Calculation of Minimum Hub Diameter D_M

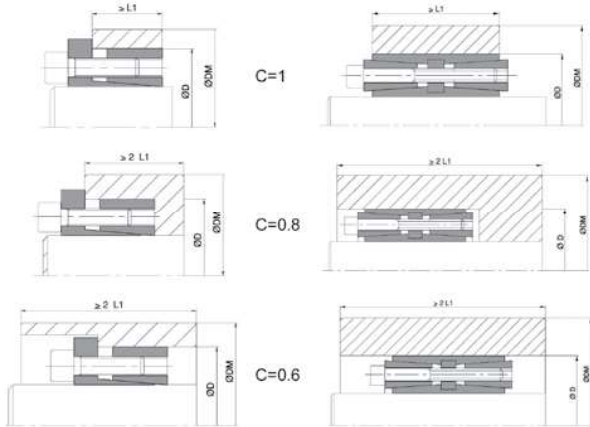
计算轴心直径 D_M 的最小值

By installing HISAKA clamping units and elements, the surface pressure P_n , existing between the clamp outer rings and related hub bore, will generate a stress. To calculate the minimum hub diameter D_M the formula normally used for thick hollow cylinder is valid. The real stress changes depending on hub shape and length with respect to the dimension $L1$ of clamping units and elements.

Factor C must be considered in function of application type.

在安装了HISAKA夹钳体和组件的情况下，表面压力 P_n 存在于夹钳外圈和相应的轴心钻孔之间产生了压力。计算轴心直径 D_M 的最小值，一般用于厚空圆柱体的公式是有效的。实际压力的改变依赖于夹钳体和组件的尺寸 $L1$ 的中心形状和长度。

因素C必须被考虑在运用类型方面的功能。



For minimum hub diameter D_M calculation, the following formula must be applied:

$$D_M \geq D \cdot K \quad \text{Where } K \text{ is equal to:}$$

$$K = \sqrt{\frac{\sigma_{02} + (C \cdot P_n)}{\sigma_{02} - (C \cdot P_n)}}$$

To simplify the calculation our technical department has prepared the table on the next page.

Example:
Clamping unit TLK 130-30x55
Hub pressure $P_n = 95 \text{ N/mm}^2$
Hub material GGG40 (yielding limit $\sigma_{02} = 250 \text{ N/mm}^2$)
Hub length and shape equivalent $C = 1$.

$$D_M \geq 55 \times 1.49 \geq 81.95 \text{ mm}$$

计算轴心直径 D_M 的最小值必须运用以下公式:

$$D_M \geq D \cdot K \quad K \text{ 等于}$$

$$K = \sqrt{\frac{\sigma_{02} + (C \cdot P_n)}{\sigma_{02} - (C \cdot P_n)}}$$

要使计算方法简单化，我们的技术部门已准备了表格如下页。
例如：
夹钳体 TLK 130-30x55
轴心压力 $P_n = 95 \text{ N/mm}^2$
轴心材料 GGG40 (发生极限 $\sigma_{02} = 250 \text{ N/mm}^2$)
轴心长度和相似形状 $C=1$

$$D_M \geq 55 \times 1.49 \geq 81.95 \text{ mm}$$

Calculation of Minimum Hub Diameter D_M

计算轴心直径 D_M 的最小值

Table of Coefficient K / 系数K的列表

Pressure generated on the hub 轴心上产生的压力		σ_{02} Yield point N/mm ² / σ_{02} 发生点 N/mm ²										
		150	180	200	220	250	270	300	350	400	450	600
Pn N/mm ²	Application Type 运用类型 C	Material Type / 材料类型										
		GG20	GG25 GS38	GG30 GTS35	GS45 ST37-2	GGG40 GS52	ST50-2 C35	GGG50 GS60 ST60-2	GGG60 GS62 ST70-2	GGG70 GS70 C60		
60	C = 0.6	1.28	1.25	1.20	1.18	1.15	1.14	1.12	1.10	1.09	1.08	1.06
	C = 0.8	1.39	1.30	1.24	1.23	1.22	1.20	1.18	1.15	1.12	1.11	1.08
	C = 1	1.52	1.42	1.36	1.32	1.28	1.25	1.22	1.18	1.16	1.14	1.10
65	C = 0.6	1.30	1.25	1.22	1.30	1.18	1.15	1.13	1.11	1.10	1.09	1.07
	C = 0.8	1.44	1.35	1.30	1.28	1.24	1.22	1.20	1.16	1.14	1.12	1.09
	C = 1	1.60	1.45	1.40	1.35	1.30	1.28	1.24	1.20	1.18	1.16	1.12
70	C = 0.6	1.34	1.26	1.24	1.22	1.18	1.16	1.15	1.12	1.11	1.10	1.07
	C = 0.8	1.48	1.38	1.34	1.30	1.25	1.23	1.20	1.18	1.15	1.13	1.10
	C = 1	1.65	1.50	1.45	1.40	1.34	1.30	1.26	1.22	1.20	1.17	1.13
75	C = 0.6	1.30	1.28	1.25	1.23	1.20	1.18	1.16	1.14	1.12	1.11	1.08
	C = 0.8	1.52	1.42	1.36	1.32	1.28	1.25	1.22	1.18	1.16	1.14	1.11
	C = 1	1.74	1.55	1.48	1.42	1.36	1.33	1.30	1.25	1.20	1.18	1.13
80	C = 0.6	1.39	1.31	1.28	1.25	1.24	1.20	1.18	1.15	1.13	1.11	1.08
	C = 0.8	1.58	1.45	1.39	1.35	1.30	1.27	1.24	1.20	1.18	1.15	1.11
	C = 1	1.81	1.61	1.53	1.46	1.39	1.36	1.31	1.26	1.22	1.20	1.14
85	C = 0.6	1.42	1.34	1.30	1.27	1.23	1.21	1.19	1.16	1.14	1.12	1.09
	C = 0.8	1.63	1.49	1.42	1.38	1.32	1.29	1.26	1.22	1.19	1.16	1.12
	C = 1	1.90	1.67	1.57	1.50	1.42	1.39	1.34	1.28	1.24	1.21	1.15
90	C = 0.6	1.46	1.36	1.32	1.28	1.25	1.22	1.20	1.17	1.15	1.13	1.09
	C = 0.8	1.69	1.53	1.46	1.40	1.34	1.31	1.28	1.23	1.20	1.18	1.13
	C = 1	2.00	1.73	1.62	1.54	1.46	1.41	1.36	1.30	1.26	1.22	1.16
95	C = 0.6	1.49	1.39	1.34	1.30	1.26	1.24	1.21	1.18	1.15	1.14	1.10
	C = 0.8	1.75	1.57	1.49	1.43	1.37	1.34	1.30	1.25	1.21	1.19	1.14
	C = 1	2.11	1.80	1.68	1.59	1.49	1.44	1.39	1.32	1.27	1.24	1.17
100	C = 0.6	1.53	1.41	1.36	1.32	1.28	1.25	1.22	1.19	1.16	1.14	1.11
	C = 0.8	1.81	1.61	1.53	1.46	1.39	1.36	1.31	1.26	1.22	1.20	1.14
	C = 1	2.24	1.87	1.73	1.63	1.53	1.48	1.41	1.34	1.29	1.25	1.18
105	C = 0.6	1.56	1.44	1.39	1.34	1.29	1.27	1.24	1.20	1.17	1.15	1.11
	C = 0.8	1.88	1.66	1.56	1.50	1.42	1.38	1.33	1.28	1.24	1.21	1.15
	C = 1	2.38	1.95	1.79	1.68	1.56	1.51	1.44	1.36	1.34	1.27	1.19
110	C = 0.6	1.60	1.47	1.41	1.36	1.31	1.28	1.25	1.21	1.18	1.16	1.12
	C = 0.8	1.96	1.71	1.60	1.53	1.44	1.41	1.35	1.29	1.25	1.22	1.16
	C = 1	2.55	2.04	1.86	1.73	1.60	1.54	1.47	1.38	1.33	1.28	1.20
115	C = 0.6	1.64	1.50	1.43	1.36	1.33	1.30	1.26	1.22	1.19	1.17	1.12
	C = 0.8	2.04	1.76	1.64	1.56	1.47	1.43	1.37	1.31	1.26	1.23	1.17
	C = 1	2.75	2.13	1.93	1.79	1.64	1.58	1.50	1.41	1.34	1.30	1.21
120	C = 0.6	1.69	1.53	1.46	1.40	1.34	1.34	1.28	1.23	1.20	1.18	1.13
	C = 0.8	2.13	1.81	1.69	1.60	1.50	1.45	1.39	1.33	1.28	1.24	1.18
	C = 1	3.00	2.24	2.00	1.84	1.69	1.61	1.53	1.43	1.36	1.31	1.22
125	C = 0.6	1.73	1.56	1.48	1.43	1.36	1.33	1.29	1.24	1.21	1.18	1.13
	C = 0.8	2.24	1.87	1.73	1.63	1.53	1.48	1.41	1.34	1.29	1.25	1.18
	C = 1	3.32	2.35	2.08	1.91	1.73	1.65	1.56	1.45	1.38	1.33	1.24
130	C = 0.6	1.78	1.59	1.51	1.45	1.38	1.35	1.30	1.25	1.22	1.19	1.14
	C = 0.8	2.35	1.93	1.78	1.67	1.56	1.50	1.44	1.36	1.30	1.27	1.19
	C = 1	3.74	2.49	2.17	1.97	1.78	1.69	1.59	1.48	1.40	1.35	1.25

Calculation of Minimum Hub Diameter D_M

计算轴心直径 D_M 的最小值

Table of Coefficient K / 系数K的列表

Pressure generated on the hub 轴心上产生的压力		σ_{02} Yield point N/mm ² / σ_{02} 发生点 N/mm ²										
		150	180	200	220	250	270	300	350	400	450	600
Pn N/mm ²	Application Type 运用类型 C	Material Type / 材料类型										
		GG20	GG25 GS38	GG30 GTS35	GS45 ST37-2	GGG40 GS52	ST50-2 C35	GGG50 GS60 ST60-2	GGG60 GS62	GGG70 GS70 C60		
135	C = 0.6	1.83	1.62	1.54	1.47	1.40	1.36	1.32	1.27	1.23	1.20	1.15
	C = 0.8	2.48	2.00	1.83	1.71	1.59	1.53	1.46	1.38	1.32	1.28	1.20
	C = 1	4.36	2.65	2.27	2.04	1.83	1.73	1.62	1.50	1.42	1.36	1.26
140	C = 0.6	1.88	1.66	1.56	1.50	1.42	1.38	1.33	1.28	1.24	1.21	1.15
	C = 0.8	2.63	2.07	1.88	1.75	1.62	1.55	1.48	1.39	1.33	1.29	1.21
	C = 1	2.39	2.83	2.38	2.12	1.88	1.78	1.66	1.53	1.44	1.38	1.27
145	C = 0.6	1.94	1.69	1.59	1.52	1.44	1.40	1.35	1.29	1.25	1.22	1.16
	C = 0.8	2.80	2.15	1.94	1.80	1.65	1.58	1.50	1.41	1.35	1.30	1.22
	C = 1	7.68	3.05	2.50	2.21	1.94	1.82	1.69	1.55	1.46	1.40	1.28
150	C = 0.6	2.00	1.73	1.62	1.54	1.46	1.41	1.36	1.30	1.26	1.23	1.16
	C = 0.8	3.00	2.24	2.00	1.84	1.69	1.61	1.53	1.43	1.36	1.31	1.23
	C = 1	---	3.32	2.65	2.30	2.00	1.87	1.73	1.58	1.48	1.41	1.29
155	C = 0.6	2.06	1.77	1.65	1.57	1.48	1.43	1.38	1.31	1.27	1.24	1.17
	C = 0.8	3.25	2.33	2.06	1.89	1.72	1.65	1.55	1.45	1.38	1.33	1.23
	C = 1	---	3.66	2.80	2.40	2.06	1.92	1.77	1.61	1.51	1.43	1.30
160	C = 0.6	2.13	1.81	1.69	1.60	1.50	1.45	1.39	1.33	1.28	1.24	1.18
	C = 0.8	3.55	2.43	2.13	1.94	1.76	1.67	1.58	1.47	1.39	1.34	1.24
	C = 1	---	4.12	3.00	2.52	2.13	1.98	1.81	1.64	1.53	1.45	1.31
165	C = 0.6	2.21	1.86	1.72	1.62	1.52	1.47	1.41	1.34	1.29	1.25	1.18
	C = 0.8	3.96	2.55	2.21	2.00	1.80	1.71	1.60	1.49	1.41	1.35	1.25
	C = 1	---	4.80	3.23	2.65	2.21	2.04	1.86	1.67	1.55	1.47	1.33

Timing Belt & Pulley

同步带和带轮



Definition & Usage

Timing belt synchronizes the revolutions of camshaft to the crankshaft controlling ignition timing. It is commonly teamed with a timing pulley and used in power transmission.

A timing pulley may be defined as a wheel with broad or grooved rim, for transmitting power from, or imparting power to, the different parts of machinery, or for changing the direction of motion, by means of a belt, cord, rope, or chain.

Timing pulley mate same-pitch timing belts in power transmission systems in which maintenance of speed ratio is an important design consideration.

A timing pulley transmits force to the belt via evenly spaced grooves, which mate with the teeth on the belt. These same grooves and teeth prevent belt slippage.

Synchronous belt drives are highly efficient and can often run more smoothly and quietly than chain drives. Our timing belts come in extensive array of dimensions, mostly made of polyurethane and neoprene.

定义与用途

同步带是由机轴控制时速，随着凸轮轴同时旋转的带子。它一般和同步带轮成组并运用于动力传送当中。

同步齿轮是指有一定宽度边缘或凹槽边缘的轮子。依靠于带、绳索、或链条，它可以接收和传递动力到不同的机械部分，或改变动力的方向。

在动力传输系统中，同样节距的同步带和同步带设计搭配在速率维持中是考虑的重点。

同步带的传输迫使同步带均匀的经过凹槽间隔，和同步带上的轮齿紧密结合。这些同样大小的凹槽和轮齿预防了同步带的移动。

同步带的运行非常有效，常常可以比链条运行地更平稳和安静。我们的同步带尺寸广泛多样，主要的原材料是聚亚安酯和氯丁（二烯）橡胶。

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带（氯丁二烯橡胶）



▶ Page 146

- ✦ Standard length 标准长度
- ✦ Series / 系列:
 - HTD
 - MXL, XL, L, H, XH
 - RPP

MEGAFLEX- Truly Endless PU Timing Belt

MEGAFLEX - 真正无尽头型同步带（聚胺脂）

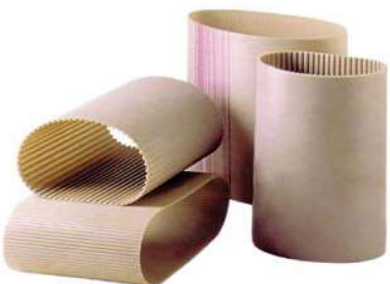


▶ Page 193

- ✦ Can be customized 客制化
- ✦ Length from 1500 to 13,500mm 长度从1500至13,500毫米
- ✦ Series / 系列:
 - T, T_DL
 - AT, AT_DL
 - XL, L, H, XH
 - XL_DL, L_DL
 - H_DL, XH_DL
 - HTD, ATG
 - RPP, RPP_DL

MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带（聚胺脂）



▶ Page 162

- ✦ Standard length 标准长度
- ✦ Series / 系列:
 - T
 - AT
 - MXL, XL, L, H, XH

MEGARIB - PU Endless Transmission Belt

MEGARIB - 无尽头型传送带（聚胺脂）



▶ Page 197

- ✦ Standard length 标准长度
- ✦ Series / 系列:
 - J
 - H
 - TB2

MEGALINEAR - PU Open/Joined Timing Belt

MEGALINEAR - 开口/连口型同步带（聚胺脂）



▶ Page 188

- ✦ Can be customized 可客制化
- ✦ Minimum joint length from 900mm 最短连接长度为900毫米
- ✦ Series / 系列:
 - T
 - AT
 - HTD
 - TG, ATG, HG
 - MXL, XL, L, H, XH
 - STD
 - RPP

Clamping Plate

夹钳金属板



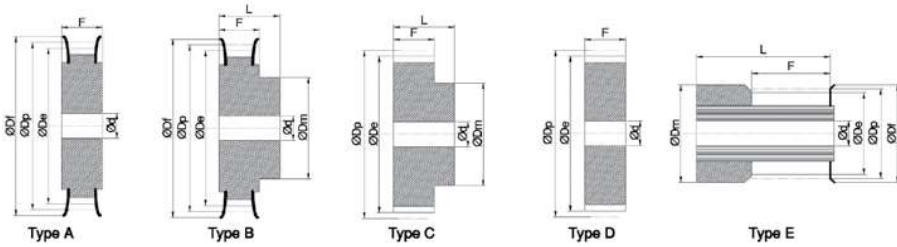
▶ Page 198

- ✦ For open timing belt 用于开口式同步带
- ✦ Can be customized 可客制化
- ✦ Series / 系列:
 - T
 - AT
 - HTD
 - MXL, XL, L, H, XH

Timing Pulleys

同步带轮

◆ HTD 3M Series / 系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Type 类型	Teeth 齿数	Dp	De	Df	Dm	d	For Belt Width / 同步带宽度					
							6 mm		9 mm		15 mm	
							F	L	F	L	F	L
E	10	9.55	8.79	12	12	-	7	14	10.2	17.5	17	26
E	11	10.50	9.74	12	12	-	7	14	10.2	17.5	17	26
E	12	11.46	10.70	15	15	-	7	14	10.2	17.5	17	26
E	13	12.41	11.65	15	15	-	7	14	10.2	17.5	17	26
E	14	13.37	12.61	16	16	-	7	14	10.2	17.5	17	26
E	15	14.32	13.56	17.5	17.5	-	7	14	10.2	17.5	17	26
A, B, C, D	16	15.28	14.52	17.5	10	4	9.8	16	12.8	20.6	19.5	26
A, B, C, D	18	17.19	16.43	19.5	11	6	9.8	16	12.8	20.6	19.5	26
A, B, C, D	20	19.10	18.34	23	13	6	9.8	16	12.8	20.6	19.5	26
A, B, C, D	21	20.05	19.29	25	14	6	9.8	16	12.8	20.6	19.5	26
A, B, C, D	22	21.01	20.25	25	14	6	9.8	16	12.8	20.6	19.5	26
A, B, C, D	24	22.92	22.16	25	14	6	9.8	16	12.8	20.6	19.5	26
A, B, C, D	26	24.83	24.07	28	16	6	9.8	16	12.8	20.6	19.5	26
A, B, C, D	28	26.74	25.98	32	18	6	9.8	16	12.8	20.6	19.5	26
A, B, C, D	30	28.65	27.89	32	20	6	9.8	16	12.8	20.6	19.5	26
A, B, C, D	32	30.56	29.80	36	22	6	9.8	16	12.8	20.6	19.5	26
A, B, C, D	36	34.38	33.62	38	26	6	10.4	17	13.4	22.2	20	30
A, B, C, D	40	38.20	37.44	42	28	6	10.4	17	13.4	22.2	20	30
A, B, C, D	44	42.02	41.26	48	33	6	10.4	17	13.4	22.2	20	30
A, B, C, D	48	45.84	45.08	51	33	8	10.4	17	13.4	22.2	20	30
A, B, C, D	60	57.30	56.54	63	33	8	10.4	17	13.4	22.2	20	30
A, B, C, D	72	68.76	68.00	75	33	8	10.4	17	13.4	22.2	20	30

◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

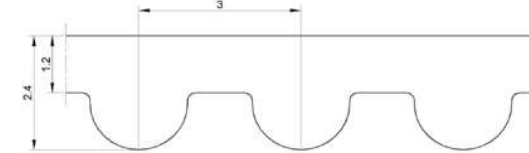
◆ Ordering Example 订购示例: **AL 28 HTD 3M / 06 - A**
 AL - Aluminium / 铝
 ST - Steel / 钢
 No. of Teeth / 齿数 — HTD 3M Series / 系列 — Belt Width / 同步带宽度 = 6mm — Type / 类型: A, B, C, D, E

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带 (氯丁二烯橡胶)

◆ HTD 3M Series / 系列

Material: Neoprene / 材料: 氯丁二烯橡胶



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	6	9	15
Breaking Strength (N) 断裂强度	732	1,098	1,830
Max. Traction Load (N) 最大牵引负载	221	333	560

HTD 3M		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
HTD 3M / 111	111	37
HTD 3M / 117	117	39
HTD 3M / 129	129	43
HTD 3M / 141	141	47
HTD 3M / 144	144	48
HTD 3M / 150	150	50
HTD 3M / 156	156	52
HTD 3M / 159	159	53
HTD 3M / 168	168	56
HTD 3M / 174	174	58
HTD 3M / 177	177	59
HTD 3M / 180	180	60
HTD 3M / 186	186	62
HTD 3M / 192	192	64
HTD 3M / 201	201	67
HTD 3M / 204	204	68
HTD 3M / 210	210	70
HTD 3M / 213	213	71
HTD 3M / 216	216	72
HTD 3M / 225	225	75
HTD 3M / 240	240	80
HTD 3M / 246	246	82
HTD 3M / 252	252	84
HTD 3M / 255	255	85
HTD 3M / 267	267	89
HTD 3M / 285	285	95
HTD 3M / 294	294	98
HTD 3M / 300	300	100
HTD 3M / 312	312	104
HTD 3M / 318	318	106
HTD 3M / 336	336	112
HTD 3M / 339	339	113
HTD 3M / 363	363	121

HTD 3M		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
HTD 3M / 384	384	128
HTD 3M / 390	390	130
HTD 3M / 420	420	140
HTD 3M / 447	447	149
HTD 3M / 474	474	158
HTD 3M / 480	480	160
HTD 3M / 486	486	162
HTD 3M / 495	495	165
HTD 3M / 501	501	167
HTD 3M / 513	513	171
HTD 3M / 522	522	174
HTD 3M / 525	525	175
HTD 3M / 531	531	177
HTD 3M / 537	537	179
HTD 3M / 564	564	188
HTD 3M / 570	570	190
HTD 3M / 597	597	199
HTD 3M / 600	600	200
HTD 3M / 606	606	202
HTD 3M / 612	612	204

HTD 3M		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
HTD 3M / 633	633	211
HTD 3M / 669	669	223
HTD 3M / 708	708	236
HTD 3M / 711	711	237
HTD 3M / 738	738	246
HTD 3M / 753	753	251
HTD 3M / 822	822	274
HTD 3M / 843	843	281
HTD 3M / 882	882	294
HTD 3M / 945	945	315
HTD 3M / 1041	1,041	347
HTD 3M / 1068	1,068	356
HTD 3M / 1071	1,071	357
HTD 3M / 1125	1,125	375
HTD 3M / 1176	1,176	392
HTD 3M / 1245	1,245	415
HTD 3M / 1263	1,263	421
HTD 3M / 1500	1,500	500
HTD 3M / 1530	1,530	510
HTD 3M / 1569	1,569	523

ORDERING EXAMPLE
订购示例

12 HTD 3M / 225 - NP

Belt Width / 同步带宽 —
 HTD 3M Series / 系列 —
 Pitch Length / 节距长度 —
 Material: Neoprene
 材料: 氯丁二烯橡胶

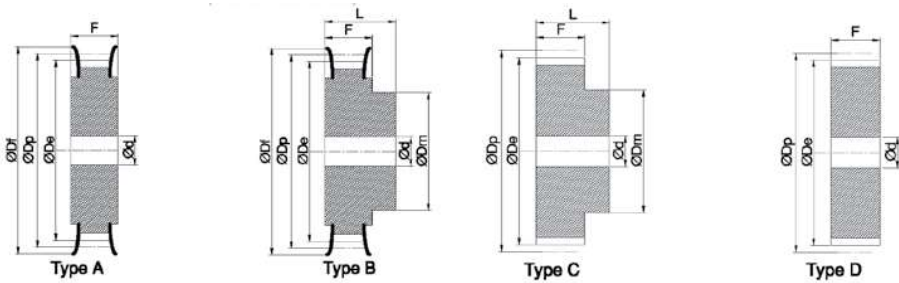
Power Transmission
动力传输

Power Transmission
动力传输

Timing Pulleys

同步带轮

◆ HTD 5M Series / 系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Type 类型	Teeth 齿数	Dp	De	Df	Dm	d	For Belt Width / 同步带宽度					
							9 mm		15 mm		25 mm	
							F	L	F	L	F	L
A, B, C, D	12	19.10	17.96	23	13	4	14.5	20	20.5	26	30.5	36
A, B, C, D	13	20.69	19.55	25	14	5	14.5	20	20.5	26	30.5	36
A, B, C, D	14	22.28	21.14	25	14	5	14.5	20	20.5	26	30.5	36
A, B, C, D	15	23.87	22.73	28	16	5	14.5	20	20.5	26	30.5	36
A, B, C, D	16	25.47	24.33	28	16.5	5	14.5	20	20.5	26	30.5	36
A, B, C, D	18	28.65	27.51	32	20	5	14.5	20	20.5	26	30.5	36
A, B, C, D	20	31.83	30.69	36	23	5	14.5	25.5	20.5	26	30.5	36
A, B, C, D	21	33.42	32.28	38	24	6	14.5	25.5	20.5	26	30.5	38
A, B, C, D	22	35.02	33.88	38	25.5	6	14.5	25.5	20.5	26	30.5	38
A, B, C, D	24	38.20	37.06	42	27	6	14.5	25.5	20.5	28	30.5	38
A, B, C, D	26	41.38	40.24	44	30	6	14.5	25.5	20.5	28	30.5	38
A, B, C, D	28	44.56	43.42	48	30.5	6	14.5	25.5	20.5	28	30.5	38
A, B, C, D	30	47.75	46.61	51	35	6	14.5	25.5	20.5	28	30.5	38
A, B, C, D	32	50.93	49.79	54	38	8	14.5	25.5	20.5	28	30.5	38
A, B, C, D	36	57.30	56.16	60	38	8	14.5	25.5	20.5	28	30.5	38
A, B, C, D	40	63.66	62.52	71	38	8	14.5	25.5	20.5	28	30.5	38
A, B, C, D	44	70.03	68.89	75	38	8	14.5	25.5	20.5	30	30.5	40
A, B, C, D	48	76.40	75.26	83	45	8	14.5	25.5	20.5	30	30.5	40
A, B, C, D	60	95.50	94.36	103	45	8	14.5	25.5	20.5	30	30.5	40
A, B, C, D	72	114.59	113.45	123	45	8	14.5	25.5	20.5	30	30.5	40

◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

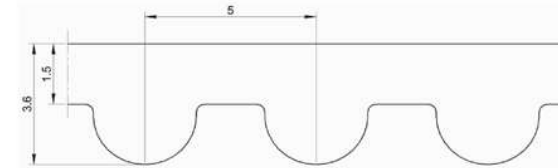
◆ Ordering Example 订购示例: **ST 28 HTD 5M / 15 - B**
 AL - Aluminium / 铝
 ST - Steel / 钢
 No. of Teeth / 齿数 HTD 5M Series / 系列 Belt Width / 同步带宽度 = 9mm
 Type / 类型: A, B, C, D

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带 (氯丁二烯橡胶)

◆ HTD 5M Series / 系列

Material: Neoprene / 材料: 氯丁二烯橡胶



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	9	15	25
Breaking Strength (N) 断裂强度	1,850	3,675	6,370
Max. Traction Load (N) 最大牵引负载	600	1,180	2,050

HTD 5M		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
HTD 5M / 225	225	45
HTD 5M / 265	265	53
HTD 5M / 275	275	55
HTD 5M / 295	295	59
HTD 5M / 300	300	60
HTD 5M / 330	330	66
HTD 5M / 350	350	70
HTD 5M / 375	375	75
HTD 5M / 400	400	80
HTD 5M / 425	425	85
HTD 5M / 450	450	90
HTD 5M / 460	460	92
HTD 5M / 475	475	95
HTD 5M / 500	500	100
HTD 5M / 525	525	105
HTD 5M / 535	535	107
HTD 5M / 550	550	110
HTD 5M / 565	565	113
HTD 5M / 580	580	116
HTD 5M / 600	600	120
HTD 5M / 615	615	123
HTD 5M / 620	620	124
HTD 5M / 665	665	133
HTD 5M / 700	700	140
HTD 5M / 710	710	142
HTD 5M / 740	740	148
HTD 5M / 755	755	151
HTD 5M / 800	800	160
HTD 5M / 835	835	167
HTD 5M / 890	890	178
HTD 5M / 900	900	180
HTD 5M / 925	925	185
HTD 5M / 950	950	190
HTD 5M / 1000	1,000	200
HTD 5M / 1050	1,050	210
HTD 5M / 1125	1,125	225
HTD 5M / 1270	1,270	254

HTD 5M		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
HTD 5M / 1420	1420	284
HTD 5M / 1500	1500	300
HTD 5M / 1595	1,595	319
HTD 5M / 1790	1,790	358
HTD 5M / 1800	1,800	360
HTD 5M / 1870	1,870	374
HTD 5M / 2000	2,000	400
HTD 5M / 2525	2,525	505

ORDERING EXAMPLE
订购示例

15 HTD 5M / 330 - NP

Belt Width / 同步带宽
HTD 5M Series / 系列
Pitch Length / 节距长度
Material: Neoprene
材料: 氯丁二烯橡胶

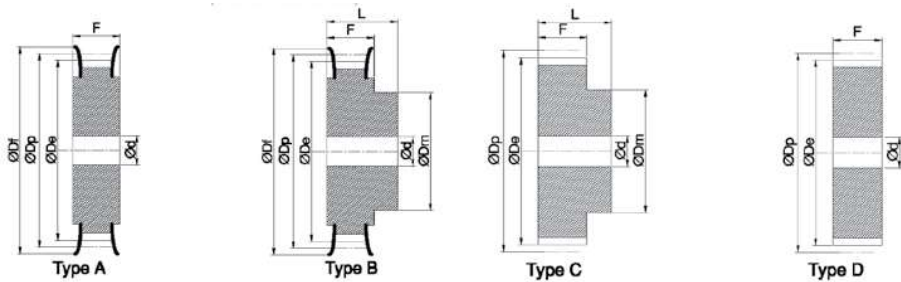
Power Transmission
动力传输

Power Transmission
动力传输

Timing Pulleys

同步带轮

◆ HTD 8M Series / 系列



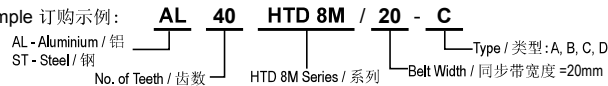
◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Type 类型	Teeth 齿数	Dp	De	Df	Dm	For Belt Width / 同步带宽度											
						20 mm			30 mm			50 mm			85 mm		
						d	F	L	d	F	L	d	F	L	d	F	L
A, B, C, D	18	45.84	44.47	48	32	10	28	38	12	38	48	12	60	70	12	95	105
A, B, C, D	19	48.38	47.01	51	32	10	28	38	12	38	48	12	60	70	12	95	105
A, B, C, D	20	50.93	49.56	54	35	10	28	38	12	38	48	12	60	70	12	95	105
A, B, C, D	21	53.48	52.11	57	40	10	28	38	12	38	48	12	60	70	12	95	105
A, B, C, D	22	56.02	54.65	60	43	12	28	38	12	38	48	12	60	70	12	95	105
A, B, C, D	24	61.12	59.75	66	45	12	28	38	12	38	48	12	60	70	12	95	105
A, B, C, D	26	66.21	64.84	71	50	12	28	38	12	38	48	12	60	70	12	95	105
A, B, C, D	28	71.30	69.93	75	50	15	28	38	15	38	48	15	60	70	15	95	105
A, B, C, D	30	76.40	75.03	83	55	15	28	38	15	38	48	15	60	70	15	95	105
A, B, C, D	32	81.49	80.12	87	60	15	28	38	15	38	48	15	60	70	15	95	105
A, B, C, D	34	86.58	85.21	91	70	15	28	38	15	38	48	15	60	70	15	95	105
A, B, C, D	36	91.68	90.31	97	70	15	28	38	15	38	48	15	60	70	15	95	105
A, B, C, D	38	96.77	95.40	103	75	15	28	38	15	38	48	15	60	70	15	95	105
A, B, C, D	40	101.86	100.49	106	75	15	28	38	15	38	48	20	60	70	20	95	105
A, B, C, D	44	112.05	110.68	119	75	15	28	38	15	38	48	20	60	70	20	95	105
A, B, C, D	48	122.23	120.86	127	75	15	28	38	15	38	48	20	60	70	20	95	105
A, B, C, D	56	142.61	141.24	148	80	15	28	38	15	38	48	20	60	70	20	95	105
A, B, C, D	64	162.98	161.61	168	80	15	28	38	15	38	48	20	60	70	20	95	95
A, B, C, D	72	183.35	181.98	192	80	15	28	38	15	38	48	20	60	70	20	95	95
A, B, C, D	80	203.72	202.35	-	90	15	28	38	15	38	48	20	60	70	20	95	95
A, B, C, D	90	229.19	227.82	-	90	15	28	38	15	38	48	20	60	70	20	95	95
A, B, C, D	112	285.21	283.84	-	90	18	28	38	18	38	48	20	60	70	20	95	95
A, B, C, D	144	366.70	365.33	-	90	20	28	38	20	38	48	20	60	70	20	95	95
A, B, C, D	168	427.82	426.45	-	100	20	28	38	20	38	48	20	60	70	20	95	95
A, B, C, D	192	488.94	487.57	-	100	20	28	38	20	38	48	20	60	70	20	95	95

◆ Non-standard Timing Pulleys can be machined on request - Please contact us. 可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例:

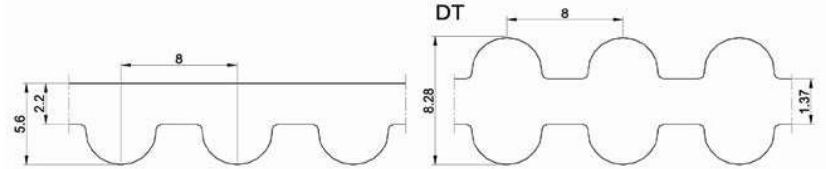


Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带 (氯丁二烯橡胶)

◆ HTD 8M Series / 系列

Material: Neoprene / 材料: 氯丁二烯橡胶



◆ Specifications 规格

Unit 单位: mm 毫米

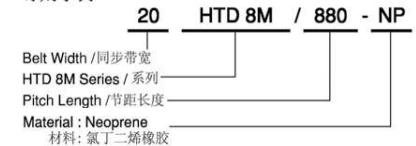
Standard Belt Width (mm) 标准带宽	20	30	50	85
Breaking Strength (N) 断裂强度	9,960	14,940	27,400	47,320
Max. Traction Load (N) 最大牵引负载	2,920	4,390	8,050	13,900

HTD 8M		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
HTD 8M / 376	376	47
HTD 8M / 424	424	53
HTD 8M / 472	472	59
HTD 8M / 480	480	60
HTD 8M / 560	560	70
HTD 8M / 600	600	75
HTD 8M / 624	624	78
HTD 8M / 640	640	80
HTD 8M / 656	656	82
HTD 8M / 720	720	90
HTD 8M / 776	776	97
HTD 8M / 784	784	98
HTD 8M / 800	800	100
HTD 8M / 880	880	110
HTD 8M / 912	912	114
HTD 8M / 920	920	115
HTD 8M / 960	960	120
HTD 8M / 1040	1,040	130
HTD 8M / 1120	1,120	140
HTD 8M / 1200	1,200	150
HTD 8M / 1280	1,280	160
HTD 8M / 1304	1,304	163
HTD 8M / 1328	1,328	166
HTD 8M / 1360	1,360	170
HTD 8M / 1424	1,424	178
HTD 8M / 1440	1,440	180
HTD 8M / 1600	1,600	200
HTD 8M / 1760	1,760	220
HTD 8M / 1800	1,800	225
HTD 8M / 2248	2,248	281
HTD 8M / 2400	2,400	300
HTD 8M / 2800	2,800	350

DT - HTD 8M		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
DT - HTD 8M / 480	480	60
DT - HTD 8M / 560	560	70
DT - HTD 8M / 600	600	75
DT - HTD 8M / 640	640	80
DT - HTD 8M / 720	720	90
DT - HTD 8M / 800	800	100
DT - HTD 8M / 880	880	110
DT - HTD 8M / 960	960	120
DT - HTD 8M / 1040	1,040	130
DT - HTD 8M / 1120	1,120	140
DT - HTD 8M / 1200	1,200	150
DT - HTD 8M / 1280	1,280	160
DT - HTD 8M / 1440	1,440	180
DT - HTD 8M / 1600	1,600	200
DT - HTD 8M / 1760	1,760	220
DT - HTD 8M / 1800	1,800	225
DT - HTD 8M / 2000	2,000	250
DT - HTD 8M / 2400	2,400	300
DT - HTD 8M / 2600	2,600	325
DT - HTD 8M / 2800	2,800	350
DT - HTD 8M / 3048	3,048	381
DT - HTD 8M / 3280	3,280	410
DT - HTD 8M / 3600	3,600	450
DT - HTD 8M / 4400	4,400	550
DT - HTD 8M / 4960	4,960	620

ORDERING EXAMPLE

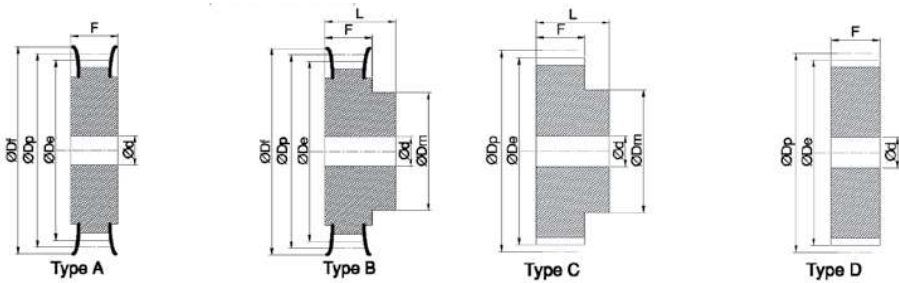
订购示例



Timing Pulleys

同步带轮

◆ HTD 14M Series / 系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Type 类型	Teeth 齿数	Dp	De	Df	Dm	d	For Belt Width / 同步带宽度															
							40 mm			50 mm			85 mm			115 mm			170 mm			
							F	L	F	L	Dm	d	F	L	Dm	d	F	L	Dm	d	F	L
A, B, C, D	28	124.78	121.98	127	100	24	54	69	70	85	100	24	102	117	100	32	133	148	100	32	187	202
A, B, C, D	29	129.24	126.44	138	100	24	54	69	70	85	100	24	102	117	100	32	133	148	100	32	187	202
A, B, C, D	30	133.69	130.89	138	100	24	54	69	70	85	100	24	102	117	100	32	133	148	100	32	187	202
A, B, C, D	32	142.61	139.81	154	100	24	54	69	70	85	100	24	102	117	100	32	133	148	100	32	187	202
A, B, C, D	34	151.52	148.72	160	100	24	54	69	70	85	100	24	102	117	100	32	133	148	100	32	187	202
A, B, C, D	36	160.43	157.63	168	100	24	54	69	70	85	100	24	102	117	120	32	133	148	120	32	187	202
A, B, C, D	38	169.35	166.55	183	120	24	54	69	70	85	120	24	102	117	120	32	133	148	135	32	187	202
A, B, C, D	40	178.26	175.46	190	120	24	54	69	70	85	135	24	102	117	135	32	133	148	140	32	187	202
A, B, C, D	44	196.08	193.28	211	120	24	54	69	70	85	135	24	102	117	140	32	133	148	160	32	187	202
A, B, C, D	48	213.91	211.11	225	135	24	54	69	70	85	150	24	102	117	150	32	133	148	160	32	187	202
A, B, C, D	56	249.56	246.76	256	135	28	54	69	70	85	150	28	102	117	150	32	133	148	160	32	187	202
A, B, C, D	64	285.21	282.41	296	135	28	54	69	70	85	150	28	102	117	150	32	133	148	180	32	187	202
A, B, C, D	72	320.87	318.07	-	135	28	54	69	70	85	150	28	102	117	150	32	133	148	180	32	187	202
A, B, C, D	80	356.52	353.72	-	135	28	54	69	70	85	150	28	102	117	150	32	133	148	180	32	187	202
A, B, C, D	90	401.08	398.28	-	135	28	54	69	70	85	150	28	102	117	150	32	133	148	180	38	187	202
A, B, C, D	112	499.12	496.32	-	135	28	54	69	70	85	150	28	102	117	150	32	133	148	200	38	187	202
A, B, C, D	144	641.73	638.93	-	135	28	54	69	70	85	150	28	102	117	165	32	133	148	220	38	187	202
A, B, C, D	168	748.69	745.89	-	135	28	54	69	70	85	150	28	102	117	165	32	133	148	220	38	187	202
A, B, C, D	192	855.64	852.84	-	135	28	54	69	70	85	165	28	102	117	165	32	133	148	220	38	187	202
A, B, C, D	216	962.59	959.80	-	150	28	54	69	70	85	165	28	102	117	165	32	133	148	220	38	187	202

◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例:

AL - Aluminium / 铝
ST - Steel / 钢

ST 28 HTD 14M / 40 - D

No. of Teeth / 齿数 HTD 14M Series / 系列 Belt Width / 同步带宽度 = 40mm

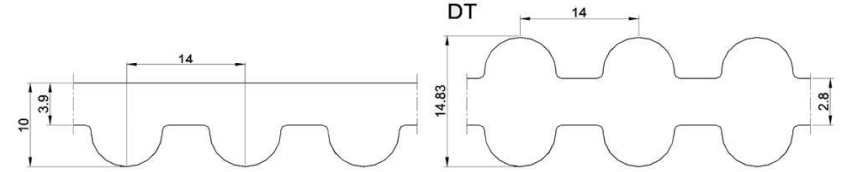
Type / 类型: A, B, C, D

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带 (氯丁二烯橡胶)

◆ HTD 14M Series / 系列

Material: Neoprene / 材料: 氯丁二烯橡胶



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	40	55	85	115
Breaking Strength (N) 断裂强度	30,200	37,760	67,960	87,400
Max. Traction Load (N) 最大牵引负载	9,260	11,570	20,830	28,800

HTD 14M		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
HTD 14M / 966	966	69
HTD 14M / 1190	1,190	85
HTD 14M / 1610	1,610	115
HTD 14M / 1890	1,890	135
HTD 14M / 2100	2,100	150
HTD 14M / 2310	2,310	165
HTD 14M / 2590	2,590	185
HTD 14M / 2800	2,800	200
HTD 14M / 3150	3,150	225
HTD 14M / 3850	3,850	275
HTD 14M / 4326	4,326	309
HTD 14M / 4578	4,578	327

HTD 14M		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
DT - HTD 14M / 1610	1,610	115
DT - HTD 14M / 1778	1,778	127
DT - HTD 14M / 1890	1,890	135
DT - HTD 14M / 2100	2,100	150
DT - HTD 14M / 2310	2,310	165
DT - HTD 14M / 2450	2,450	175
DT - HTD 14M / 2590	2,590	185
DT - HTD 14M / 2800	2,800	200
DT - HTD 14M / 3150	3,150	225
DT - HTD 14M / 3360	3,360	240
DT - HTD 14M / 3500	3,500	250
DT - HTD 14M / 3850	3,850	275
DT - HTD 14M / 4326	4,326	309
DT - HTD 14M / 4578	4,578	327
DT - HTD 14M / 4956	4,956	354
DT - HTD 14M / 5320	5,320	380
DT - HTD 14M / 5740	5,740	410
DT - HTD 14M / 6160	6,160	440
DT - HTD 14M / 6860	6,860	490

ORDERING EXAMPLE

订购示例

40 HTD 14M / 1190 - NP

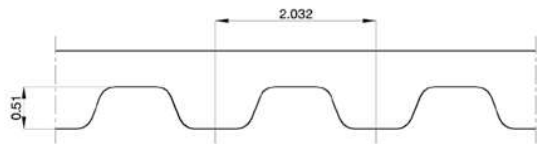
Belt Width / 同步带宽
HTD 14M Series / 系列
Pitch Length / 节距长度
Material: Neoprene
材料: 氯丁二烯橡胶

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带（氯丁二烯橡胶）

◆ **MXL Series / 系列**

Material: Neoprene / 材料: 氯丁二烯橡胶



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	012 (3.175 mm)	019 (4.75 mm)	025 (6.35 mm)	037 (9.5 mm)
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Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
45 MXL	3.60	91.44	45
48 MXL	3.84	97.54	48
50 MXL	4.00	101.60	50
52 MXL	4.16	105.66	52
55 MXL	4.40	111.76	55
57 MXL	4.56	115.82	57
60 MXL	4.80	121.92	60
62 MXL	4.96	125.98	62
65 MXL	5.20	132.08	65
68 MXL	5.44	138.18	68
70 MXL	5.60	142.24	70
72 MXL	5.76	146.30	72
75 MXL	6.00	152.40	75
78 MXL	6.24	158.50	78
80 MXL	6.40	162.56	80
82 MXL	6.56	166.62	82
85 MXL	6.80	172.72	85
88 MXL	7.04	178.82	88
90 MXL	7.20	182.88	90
92 MXL	7.36	186.94	92
95 MXL	7.60	193.04	95
98 MXL	7.84	199.14	98
100 MXL	8.00	203.20	100
103 MXL	8.24	209.30	103
105 MXL	8.40	213.36	105
108 MXL	8.64	219.46	108
110 MXL	8.80	223.52	110
112 MXL	8.96	227.58	112
115 MXL	9.20	233.68	115
118 MXL	9.44	239.78	118
120 MXL	9.60	243.84	120
122 MXL	9.76	247.90	122
125 MXL	10.00	254.00	125
128 MXL	10.24	260.10	128
130 MXL	10.40	264.16	130
132 MXL	10.56	268.22	132
135 MXL	10.80	274.32	135
138 MXL	11.04	280.42	138
140 MXL	11.20	284.48	140

Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
144 MXL	11.52	292.61	144
146 MXL	11.68	296.67	146
150 MXL	12.00	304.80	150
155 MXL	12.40	314.96	155
158 MXL	12.64	321.06	158
160 MXL	12.80	325.12	160
162 MXL	12.96	329.18	162
165 MXL	13.20	335.28	165
170 MXL	13.60	345.44	170
175 MXL	14.00	355.60	175
180 MXL	14.40	365.76	180
184 MXL	14.72	373.89	184
188 MXL	15.04	382.02	188
190 MXL	15.20	386.08	190
195 MXL	15.60	396.24	195
200 MXL	16.00	406.40	200
205 MXL	16.40	416.56	205
210 MXL	16.80	426.72	210
215 MXL	17.20	436.88	215
220 MXL	17.60	447.04	220
225 MXL	18.00	457.20	225
230 MXL	18.40	467.36	230
234 MXL	18.72	475.49	234
236 MXL	18.88	479.55	236
240 MXL	19.20	487.68	240
245 MXL	19.60	497.84	245
248 MXL	19.84	503.94	248
250 MXL	20.00	508.00	250
256 MXL	20.48	520.19	256
260 MXL	20.80	528.32	260
265 MXL	21.20	538.48	265
275 MXL	22.00	558.80	275
280 MXL	22.40	568.96	280
290 MXL	23.20	589.28	290
295 MXL	23.60	599.44	295
300 MXL	24.00	609.60	300
305 MXL	24.40	619.76	305
310 MXL	24.80	629.92	310
315 MXL	25.20	640.08	315

Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
320 MXL	25.60	650.24	320
326 MXL	26.08	662.43	326
330 MXL	26.40	670.56	330
336 MXL	26.88	682.75	336
347 MXL	27.76	705.10	347
350 MXL	28.00	711.20	350
355 MXL	28.40	721.36	355
360 MXL	28.80	731.52	360
365 MXL	29.20	741.68	365
380 MXL	30.40	772.16	380
400 MXL	32.00	812.80	400
410 MXL	32.80	833.12	410
425 MXL	34.00	863.60	425
435 MXL	34.80	883.92	435
448 MXL	35.84	910.34	448
453 MXL	36.24	920.50	453
468 MXL	37.44	950.98	468
475 MXL	38.00	965.20	475
480 MXL	38.40	975.36	480
500 MXL	40.00	1,016.00	500
522 MXL	41.76	1,060.70	522
525 MXL	42.00	1,066.80	525
535 MXL	42.80	1,087.12	535
550 MXL	44.00	1,117.60	550
665 MXL	53.20	1,351.28	665

ORDERING EXAMPLE 订购示例

180 MXL / 025 - NP

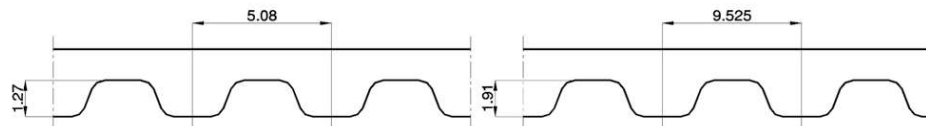
Pitch Length / 节距长度
MXL Series / 系列
Belt Width / 同步带宽
Material: Neoprene
材料: 氯丁二烯橡胶

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带（氯丁二烯橡胶）

◆ **XL & L Series / 系列**

Material: Neoprene / 材料: 氯丁二烯橡胶



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	025 (6.35 mm)	037 (9.53 mm)	050 (12.7 mm)	075 (19 mm)	100 (25.4 mm)
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Standard Belt Width (mm) 标准带宽	050 (12.7 mm)	075 (19 mm)	100 (25.4 mm)	150 (38.1 mm)
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Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
54 XL	5.40	137.16	27
60 XL	6.00	152.40	30
70 XL	7.00	177.80	35
80 XL	8.00	203.20	40
90 XL	9.00	228.60	45
98 XL	9.80	248.92	49
100 XL	10.00	254.00	50
102 XL	10.20	259.08	51
106 XL	10.60	269.24	53
110 XL	11.00	279.40	55
120 XL	12.00	304.80	60
130 XL	13.00	330.20	65
140 XL	14.00	355.60	70
150 XL	15.00	381.00	75
156 XL	15.60	396.24	78
160 XL	16.00	406.40	80
170 XL	17.00	431.80	85
180 XL	18.00	457.20	90
182 XL	18.20	462.28	91
190 XL	19.00	482.60	95
198 XL	19.80	502.92	99
200 XL	20.00	508.00	100
202 XL	20.20	513.08	101
210 XL	21.00	533.40	105
212 XL	21.20	538.48	106
214 XL	21.40	543.56	107
220 XL	22.00	558.80	110
228 XL	22.80	579.12	114
230 XL	23.00	584.20	115
234 XL	23.40	594.36	117
240 XL	24.00	609.60	120
250 XL	25.00	635.00	125
260 XL	26.00	660.40	130
270 XL	27.00	685.80	135

Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
276 XL	27.60	701.04	138
290 XL	29.00	736.60	145
310 XL	31.00	787.40	155
316 XL	31.60	802.64	158
320 XL	32.00	812.80	160
330 XL	33.00	838.20	165
344 XL	34.40	873.76	172
352 XL	35.20	894.08	176
364 XL	36.40	924.56	182
380 XL	38.00	965.20	190
384 XL	38.40	975.36	192
390 XL	39.00	990.60	195
392 XL	39.20	995.68	196
434 XL	43.40	1,102.36	217
530 XL	53.00	1,346.20	265
600 XL	60.00	1,524.00	300
710 XL	71.00	1,803.40	355

Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
124 L	12.40	314.33	33
135 L	13.50	342.90	36
150 L	15.00	381.00	40
173 L	17.30	438.15	46
187 L	18.70	476.25	50
202 L	20.20	514.35	54
210 L	21.00	533.40	56
225 L	22.50	571.50	60
240 L	24.00	609.60	64
255 L	25.50	647.70	68
270 L	27.00	685.80	72
285 L	28.50	723.90	76
300 L	30.00	762.00	80
322 L	32.20	819.15	86
345 L	34.50	876.30	92
367 L	36.70	933.45	98
390 L	39.00	990.60	104
405 L	40.50	1,028.70	108
412 L	41.20	1,047.75	110
420 L	42.00	1,066.80	112
450 L	45.00	1,143.00	120
480 L	48.00	1,219.20	128
510 L	51.00	1,295.40	136
540 L	54.00	1,371.60	144
728 L	72.80	1,847.85	194
817 L	81.70	2,076.45	218

ORDERING EXAMPLE 订购示例

100 XL / 025 - NP

Pitch Length / 节距长度
XL/L Series / 系列
Belt Width / 同步带宽
Material: Neoprene
材料: 氯丁二烯橡胶

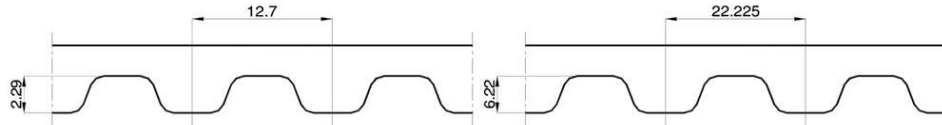
Power Transmission
动力传输

Power Transmission
动力传输

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带（氯丁二烯橡胶）

◆ H & XH Series / 系列
Material: Neoprene / 材料: 氯丁二烯橡胶



◆ Specifications 规格 Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	075 (19 mm)	100 (25.4 mm)	150 (38.1 mm)	200 (50.8 mm)
Standard Belt Width (mm) 标准带宽	300 (76.2 mm)	400 (101.6 mm)	500 (127 mm)	600 (152.4 mm)

H (Pitch 节距 = 0.5" / 12.7mm)			
Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
225 H	22.50	571.50	45
230 H	23.00	584.20	46
240 H	24.00	609.60	48
245 H	24.50	622.30	49
255 H	25.50	647.70	51
270 H	27.00	685.80	54
280 H	28.00	711.20	56
300 H	30.00	762.00	60
310 H	31.00	787.40	62
320 H	32.00	812.80	64
330 H	33.00	838.20	66
340 H	34.00	863.60	68
350 H	35.00	889.00	70
360 H	36.00	914.40	72
370 H	37.00	939.80	74
375 H	37.50	952.50	75
390 H	39.00	990.60	78
400 H	40.00	1,016.00	80
420 H	42.00	1,066.80	84
430 H	43.00	1,092.20	86
450 H	45.00	1,143.00	90
480 H	48.00	1,219.20	96
490 H	49.00	1,244.60	98
510 H	51.00	1,295.40	102
530 H	53.00	1,346.20	106
540 H	54.00	1,371.60	108
560 H	56.00	1,422.40	112
570 H	57.00	1,447.80	114
580 H	58.00	1,473.20	116
600 H	60.00	1,524.00	120
630 H	63.00	1,600.20	126
660 H	66.00	1,676.40	132
680 H	68.00	1,727.20	136
700 H	70.00	1,778.00	140
725 H	72.50	1,841.50	145
750 H	75.00	1,905.00	150
760 H	76.00	1,930.40	152

H (Pitch 节距 = 0.5" / 12.7mm)			
Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
770 H	77.00	1,955.80	154
800 H	80.00	2,032.00	160
810 H	81.00	2,057.40	162
820 H	82.00	2,082.80	164
840 H	84.00	2,133.60	168
850 H	85.00	2,159.00	170
860 H	86.00	2,184.40	172
880 H	88.00	2,235.20	176
900 H	90.00	2,286.00	180
950 H	95.00	2,413.00	190
985 H	98.50	2,501.90	197
1000 H	100.00	2,540.00	200
1020 H	102.00	2,590.80	204
1050 H	105.00	2,667.00	210
1100 H	110.00	2,794.00	220
1120 H	112.00	2,844.80	224
1130 H	113.00	2,870.20	226
1140 H	114.00	2,895.60	228
1150 H	115.00	2,921.00	230
1250 H	125.00	3,175.00	250
1325 H	132.50	3,365.50	265
1360 H	136.00	3,454.40	272
1400 H	140.00	3,556.00	280
1700 H	170.00	4,318.00	340

XH (Pitch 节距 = 0.875" / 22.225mm)			
Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
463 XH	46.30	1,177.93	53
507 XH	50.70	1,289.05	58
534 XH	53.40	1,356.36	61
560 XH	56.00	1,422.40	64
630 XH	63.00	1,600.20	72
700 XH	70.00	1,778.00	80
735 XH	73.50	1,866.90	84
770 XH	77.00	1,955.80	88
840 XH	84.00	2,133.60	96
875 XH	87.50	2,222.50	100
927 XH	92.70	2,355.85	106
980 XH	98.00	2,489.20	112
1120 XH	112.00	2,844.80	128
1260 XH	126.00	3,200.40	144
1400 XH	140.00	3,556.00	160
1540 XH	154.00	3,911.60	176
1640 XH	164.00	4,165.60	187
1750 XH	175.00	4,445.00	200

ORDERING EXAMPLE 订购示例

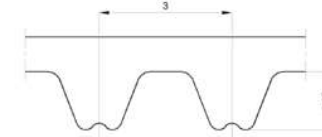
270 XH / 075 - NP

Pitch Length / 节距长度: 270
 H/XH Series / 系列: XH
 Belt Width / 同步带宽: 075
 Material: Neoprene
 材料: 氯丁二烯橡胶

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带（氯丁二烯橡胶）

◆ RPP 3 Series / 系列
Material: Neoprene / 材料: 氯丁二烯橡胶



RPP 3		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
RPP 3 / 90	90	30
RPP 3 / 105	105	35
RPP 3 / 129	129	43
RPP 3 / 141	141	47
RPP 3 / 144	144	48
RPP 3 / 147	147	49
RPP 3 / 150	150	50
RPP 3 / 159	159	53
RPP 3 / 168	168	56
RPP 3 / 174	174	58
RPP 3 / 177	177	59
RPP 3 / 180	180	60
RPP 3 / 186	186	62
RPP 3 / 195	195	65
RPP 3 / 201	201	67
RPP 3 / 204	204	68
RPP 3 / 210	210	70
RPP 3 / 213	213	71
RPP 3 / 225	225	75
RPP 3 / 231	231	77
RPP 3 / 240	240	80
RPP 3 / 243	243	81
RPP 3 / 246	246	82
RPP 3 / 252	252	84
RPP 3 / 255	255	85
RPP 3 / 264	264	88
RPP 3 / 267	267	89
RPP 3 / 270	270	90
RPP 3 / 276	276	92
RPP 3 / 285	285	95
RPP 3 / 288	288	96
RPP 3 / 291	291	97

RPP 3		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
RPP 3 / 297	297	99
RPP 3 / 300	300	100
RPP 3 / 312	312	104
RPP 3 / 318	318	106
RPP 3 / 327	327	109
RPP 3 / 330	330	110
RPP 3 / 336	336	112
RPP 3 / 339	339	113
RPP 3 / 345	345	115
RPP 3 / 357	357	119
RPP 3 / 363	363	121
RPP 3 / 375	375	125
RPP 3 / 384	384	128
RPP 3 / 390	390	130
RPP 3 / 393	393	131
RPP 3 / 405	405	135
RPP 3 / 420	420	140
RPP 3 / 432	432	144
RPP 3 / 447	447	149
RPP 3 / 465	465	155
RPP 3 / 474	474	158
RPP 3 / 480	480	160
RPP 3 / 486	486	162
RPP 3 / 489	489	163
RPP 3 / 501	501	167
RPP 3 / 510	510	170
RPP 3 / 513	513	171

RPP 3		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
RPP 3 / 522	522	174
RPP 3 / 531	531	177
RPP 3 / 537	537	179
RPP 3 / 564	564	188
RPP 3 / 570	570	190
RPP 3 / 576	576	192
RPP 3 / 579	579	193
RPP 3 / 597	597	199
RPP 3 / 600	600	200
RPP 3 / 633	633	211
RPP 3 / 648	648	216
RPP 3 / 669	669	223
RPP 3 / 711	711	237
RPP 3 / 735	735	245
RPP 3 / 738	738	246
RPP 3 / 756	756	252
RPP 3 / 804	804	268
RPP 3 / 882	882	294
RPP 3 / 945	945	315
RPP 3 / 1062	1062	354
RPP 3 / 1125	1125	375
RPP 3 / 1245	1245	415
RPP 3 / 1263	1263	421
RPP 3 / 1500	1500	500
RPP 3 / 1530	1530	510
RPP 3 / 1863	1863	621

ORDERING EXAMPLE 订购示例

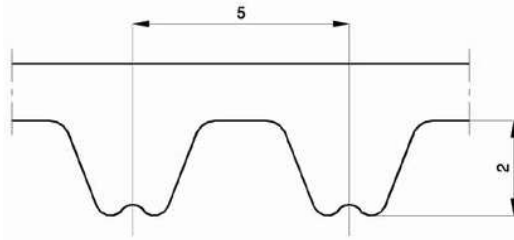
12 RPP 3 / 288 - NP

Belt Width / 同步带宽: 12
 RPP 3 Series / 系列: RPP 3
 Pitch Length / 节距长度: 288
 Material: Neoprene
 材料: 氯丁二烯橡胶

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带（氯丁二烯橡胶）

◆ RPP 5 Series / 系列
Material: Neoprene / 材料: 氯丁二烯橡胶



RPP 5		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
RPP 5 / 180	180	36
RPP 5 / 225	225	45
RPP 5 / 235	235	47
RPP 5 / 245	245	49
RPP 5 / 255	255	51
RPP 5 / 265	265	53
RPP 5 / 270	270	54
RPP 5 / 285	285	57
RPP 5 / 295	295	59
RPP 5 / 300	300	60
RPP 5 / 325	325	65
RPP 5 / 345	345	69
RPP 5 / 350	350	70
RPP 5 / 375	375	75
RPP 5 / 400	400	80
RPP 5 / 420	420	84
RPP 5 / 425	425	85
RPP 5 / 450	450	90
RPP 5 / 455	455	91
RPP 5 / 460	460	92
RPP 5 / 465	465	93
RPP 5 / 475	475	95
RPP 5 / 500	500	100

RPP 5		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
RPP 5 / 525	525	105
RPP 5 / 535	535	107
RPP 5 / 565	565	113
RPP 5 / 575	575	115
RPP 5 / 580	580	116
RPP 5 / 600	600	120
RPP 5 / 610	610	122
RPP 5 / 635	635	127
RPP 5 / 640	640	128
RPP 5 / 675	675	135
RPP 5 / 700	700	140
RPP 5 / 705	705	141
RPP 5 / 710	710	142
RPP 5 / 725	725	145
RPP 5 / 740	740	148
RPP 5 / 755	755	151
RPP 5 / 800	800	160
RPP 5 / 835	835	167
RPP 5 / 850	850	170
RPP 5 / 890	890	178
RPP 5 / 900	900	180

RPP 5		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
RPP 5 / 935	935	187
RPP 5 / 940	940	188
RPP 5 / 950	950	190
RPP 5 / 980	980	196
RPP 5 / 1000	1000	200
RPP 5 / 1050	1050	210
RPP 5 / 1100	1100	220
RPP 5 / 1125	1125	225
RPP 5 / 1195	1195	239
RPP 5 / 1200	1200	240
RPP 5 / 1240	1240	248
RPP 5 / 1270	1270	254
RPP 5 / 1420	1420	284
RPP 5 / 1595	1595	319
RPP 5 / 1690	1690	338
RPP 5 / 1790	1790	358
RPP 5 / 1800	1800	360
RPP 5 / 1895	1895	379
RPP 5 / 2000	2000	400
RPP 5 / 2250	2250	450
RPP 5 / 2525	2525	505

ORDERING EXAMPLE
订购示例

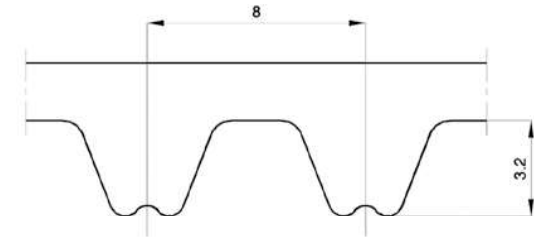
12 RPP 5 / 725 - NP

Belt Width / 同步带宽
RPP 5 Series / 系列
Pitch Length / 节距长度
Material: Neoprene
材料: 氯丁二烯橡胶

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带（氯丁二烯橡胶）

◆ RPP 8 Series / 系列
Material: Neoprene / 材料: 氯丁二烯橡胶



RPP 8		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
RPP 8 / 288	288	36
RPP 8 / 320	320	40
RPP 8 / 352	352	44
RPP 8 / 384	384	48
RPP 8 / 408	408	51
RPP 8 / 480	480	60
RPP 8 / 536	536	67
RPP 8 / 544	544	68
RPP 8 / 560	560	70
RPP 8 / 600	600	75
RPP 8 / 632	632	79
RPP 8 / 640	640	80
RPP 8 / 680	680	85
RPP 8 / 720	720	90
RPP 8 / 800	800	100
RPP 8 / 840	840	105
RPP 8 / 880	880	110
RPP 8 / 920	920	115
RPP 8 / 960	960	120
RPP 8 / 1040	1040	130
RPP 8 / 1080	1080	135
RPP 8 / 1120	1120	140
RPP 8 / 1200	1200	150
RPP 8 / 1224	1224	153
RPP 8 / 1280	1280	160
RPP 8 / 1352	1352	169
RPP 8 / 1440	1440	180
RPP 8 / 1464	1464	183
RPP 8 / 1600	1600	200
RPP 8 / 1760	1760	220
RPP 8 / 1800	1800	225
RPP 8 / 2000	2000	250

RPP 8		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
RPP 8 / 2200	2200	275
RPP 8 / 2400	2400	300
RPP 8 / 2600	2600	325
RPP 8 / 2800	2800	350
RPP 8 / 3048	3048	381
RPP 8 / 3280	3280	410
RPP 8 / 3600	3600	450
RPP 8 / 4400	4400	550

ORDERING EXAMPLE
订购示例

12 RPP 8 / 720 - NP

Belt Width / 同步带宽
RPP 8 Series / 系列
Pitch Length / 节距长度
Material: Neoprene
材料: 氯丁二烯橡胶

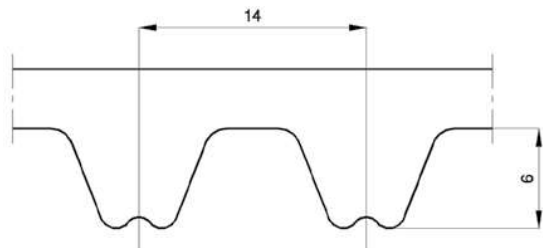
Power Transmission
动力传输

Power Transmission
动力传输

Rubber Timing Belt - NP Endless Timing Belt

无尽头型同步带（氯丁二烯橡胶）

◆ RPP 14 Series / 系列
Material: Neoprene / 材料: 氯丁二烯橡胶



RPP 14		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
RPP 14 / 966	966	69
RPP 14 / 1092	1092	78
RPP 14 / 1190	1190	85
RPP 14 / 1400	1400	100
RPP 14 / 1610	1610	115
RPP 14 / 1764	1764	126
RPP 14 / 1778	1778	127
RPP 14 / 1890	1890	135
RPP 14 / 2100	2100	150
RPP 14 / 2310	2310	165
RPP 14 / 2450	2450	175
RPP 14 / 2590	2590	185
RPP 14 / 2800	2800	200
RPP 14 / 3150	3150	225
RPP 14 / 3360	3360	240
RPP 14 / 3500	3500	250
RPP 14 / 3850	3850	275
RPP 14 / 4326	4326	309
RPP 14 / 4578	4578	327
RPP 14 / 4956	4956	354

ORDERING EXAMPLE
订购示例

12 RPP 14 / 966 - NP

Belt Width / 同步带宽
RPP 14 Series / 系列
Pitch Length / 节距长度
Material: Neoprene
材料: 氯丁二烯橡胶

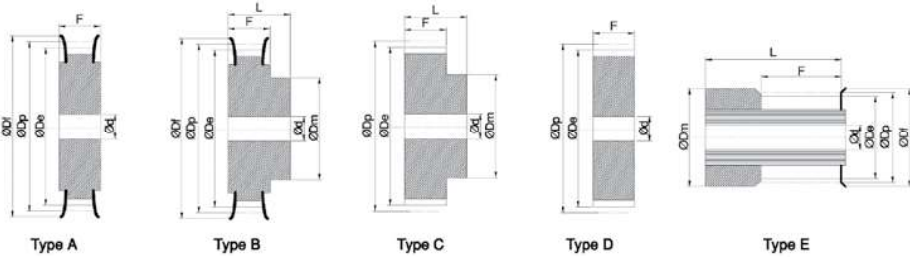
Power Transmission
动力传输

Power Transmission
动力传输

Timing Pulleys

同步带轮

◆ T 2.5 Series / 系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Type 类型	Teeth 齿数	Dp	De	Df	Dm	d	For Belt Width / 同步带宽度									
							4 mm		6 mm		8 mm		10 mm		12 mm	
							F	L	F	L	F	L	F	L		
E	12	9.55	9.03	12	12	-	7	14	9	16	11	18	13	20	15	22
E	14	11.14	10.62	15	14	-	7	14	9	16	11	18	13	20	15	22
E	15	11.94	11.42	15	15	-	7	14	9	16	11	18	13	20	15	22
E	16	12.73	12.21	16	16	-	7	14	9	16	11	18	13	20	15	22
A, B, C, D	18	14.32	13.80	17.5	10	-	8	14	10	16	12	18	14	20	16	22
A, B, C, D	19	15.12	14.60	17.5	10	-	8	14	10	16	12	18	14	20	16	22
A, B, C, D	20	15.92	15.40	19.5	11	-	8	14	10	16	12	18	14	20	16	22
A, B, C, D	22	17.51	16.99	23	11	-	8	14	10	16	12	18	14	20	16	22
A, B, C, D	23	18.30	17.78	23	11	-	8	14	10	16	12	18	14	20	16	22
A, B, C, D	24	19.10	18.58	23	12	3	8	14	10	16	12	18	14	20	16	22
A, B, C, D	25	19.89	19.37	23	13	3	8	14	10	16	12	18	14	20	16	22
A, B, C, D	26	20.69	20.17	25	14	4	8	14	10	16	12	18	14	20	16	22
A, B, C, D	28	22.28	21.76	25	14	4	8	14	10	16	12	18	14	20	16	22
A, B, C, D	30	23.87	23.35	28	16	4	8	14	10	16	12	18	14	20	16	22
A, B, C, D	32	25.47	24.95	32	16	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	34	27.06	26.54	32	16	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	35	27.85	27.33	32	16	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	36	28.65	28.13	36	20	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	38	30.24	29.72	36	20	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	40	31.83	31.31	38	22	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	42	33.42	32.90	38	22	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	44	35.02	34.50	42	24	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	45	35.81	35.29	42	24	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	48	38.20	37.68	42	26	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	50	39.79	39.27	44	26	6	8	14	10	16	12	18	14	20	16	22
A, B, C, D	60	47.75	47.23	51	34	8	8	14	10	16	12	18	14	20	16	22
A, B, C, D	65	51.73	51.21	57	34	8	8	14	10	16	12	18	14	20	16	22
A, B, C, D	70	55.71	55.19	63	35	8	8	14	10	16	12	18	14	20	16	22
A, B, C, D	72	57.30	56.78	63	35	8	8	14	10	16	12	18	14	20	16	22
A, B, C, D	90	71.62	71.10	79	40	8	8	14	10	16	12	18	14	20	16	22
A, B, C, D	100	79.58	79.06	87	50	8	8	14	10	16	12	18	14	20	16	22

◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例:

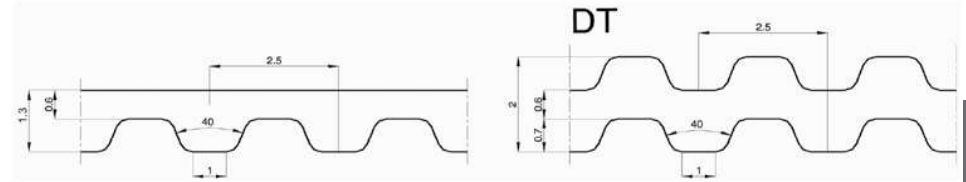
AL 10 T 2.5 / 30 - A
 AL - Aluminium / 铝
 ST - Steel / 钢
 Pulley Width / 带轮宽度: F
 T 2.5 Series / 系列
 No. of Teeth / 齿数
 Type / 类型: A, B, C, D, E

MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带 (聚胺脂)

◆ T 2.5 Series / 系列

Material: Polyurethane / 材料: 聚胺脂



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	4	6	8	10	12
Breaking Strength (N) 断裂强度	154	230	308	385	462
Max. Traction Load (N) 最大牵引负载	52	77	103	128	154

T 2.5		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
T2.5 / 120	120	48
T2.5 / 145	145	58
T2.5 / 160	160	64
T2.5 / 177.5	177.5	71
T2.5 / 180	180	72
T2.5 / 182.5	182.5	73
T2.5 / 200	200	80
T2.5 / 210	210	84
T2.5 / 230	230	92
T2.5 / 245	245	98
T2.5 / 265	265	106
T2.5 / 277.5	277.5	111
T2.5 / 285	285	114
T2.5 / 290	290	116
T2.5 / 305	305	122
T2.5 / 317.5	317.5	127
T2.5 / 330	330	132
T2.5 / 342.5	342.5	137
T2.5 / 380	380	152
T2.5 / 420	420	168
T2.5 / 480	480	192
T2.5 / 500	500	200
T2.5 / 540	540	216
T2.5 / 600	600	240
T2.5 / 620	620	248

T 2.5		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
T2.5 / 650	650	260
T2.5 / 680	680	272
T2.5 / 700	700	280
T2.5 / 780	780	312
T2.5 / 880	880	352
T2.5 / 915	915	366
T2.5 / 950	950	380
T2.5 / 1185	1185	474

DT 2.5 (Double-Sided 双面)		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
DT 2.5 / 457.5	457.5	183

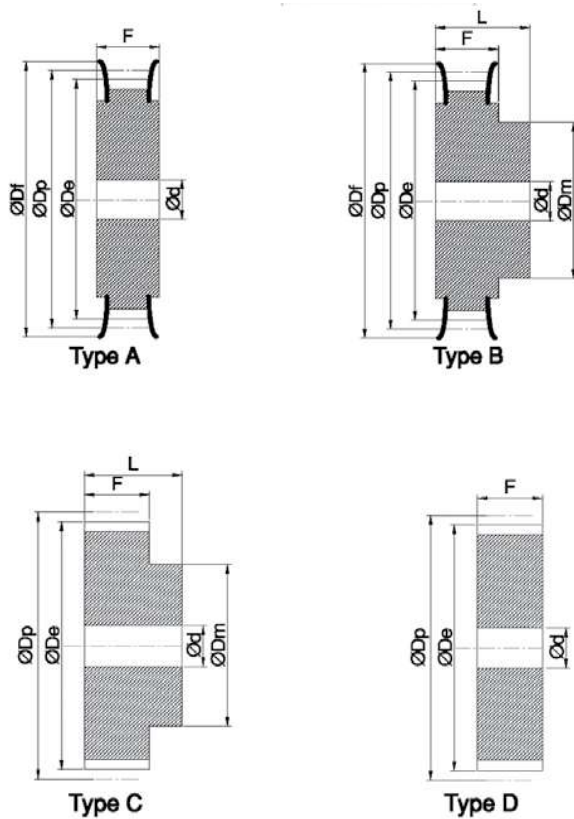
◆ Ordering Example 订购示例

12 T 2.5 / 230
 Belt Width 同步带宽度
 T 2.5 / DT 2.5 Series 系列
 Pitch Length 节距长度

Timing Pulleys

同步带轮

◆ T 5 Series / 系列



◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例: **ST** **15** **T 5** / **28** - **B**
 AL - Aluminium / 铝 ST - Steel / 钢 Type / 类型: A, B, C, D
 Pulley Width / 带轮宽度: F T 5 Series / 系列 No. of Teeth / 齿数

◆ T 5 Series / 系列

◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

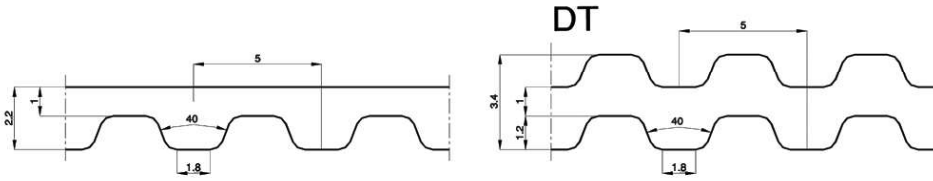
Type 类型	Teeth 齿数	D _p	D _e	D _r	D _m	d	For Belt Width / 同步带宽度									
							8 mm		10 mm		16 mm		20 mm		25 mm	
							F	L	F	L	F	L	F	L	F	L
A, B, C, D	10	15.92	15.09	19.5	11	4	13	19	15	21	21	27	25	31	30	36
A, B, C, D	11	17.51	16.68	23	11	4	13	19	15	21	21	27	25	31	30	36
A, B, C, D	12	19.10	18.27	23	11	4	13	19	15	21	21	27	25	31	30	36
A, B, C, D	13	20.69	19.86	25	11	4	13	19	15	21	21	27	25	31	30	36
A, B, C, D	14	22.28	21.45	25	14	5	13	19	15	21	21	27	25	31	30	36
A, B, C, D	15	23.87	23.04	28	16	6	13	19	15	21	21	27	25	31	30	36
A, B, C, D	16	25.47	24.64	32	18	6	13	19	15	21	21	27	25	31	30	36
A, B, C, D	18	28.65	27.82	32	20	6	13	19	15	21	21	27	25	31	30	36
A, B, C, D	19	30.24	29.41	36	22	6	13	19	15	21	21	27	25	31	30	36
A, B, C, D	20	31.83	31.00	36	23	6	13	19	15	21	21	27	25	31	30	36
A, B, C, D	22	35.02	34.19	38	24	6	13	19	15	21	21	27	25	31	30	36
A, B, C, D	24	38.20	37.37	42	26	6	13	19	15	21	21	27	25	31	30	36
A, B, C, D	25	39.79	38.96	44	26	6	13	19	15	21	21	27	25	31	30	36
A, B, C, D	26	41.38	40.55	44	26	6	13	19	15	21	21	27	25	31	30	36
A, B, C, D	27	42.97	42.14	48	30	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	28	44.56	43.73	48	32	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	30	47.75	46.92	51	34	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	32	50.93	50.10	54	38	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	36	57.30	56.47	63	38	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	38	60.48	59.65	66	38	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	40	63.66	62.83	66	40	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	42	66.85	66.02	71	40	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	44	70.03	69.20	75	45	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	45	71.62	70.79	79	45	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	48	76.40	75.57	83	50	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	50	79.58	78.75	87	50	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	60	95.50	94.67	103	65	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	64	101.86	101.03	111	70	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	72	114.59	113.76	123	80	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	80	127.33	126.50	135	90	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	90	143.24	142.41	153	100	8	13	19	15	21	21	27	25	31	30	36
A, B, C, D	100	159.16	158.33	168	110	8	13	19	15	21	21	27	25	31	30	36

MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带（聚胺脂）

◆ T 5 Series / 系列

Material: Polyurethane / 材料: 聚胺脂



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	6	8	10	12	16	20	25
Breaking Strength (N) 断裂强度	570	720	915	1,240	1,830	2,330	2,975
Max. Traction Load (N) 最大牵引负载	190	240	305	385	610	725	985

T 5		
Code 代码	Pitch Length 节距长度(mm)	Teeth 齿数
T5 / 120	120	24
T5 / 150	150	30
T5 / 165	165	33
T5 / 180	180	36
T5 / 185	185	37
T5 / 200	200	40
T5 / 210	210	42
T5 / 215	215	43
T5 / 220	220	44
T5 / 225	225	45
T5 / 245	245	49
T5 / 250	250	50
T5 / 255	255	51
T5 / 260	260	52
T5 / 270	270	54
T5 / 275	275	55
T5 / 280	280	56
T5 / 295	295	59
T5 / 300	300	60
T5 / 305	305	61
T5 / 330	330	66
T5 / 340	340	68

T 5		
Code 代码	Pitch Length 节距长度(mm)	Teeth 齿数
T5 / 350	350	70
T5 / 355	355	71
T5 / 365	365	73
T5 / 375	375	75
T5 / 390	390	78
T5 / 400	400	80
T5 / 410	410	82
T5 / 520	420	84
T5 / 425	425	85
T5 / 440	440	88
T5 / 445	445	89
T5 / 450	450	90
T5 / 455	455	91
T5 / 460	460	92
T5 / 475	475	95
T5 / 480	480	96
T5 / 500	500	100
T5 / 510	510	102
T5 / 515	515	103
T5 / 525	525	105
T5 / 545	545	109
T5 / 550	550	110

MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带（聚胺脂）

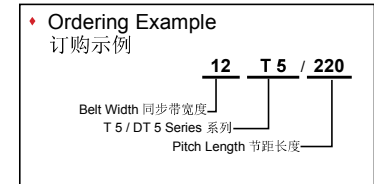
◆ T 5 Series / 系列

Material: Polyurethane / 材料: 聚胺脂

T 5		
Code 代码	Pitch Length 节距长度(mm)	Teeth 齿数
T5 / 560	560	112
T5 / 575	575	115
T5 / 590	590	118
T5 / 600	600	120
T5 / 610	610	122
T5 / 620	620	124
T5 / 630	630	126
T5 / 640	640	128
T5 / 650	650	130
T5 / 660	660	132
T5 / 675	675	135
T5 / 690	690	138
T5 / 700	700	140
T5 / 720	720	144
T5 / 725	725	145
T5 / 750	750	150
T5 / 765	765	153
T5 / 780	780	156
T5 / 800	800	160
T5 / 815	815	163
T5 / 830	830	166
T5 / 840	840	168
T5 / 850	850	170
T5 / 860	860	172
T5 / 885	885	177
T5 / 900	900	180
T5 / 920	920	184
T5 / 940	940	188
T5 / 990	990	198
T5 / 1075	1075	215
T5 / 1100	1100	220
T5 / 1160	1160	232
T5 / 1200	1200	240
T5 / 1215	1215	243
T5 / 1275	1275	255
T5 / 1280	1280	256
T5 / 1315	1315	263
T5 / 1355	1355	271
T5 / 1380	1380	276

T 5		
Code 代码	Pitch Length 节距长度(mm)	Teeth 齿数
T5 / 1440	1440	288
T5 / 1470	1470	294
T5 / 1500	1500	300
T5 / 1580	1580	316
T5 / 1955	1955	391

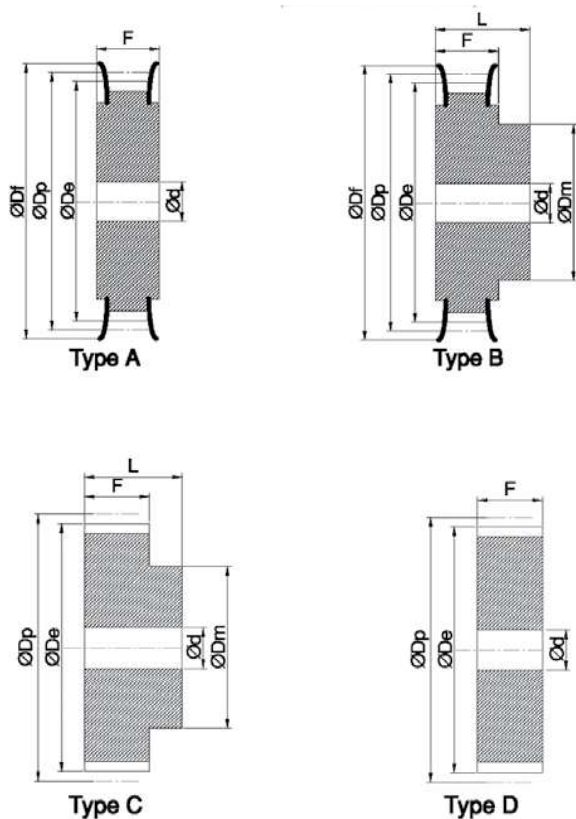
DT 5 (Double-Sided 双面)		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
410 DL	410	82
460 DL	460	92
515 DL	515	103
525 DL	525	105
550 DL	550	110
590 DL	590	118
620 DL	620	124
685 DL	685	137
700 DL	700	140
750 DL	750	150
815 DL	815	163
840 DL	840	168
860 DL	860	172
940 DL	940	188
1100 DL	1100	220



Timing Pulleys

同步带轮

◆ T 10 Series / 系列



◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例: **AL** **21** **T 10** / **28** - **C**
 AL - Aluminium / 铝 ST - Steel / 钢 Type / 类型: A, B, C, D
 Pulley Width / 带轮宽度: F T 10 Series / 系列 No. of Teeth / 齿数

◆ T 10 Series / 系列

◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

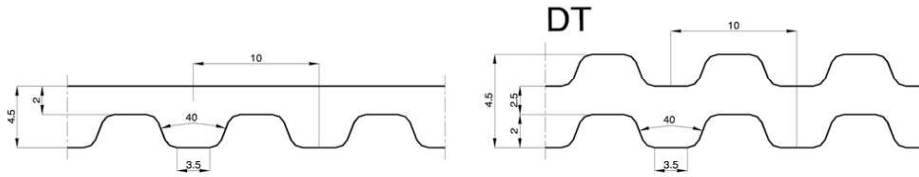
Type 类型	Teeth 齿数	D _p	D _e	D _f	D _m	For Belt Width / 同步带宽度											
						16 mm			25 mm			32 mm			50 mm		
						d	F	L	d	F	L	d	F	L	d	F	L
A, B, C, D	10	31.83	29.98	38	20	8	21	31	8	30	40	8	37	47	8	56	66
A, B, C, D	11	35.02	33.17	42	25	8	21	31	8	30	40	8	37	47	8	56	66
A, B, C, D	12	38.20	36.35	42	28	8	21	31	8	30	40	8	37	47	8	56	66
A, B, C, D	13	41.38	39.50	42	30	8	21	31	8	30	40	8	37	47	8	56	66
A, B, C, D	14	44.56	42.71	48	32	8	21	31	8	30	40	8	37	47	8	56	66
A, B, C, D	15	47.75	45.90	51	32	8	21	31	8	30	40	8	37	47	8	56	66
A, B, C, D	16	50.93	49.08	54	35	8	21	31	8	30	40	8	37	47	8	56	66
A, B, C, D	18	57.30	55.45	60	40	8	21	31	8	30	40	8	37	47	8	56	66
A, B, C, D	19	60.48	58.63	66	44	8	21	31	8	30	40	10	37	47	10	56	66
A, B, C, D	20	63.66	61.81	66	46	8	21	31	8	30	40	10	37	47	10	56	66
A, B, C, D	22	70.03	68.18	75	52	8	21	31	8	30	40	10	37	47	10	56	66
A, B, C, D	24	76.40	74.55	83	58	8	21	31	8	30	40	10	37	47	10	56	66
A, B, C, D	25	79.58	77.73	83	60	8	21	31	8	30	40	10	37	47	10	56	66
A, B, C, D	26	82.76	80.91	87	60	8	21	31	8	30	40	12	37	47	12	56	66
A, B, C, D	27	85.95	84.10	91	60	8	21	31	8	30	40	12	37	47	12	56	66
A, B, C, D	28	89.13	87.28	93	60	8	21	31	8	30	40	12	37	47	12	56	66
A, B, C, D	30	95.50	93.65	97	60	8	21	31	8	30	40	12	37	47	12	56	66
A, B, C, D	32	101.86	100.01	106	65	10	21	31	10	30	40	12	37	47	12	56	66
A, B, C, D	36	114.59	112.74	119	70	10	21	31	10	30	40	12	37	47	12	56	66
A, B, C, D	38	120.96	119.11	127	80	10	21	31	10	30	40	12	37	47	12	56	66
A, B, C, D	40	127.33	125.48	131	80	10	21	31	10	30	40	12	37	47	12	56	66
A, B, C, D	44	140.06	138.21	142	88	10	21	31	10	30	40	12	37	47	12	56	66
A, B, C, D	48	152.79	150.94	158	95	16	21	31	16	30	40	16	37	47	16	56	66
A, B, C, D	60	190.99	189.14	200	110	16	21	31	16	30	40	16	37	47	16	56	66
A, B, C, D	72	229.19	227.34	240	120	16	21	31	16	30	40	16	37	47	16	56	66

MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带（聚胺脂）

◆ T 10 Series / 系列

Material: Polyurethane / 材料: 聚胺脂



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	10	12	16	20	25	32	50	75
Breaking Strength (N) 断裂强度	3,290	4,020	5,110	6,580	8,040	10,600	16,450	25,960
Max. Traction Load (N) 最大牵引负载	1,040	1,280	1,630	2,090	2,560	3,370	5,230	10,470

T 10		
Code 代码	Pitch Length 节距长度(mm)	Teeth 齿数
T10 / 260	260	26
T10 / 320	320	32
T10 / 340	340	34
T10 / 370	370	37
T10 / 390	390	39
T10 / 400	400	40
T10 / 410	410	41
T10 / 440	440	44
T10 / 450	450	45
T10 / 480	480	48
T10 / 500	500	50
T10 / 530	530	53
T10 / 550	550	55
T10 / 560	560	56
T10 / 600	600	60
T10 / 610	610	61
T10 / 630	630	63
T10 / 650	650	65
T10 / 660	660	66
T10 / 680	680	68
T10 / 690	690	69
T10 / 700	700	70

T 10		
Code 代码	Pitch Length 节距长度(mm)	Teeth 齿数
T10 / 720	720	72
T10 / 730	730	73
T10 / 750	750	75
T10 / 780	780	78
T10 / 800*	800*	80
T10 / 810	810	81
T10 / 840	840	84
T10 / 850	850	85
T10 / 880	880	88
T10 / 890	890	89
T10 / 900	900	90
T10 / 910	910	91
T10 / 920	920	92
T10 / 950	950	95
T10 / 960	960	96
T10 / 970	970	97
T10 / 980	980	98
T10 / 1000	1000	100
T10 / 1010	1010	101
T10 / 1050	1050	105
T10 / 1080	1080	108
T10 / 1100	1100	110

MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带（聚胺脂）

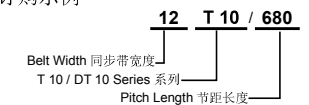
◆ T 10 Series / 系列

Material: Polyurethane / 材料: 聚胺脂

T 10		
Code 代码	Pitch Length 节距长度(mm)	Teeth 齿数
T10 / 1110	1110	111
T10 / 1140	1140	114
T10 / 1150	1150	115
T10 / 1200	1200	120
T10 / 1210	1210	121
T10 / 1240	1240	124
T10 / 1250	1250	125
T10 / 1300	1300	130
T10 / 1320	1320	132
T10 / 1350	1350	135
T10 / 1390	1390	139
T10 / 1400	1400	140
T10 / 1420	1420	142
T10 / 1440	1440	144
T10 / 1450	1450	145
T10 / 1460	1460	146
T10 / 1500	1500	150
T10 / 1560	1560	156
T10 / 1600	1600	160
T10 / 1610	1610	161
T10 / 1700	1700	170
T10 / 1750	1750	175
T10 / 1780	1780	178
T10 / 1880	1880	188
T10 / 1960	1960	196
T10 / 2250	2250	225

DT 10 (Double-Sided 双面)		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
260 DL	260	26
530 DL	530	53
630 DL	630	63
660 DL	660	66
700 DL	700	70
720 DL	720	72
800 DL	800	80
840 DL	840	84
900 DL	900	90
920 DL	920	92
980 DL	980	98
1010 DL	1010	101
1100 DL	1100	110
1150 DL	1150	115
1210 DL	1210	121
1240 DL	1240	124
1250 DL	1250	125
1320 DL	1320	132
1350 DL	1350	135
1420 DL	1420	142
1610 DL	1610	161
1880 DL	1880	188

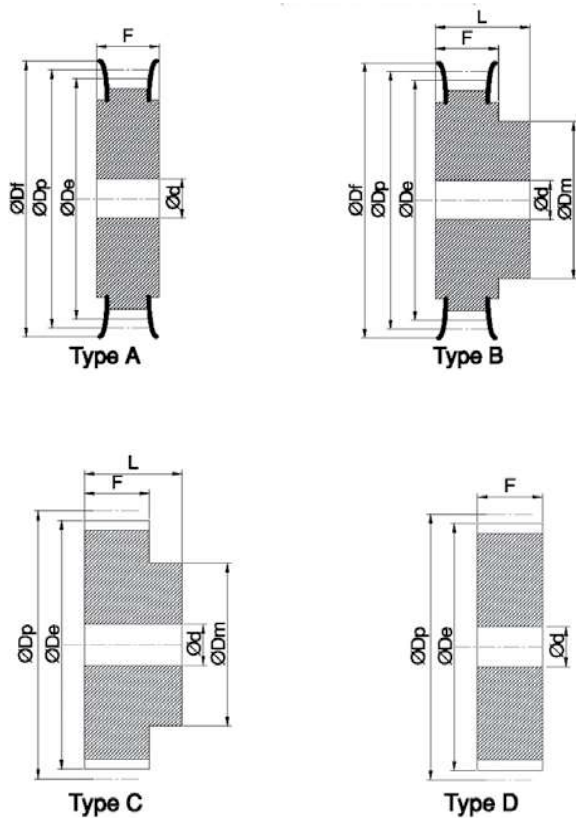
◆ Ordering Example 订购示例



Timing Pulleys

同步带轮

◆ T 20 Series / 系列



◆ T 20 Series / 系列

◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Type 类型	Teeth 齿数	Dp	De	Df	Dm	For Belt Width / 同步带宽度											
						32 mm			50 mm			75 mm			100 mm		
						d	F	L	d	F	L	d	F	L	d	F	L
A, B, C, D	18	114.59	111.73	119	80	15	42	53	15	60	71	20	85	106	24	110	123
A, B, C, D	20	127.33	124.47	138	90	15	42	53	15	60	71	20	85	106	24	110	123
A, B, C, D	22	140.06	137.20	145	90	15	42	53	15	60	71	20	85	106	24	110	123
A, B, C, D	24	152.79	149.93	160	95	15	42	53	15	60	71	20	85	106	24	110	123
A, B, C, D	25	159.16	156.30	168	95	15	42	53	15	60	71	20	85	106	24	110	123
A, B, C, D	30	190.99	188.13	200	110	15	42	53	15	60	71	20	85	106	24	110	123
A, B, C, D	32	203.72	200.86	216	110	18	42	53	20	60	71	20	85	106	32	110	123
A, B, C, D	36	229.19	226.33	240	110	18	42	53	20	60	71	20	85	106	32	110	123
A, B, C, D	40	254.66	251.80	-	110	20	42	53	20	60	71	20	85	106	32	110	123
A, B, C, D	48	305.59	302.73	-	130	20	42	53	20	60	71	20	85	106	32	110	123
A, B, C, D	60	381.98	379.12	-	130	20	42	53	20	60	71	20	85	106	32	110	123

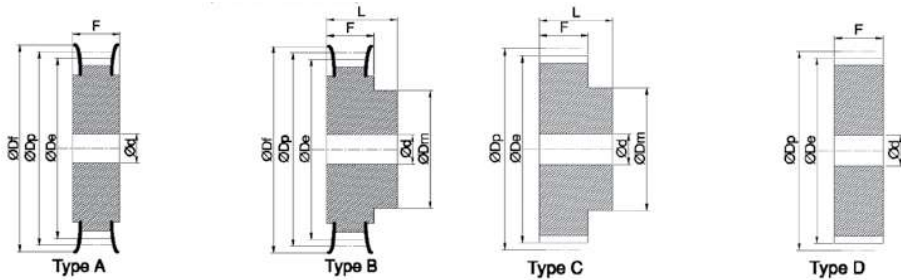
◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例: **AL 42 T 20 / 18 - D**
 AL - Aluminium / 铝
 ST - Steel / 钢
 Pulley Width / 带轮宽度: F
 T 20 Series / 系列
 No. of Teeth / 齿数
 Type / 类型: A, B, C, D

Timing Pulleys

同步带轮

◆ AT 5 Series / 系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Type 类型	Teeth 齿数	Dp	De	Df	Dm	d	For Belt Width / 同步带宽度									
							10 mm		16 mm		20 mm		25 mm		32 mm	
							F	L	F	L	F	L	F	L	F	L
A, B, C, D	12	19.10	17.87	23	11	4	15	21	21	27	25	31	30	36	37	45
A, B, C, D	13	20.69	19.46	25	11	4	15	21	21	27	25	31	30	36	37	45
A, B, C, D	14	22.28	21.05	25	14	5	15	21	21	27	25	31	30	36	37	45
A, B, C, D	15	23.87	22.64	28	16	6	15	21	21	27	25	31	30	36	37	45
A, B, C, D	16	25.47	24.24	32	18	6	15	21	21	27	25	31	30	36	37	45
A, B, C, D	18	28.65	27.42	32	20	6	15	21	21	27	25	31	30	36	37	45
A, B, C, D	19	30.24	29.01	36	22	6	15	21	21	27	25	31	30	36	37	45
A, B, C, D	20	31.83	30.60	36	23	6	15	21	21	27	25	31	30	36	37	45
A, B, C, D	22	35.02	33.79	38	24	6	15	21	21	27	25	31	30	36	37	45
A, B, C, D	24	38.20	36.97	42	26	6	15	21	21	27	25	31	30	36	37	45
A, B, C, D	25	39.79	38.56	44	26	6	15	21	21	27	25	31	30	36	37	45
A, B, C, D	26	41.38	40.15	44	26	6	15	21	21	27	25	31	30	36	37	45
A, B, C, D	27	42.97	41.74	48	30	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	28	44.56	43.33	48	32	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	30	47.75	46.52	51	34	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	32	50.93	49.70	54	38	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	36	57.30	56.07	63	38	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	38	60.48	59.25	66	38	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	40	63.66	62.43	66	40	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	42	66.85	65.62	71	40	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	44	70.03	68.80	75	45	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	48	76.40	75.17	83	50	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	50	79.58	78.35	87	50	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	60	95.50	94.27	103	65	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	64	101.86	100.63	111	70	8	15	21	21	27	25	31	30	36	37	45
A, B, C, D	72	114.59	113.36	123	80	8	15	21	21	27	25	31	30	36	37	45

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可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例:

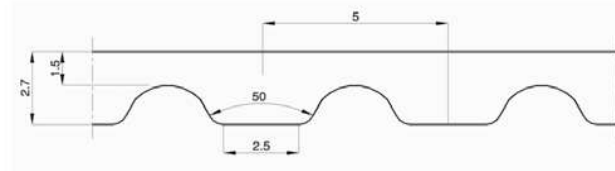


MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带 (聚胺脂)

◆ AT 5 Series / 系列

Material: Polyurethane / 材料: 聚胺脂



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	6	8	10	12	16	20	25
Breaking Strength (N) 断裂强度	1,225	1,630	1,960	2,450	3,920	5,390	6,370
Max. Traction Load (N) 最大牵引负载	395	520	630	790	1,260	1,730	2,050

AT 5		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
AT 5 / 225	225	45
AT 5 / 255	255	51
AT 5 / 280	280	56
AT 5 / 300	300	60
AT 5 / 330	330	66
AT 5 / 340	340	68
AT 5 / 375	375	75
AT 5 / 390	390	78
AT 5 / 420	420	84
AT 5 / 450	450	90
AT 5 / 455	455	91
AT 5 / 500	500	100
AT 5 / 525	525	105
AT 5 / 545	545	109
AT 5 / 600	600	120
AT 5 / 610	610	122
AT 5 / 660	660	132
AT 5 / 710	710	142
AT 5 / 720	720	144
AT 5 / 750	750	150
AT 5 / 780	780	156
AT 5 / 825	825	165
AT 5 / 860	860	172
AT 5 / 975	975	195
AT 5 / 1050	1050	210
AT 5 / 1125	1125	225
AT 5 / 1500	1500	300
AT 5 / 2000	2000	400

ORDERING EXAMPLE

订购示例

12 AT 5 / 280

Belt Width / 同步带宽

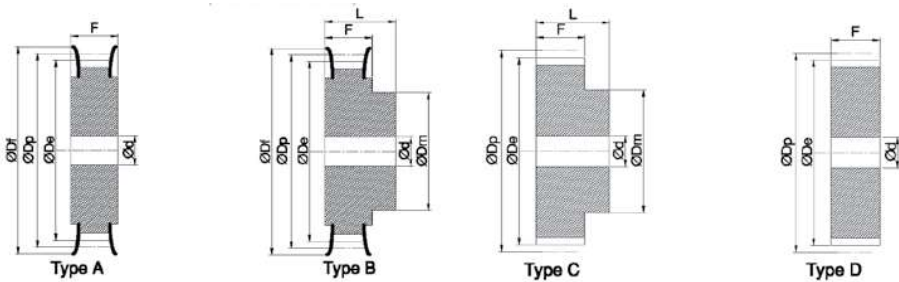
AT 5 Series / 系列

Pitch Length / 节距长度

Timing Pulleys

同步带轮

◆ AT 10 Series / 系列



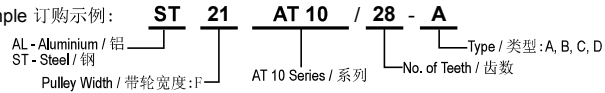
◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Type 类型	Teeth 齿数	Dp	De	Df	Dm	For Belt Width / 同步带宽度														
						16 mm			25 mm			32 mm			50 mm			75 mm		
						d	F	L	d	F	L	d	F	L	d	F	L	d	F	L
A, B, C, D	15	47.75	45.90	51	32	8	21	31	8	30	40	10	37	47	10	56	66	12	81	91
A, B, C, D	16	50.93	49.08	54	35	8	21	31	8	30	40	10	37	47	10	56	66	12	81	91
A, B, C, D	18	57.30	55.45	60	40	8	21	31	8	30	40	10	37	47	10	56	66	12	81	91
A, B, C, D	19	60.48	58.63	66	44	8	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	20	63.66	61.81	66	46	8	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	22	70.03	68.18	75	52	8	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	24	76.40	74.55	83	58	8	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	25	79.58	77.73	83	60	8	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	26	82.76	80.91	87	60	8	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	27	85.95	84.10	91	60	8	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	28	89.13	87.28	93	60	8	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	30	95.50	93.65	97	60	8	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	32	101.86	100.01	106	65	10	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	36	114.59	112.74	119	70	10	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	38	120.96	119.11	127	75	10	21	31	8	30	40	12	37	47	12	56	66	12	81	91
A, B, C, D	40	127.33	125.48	131	80	10	21	31	8	30	40	12	37	47	12	56	66	16	81	91
A, B, C, D	44	140.06	138.21	142	88	10	21	31	8	30	40	12	37	47	12	56	66	16	81	91
A, B, C, D	48	152.79	150.94	158	95	16	21	31	8	30	40	12	37	47	12	56	66	16	81	91
A, B, C, D	60	190.99	189.14	200	110	16	21	31	16	30	40	16	37	47	16	56	66	16	81	91

◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例:

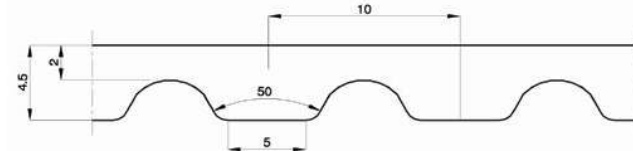


MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带 (聚胺脂)

◆ AT 10 Series / 系列

Material: Polyurethane / 材料: 聚胺脂



◆ Specifications 规格

Unit 单位: mm 毫米

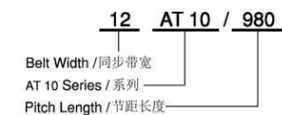
Standard Belt Width (mm) 标准带宽	10	12	16	20	25	32	50	75
Breaking Strength (N) 断裂强度	4,670	5,610	7,480	9,350	12,450	16,600	27,400	41,500
Max. Traction Load (N) 最大牵引负载	1,360	1,640	2,190	2,720	3,660	4,880	8,050	12,200

AT 10		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
AT 10 / 370	370	37
AT 10 / 500	500	50
AT 10 / 560	560	56
AT 10 / 600	600	60
AT 10 / 610	610	61
AT 10 / 660	660	66
AT 10 / 700	700	70
AT 10 / 730	730	73
AT 10 / 780	780	78
AT 10 / 800	800	80
AT 10 / 840	840	84
AT 10 / 880	880	88
AT 10 / 890	890	89
AT 10 / 920	920	92
AT 10 / 960	960	96
AT 10 / 980	980	98
AT 10 / 1000	1000	100
AT 10 / 1010	1010	101
AT 10 / 1050	1050	105
AT 10 / 1080	1080	108
AT 10 / 1100	1100	110
AT 10 / 1150	1150	115
AT 10 / 1200	1200	120
AT 10 / 1210	1210	121
AT 10 / 1220	1220	122
AT 10 / 1230	1230	123
AT 10 / 1240	1240	124
AT 10 / 1250	1250	125

AT 10		
Code 代码	Pitch Length 节距长度 (mm)	Teeth 齿数
AT 10 / 1280	1,280	128
AT 10 / 1300	1,300	130
AT 10 / 1320	1,320	132
AT 10 / 1350	1,350	135
AT 10 / 1360	1,360	136
AT 10 / 1400	1,400	140
AT 10 / 1420	1,420	142
AT 10 / 1480	1,480	148
AT 10 / 1500	1,500	150
AT 10 / 1600	1,600	160
AT 10 / 1700	1,700	170
AT 10 / 1720	1,720	172
AT 10 / 1800	1,800	180
AT 10 / 1860	1,860	186
AT 10 / 1940	1,940	194

ORDERING EXAMPLE

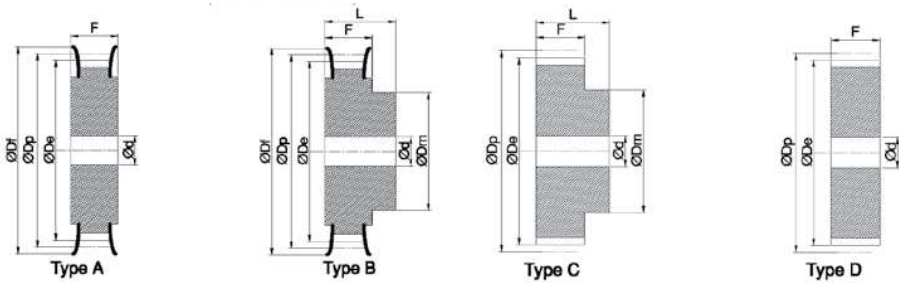
订购示例



Timing Pulleys

同步带轮

◆ AT 20 Series / 系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Type 类型	Teeth 齿数	Dp	De	Df	Dm	For Belt Width / 同步带宽度											
						32 mm			50 mm			75 mm			100 mm		
						d	F	L	d	F	L	d	F	L	d	F	L
A, B, C, D	18	114.59	111.73	119	80	15	42	53	15	60	71	15	85	106	24	110	123
A, B, C, D	20	127.33	124.47	138	90	15	42	53	15	60	71	15	85	106	24	110	123
A, B, C, D	22	140.06	137.20	145	90	15	42	53	15	60	71	15	85	106	24	110	123
A, B, C, D	24	152.79	149.93	160	95	15	42	53	15	60	71	15	85	106	24	110	123
A, B, C, D	25	159.16	156.30	168	95	15	42	53	15	60	71	15	85	106	24	110	123
A, B, C, D	30	190.99	188.13	200	110	15	42	53	15	60	71	15	85	106	24	110	123
A, B, C, D	32	203.72	200.86	211	110	18	42	53	20	60	71	20	85	106	32	110	123
A, B, C, D	36	229.19	226.33	-	110	18	42	53	20	60	71	20	85	106	32	110	123
A, B, C, D	40	254.66	251.80	-	110	20	42	53	20	60	71	20	85	106	32	110	123
A, B, C, D	48	305.59	302.73	-	130	20	42	53	20	60	71	20	85	106	32	110	123
A, B, C, D	60	381.98	379.12	-	130	20	42	53	20	60	71	20	85	106	32	110	123

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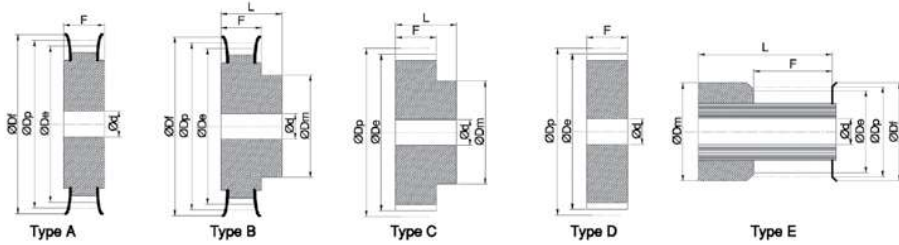
◆ Ordering Example 订购示例: **AL 42 AT 20 / 36 - A**

AL - Aluminium / 铝 ST - Steel / 钢 Type / 类型: A, B, C, D
Pulley Width / 带轮宽度: F AT 20 Series / 系列 No. of Teeth / 齿数

Timing Pulleys

同步带轮

◆ MXL Series / 系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Type 类型	Teeth 齿数	Dp	De	Df	Dm	d	For Belt Width / 同步带宽度											
							025		037		050							
							6.35 mm		9.53 mm		12.7 mm							
F	L	F	L	F	L													
E	12	7.76	7.25	12	12	-	9	16	12	19	15.2	22.2						
E	13	8.41	7.90	12	12	-	9	16	12	19	15.2	22.2						
E	14	9.06	8.55	12	13	-	9	16	12	19	15.2	22.2						
E	15	9.70	9.19	12	14	-	9	16	12	19	15.2	22.2						
E	16	10.35	9.84	15	14	-	9	16	12	19	15.2	22.2						
E	17	11.00	10.49	15	15	-	9	16	12	19	15.2	22.2						
E	18	11.64	11.13	15	15	-	9	16	12	19	15.2	22.2						
E	19	12.29	11.78	16	16	-	9	16	12	19	15.2	22.2						
E	20	12.94	12.43	16	16	-	9	16	12	19	15.2	22.2						
A, B, C, D	21	13.58	13.07	17.5	10	3	11	16	14	19	17.2	22.2						
A, B, C, D	22	14.23	13.72	17.5	10	3	11	16	14	19	17.2	22.2						
A, B, C, D	24	15.52	15.01	19.5	11	3	11	16	14	19	17.2	22.2						
A, B, C, D	25	16.17	15.66	19.5	11	3	11	16	14	19	17.2	22.2						
A, B, C, D	26	16.82	16.31	23	11	3	11	16	14	19	17.2	22.2						
A, B, C, D	27	17.46	16.95	23	11	3	11	16	14	19	17.2	22.2						
A, B, C, D	28	18.11	17.60	23	11	3	11	16	14	19	17.2	22.2						
A, B, C, D	30	19.40	18.89	25	14	4	11	16	14	19	17.2	22.2						
A, B, C, D	32	20.70	20.19	25	14	4	11	16	14	19	17.2	22.2						
A, B, C, D	36	23.29	22.78	28	16	4	11	16	14	19	17.2	22.2						
A, B, C, D	40	25.87	25.36	32	18	4	11	16	14	19	17.2	22.2						
A, B, C, D	42	27.17	26.66	32	18	5	11	16	14	19	17.2	22.2						
A, B, C, D	44	28.46	27.95	32	18	5	11	16	14	19	17.2	22.2						
A, B, C, D	45	29.11	28.60	36	18	5	11	16	14	19	17.2	22.2						
A, B, C, D	48	31.05	30.54	36	20	5	11	16	14	19	17.2	22.2						
A, B, C, D	50	32.34	31.83	38	20	5	11	16	14	19	17.2	22.2						
A, B, C, D	60	38.81	38.30	44	24	5	11	16	14	19	17.2	22.2						
A, B, C, D	64	41.40	40.89	48	25	6	11	16	14	19	17.2	22.2						
A, B, C, D	65	42.04	41.53	48	25	6	11	16	14	19	17.2	22.2						
A, B, C, D	70	45.28	44.77	51	25	6	11	16	14	19	17.2	22.2						
A, B, C, D	72	46.57	46.06	51	25	6	11	16	14	19	17.2	22.2						
A, B, C, D	75	48.51	48.00	54	26	6	11	16	14	19	17.2	22.2						
A, B, C, D	90	58.21	57.70	66	28	6	11	16	14	19	17.2	22.2						
A, B, C, D	110	71.15	70.64	79	30	6	11	16	14	19	17.2	22.2						

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◆ Ordering Example 订购示例:

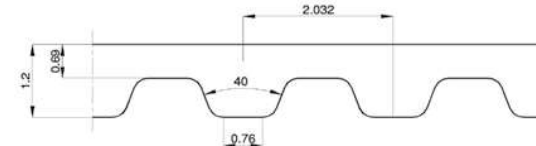
AL 28 MXL / 025 - A
 AL - Aluminium / 铝
 ST - Steel / 钢
 No. of Teeth / 齿数
 MXL Series / 系列
 Belt Width / 同步带宽度: 025 = 6.35 mm
 Type / 类型: A, B, C, D, E

MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带 (聚胺脂)

◆ MXL Series / 系列

Material: Polyurethane / 材料: 聚胺脂



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	013 (3.2mm)	018 (4.8mm)	025 (6.35mm)
Breaking Strength (N) 断裂强度	532	800	1060
Max. Traction Load (N) 最大牵引负载	160	242	320

Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英寸	mm 公尺	
	440 MXL	4.4	
456 MXL	4.6	115.82	57
480 MXL	4.8	121.92	60
560 MXL	5.6	142.24	70
576 MXL	5.8	146.30	72
600 MXL	6.0	152.40	75
608 MXL	6.1	154.43	76
632 MXL	6.3	160.53	79
640 MXL	6.4	162.56	80
656 MXL	6.6	166.62	82
704 MXL	7.0	178.82	88
728 MXL	7.3	184.91	91
736 MXL	7.4	186.94	92
768 MXL	7.7	195.07	96
808 MXL	8.1	205.23	101
816 MXL	8.2	207.26	102
824 MXL	8.2	209.30	103
840 MXL	8.4	213.36	105
880 MXL	8.8	223.52	110
912 MXL	9.1	231.65	114
944 MXL	9.4	239.78	118
960 MXL	9.6	243.84	120
1040 MXL	10.4	264.16	130
1056 MXL	10.6	268.22	132

Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英寸	mm 公尺	
	1080 MXL	10.8	
1120 MXL	11.2	284.48	140
1160 MXL	11.6	294.64	145
1200 MXL	12.0	304.80	150
1240 MXL	12.4	314.96	155
1400 MXL	14.0	355.60	175
1520 MXL	15.2	386.08	190
1600 MXL	16.0	406.40	200
1760 MXL	17.6	447.04	220
1770 MXL	17.7	449.58	221
2048 MXL	20.5	520.19	256
2240 MXL	22.4	568.96	280
2280 MXL	22.8	579.12	285
2464 MXL	24.6	625.86	308
2656 MXL	26.6	674.62	332
2816 MXL	28.2	715.26	352
2880 MXL	28.8	731.52	360
3160 MXL	31.6	802.64	395
3240 MXL	32.4	822.96	405
3296 MXL	33.0	837.18	412
3456 MXL	34.6	877.82	432
3632 MXL	36.3	922.53	454
3880 MXL	38.8	985.52	485

ORDERING EXAMPLE

订购示例

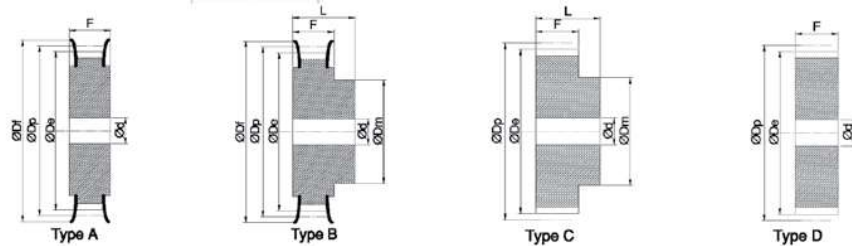
480 MXL / 025 - PU

Pitch Length / 节距长度
 MXL Series / 系列
 Belt Width / 同步带宽
 Material: Polyurethane
 材料: 聚胺脂

Timing Pulleys

同步带轮

◆ XL Series / 系列



Dimensions 测量尺寸

Unit unit: mm

Type 类型	Teeth 齿数	Dp	De	Df	Dm	d	For Belt Width / 同步带宽度									
							025		037		050		075		100	
							F	L	F	L	F	L	F	L	F	L
A, B, C, D	10	16.17	15.66	19.5	11	4	11.1	17	14.3	20	17.5	23	23.8	30	30.2	38
A, B, C, D	11	17.79	17.28	23	11	4	11.1	17	14.3	20	17.5	23	23.8	30	30.2	38
A, B, C, D	12	19.40	18.89	25	13	4	11.1	17	14.3	20	17.5	23	23.8	30	30.2	38
A, B, C, D	13	21.02	20.51	25	13	5	11.1	17	14.3	20	17.5	23	23.8	30	30.2	38
A, B, C, D	14	22.64	22.13	28	16	5	11.1	17	14.3	20	17.5	23	23.8	30	30.2	38
A, B, C, D	15	24.26	23.75	28	16	5	11.1	17	14.3	20	17.5	23	23.8	30	30.2	38
A, B, C, D	16	25.87	25.36	32	20	5	11.1	17	14.3	20	17.5	23	23.8	30	30.2	38
A, B, C, D	17	27.49	26.98	32	20	5	11.1	17	14.3	20	17.5	23	23.8	30	30.2	38
A, B, C, D	18	29.11	28.60	36	22	5	11.1	17	14.3	20	17.5	23	23.8	30	30.2	38
A, B, C, D	19	30.72	30.21	36	22	5	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	20	32.34	31.83	38	25	5	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	21	33.96	33.45	38	25	5	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	22	35.58	35.07	42	25	6	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	24	38.81	38.30	44	30	6	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	25	40.43	39.92	48	30	6	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	26	42.04	41.53	48	30	8	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	27	43.66	43.15	48	34	8	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	28	45.28	44.77	51	34	8	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	29	46.89	46.38	51	34	8	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	30	48.51	48.00	54	38	8	11.1	19	14.3	22	17.5	25	23.8	32	30.2	40
A, B, C, D	32	51.75	51.24	57	38	8	11.1	22	14.3	25	17.5	25	23.8	32	30.2	40
A, B, C, D	34	54.98	54.47	60	45	8	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	35	56.60	56.09	63	45	8	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	36	58.21	57.70	66	45	8	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	38	61.45	60.94	71	45	8	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	40	64.68	64.17	71	45	8	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	42	67.92	67.41	75	45	8	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	44	71.15	70.64	79	45	8	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	45	72.77	72.26	79	45	8	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	46	74.38	73.87	83	45	8	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	48	77.62	77.11	83	45	10	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	50	80.85	80.34	87	45	10	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	52	84.09	83.58	91	45	10	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	56	90.56	90.05	97	45	10	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	60	97.02	96.51	103	45	10	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	64	103.49	102.98	111	45	10	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42
A, B, C, D	72	116.43	115.92	123	45	10	11.1	22	14.3	25	17.5	28	23.8	35	30.2	42

◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例:



No. of Teeth / 齿数

XL Series / 系列

Type / 类型: A, B, C, D

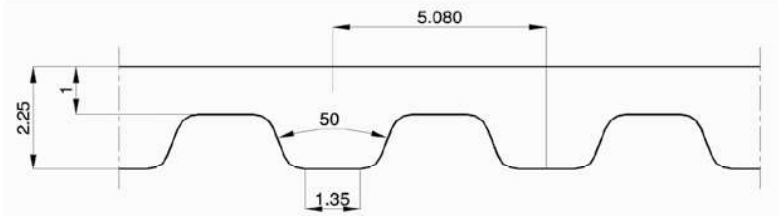
Belt Width / 同步带宽度: 025 = 6.35 mm

MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带 (聚胺脂)

◆ XL Series / 系列

Material: Polyurethane / 材料: 聚胺脂

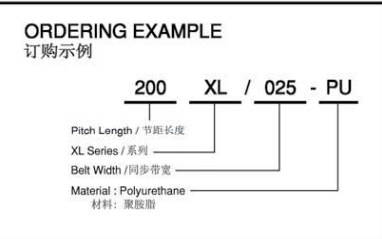


◆ Specifications 规格

Unit unit: mm 毫米

Standard Belt Width (mm) 标准带宽	025 (6.4 mm)	031 (7.9 mm)	037 (9.5 mm)
Breaking Strength (N) 断裂强度	680	850	1020
Max. Traction Load (N) 最大牵引负载	227	283	340

Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
	60 XL	6.0	
70 XL	7.0	177.8	35
76 XL	7.6	193.0	38
80 XL	8.0	203.2	40
90 XL	9.0	228.6	45
100 XL	10.0	254.0	50
110 XL	11.0	269.4	55
120 XL	12.0	304.8	60
130 XL	13.0	330.2	65
134 XL	13.4	340.3	67
140 XL	14.0	355.6	70
150 XL	15.0	381.0	75
160 XL	16.0	406.4	80
170 XL	17.0	431.8	85
180 XL	18.0	457.2	90
190 XL	19.0	482.6	95
194 XL	19.4	492.7	97
200 XL	20.0	508.0	100
210 XL	21.0	533.4	105
220 XL	22.0	558.8	110
230 XL	23.0	584.2	115
240 XL	24.0	609.6	120
250 XL	25.0	635.0	125
260 XL	26.0	660.4	130
270 XL	27.0	685.8	135
288 XL	28.8	731.5	144
290 XL	29.0	736.6	145
300 XL	30.0	762.0	150
356 XL	35.6	904.2	178
414 XL	41.4	1,051.5	207
450 XL	45.0	1,143.0	225
566 XL	56.6	1,437.6	283



Pitch Length / 节距长度

XL Series / 系列

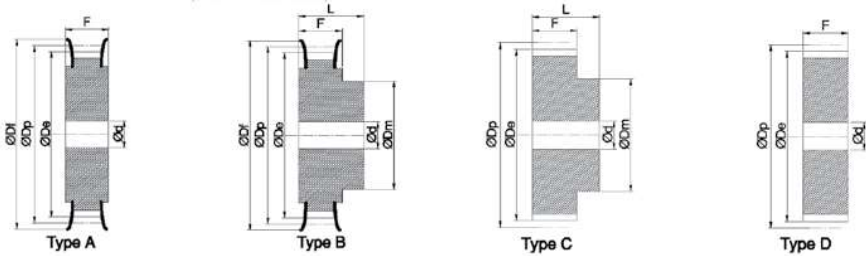
Belt Width / 同步带宽

Material: Polyurethane
材料: 聚胺脂

Timing Pulleys

同步带轮

◆ L Series / 系列



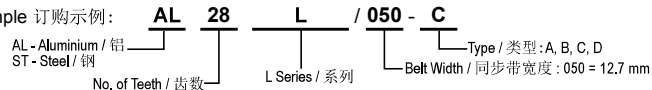
◆ Dimensions 测量尺寸

Unit 单位: mm

Type 类型	Teeth 齿数	Dp	De	Df	Dm	d	For Belt Width / 同步带宽度							
							050		075		100		150	
							F	L	F	L	F	L	F	L
A, B, C, D	10	30.32	29.55	36	20	8	19	28	25.4	38	31.8	45	44.5	58
A, B, C, D	11	33.35	32.58	38	24	8	19	30	25.4	38	31.8	45	44.5	58
A, B, C, D	12	36.38	35.61	42	26	8	19	30	25.4	38	31.8	45	44.5	58
A, B, C, D	13	39.42	38.65	44	28	8	19	30	25.4	38	31.8	45	44.5	58
A, B, C, D	14	42.45	41.68	48	28	8	19	30	25.4	38	31.8	45	44.5	58
A, B, C, D	15	45.48	44.71	51	34	8	19	30	25.4	38	31.8	45	44.5	58
A, B, C, D	16	48.51	47.74	54	36	8	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	17	51.54	50.77	57	36	10	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	18	54.58	53.81	60	40	10	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	19	57.61	56.84	63	40	10	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	20	60.64	59.87	66	45	10	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	21	63.67	62.90	71	45	10	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	22	66.70	65.93	75	45	10	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	23	69.74	68.97	79	55	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	24	72.77	72.00	79	55	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	25	75.80	75.03	83	58	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	26	78.83	78.06	87	58	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	27	81.86	81.09	87	58	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	28	84.90	84.13	91	58	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	29	87.93	87.16	93	58	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	30	90.96	90.19	97	70	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	32	97.02	96.25	103	70	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	34	103.09	102.32	111	70	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	35	106.12	105.35	111	70	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	36	109.15	108.38	115	70	12	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	40	121.28	120.51	127	70	15	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	42	127.34	126.57	135	70	15	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	44	133.41	132.64	142	70	15	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	45	136.44	135.67	142	70	15	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	48	145.54	144.77	152	70	15	19	32	25.4	38	31.8	45	44.5	58
A, B, C, D	60	181.92	181.15	-	75	15	19	42	25.4	45	31.8	50	44.5	60
A, B, C, D	72	218.30	217.53	-	75	15	19	42	25.4	45	31.8	50	44.5	60

◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例:

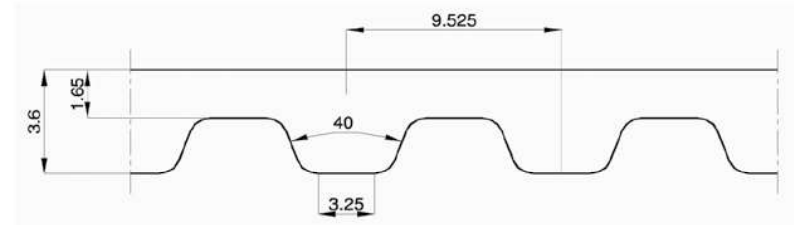


MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带 (聚胺脂)

◆ L Series / 系列

Material: Polyurethane / 材料: 聚胺脂

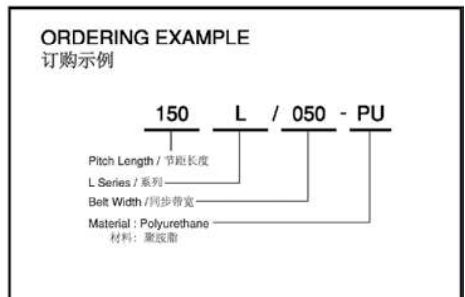


◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	050 (12.7mm)	075 (19.1mm)	100 (25.4mm)
Breaking Strength (N) 断裂强度	2940	4650	6050
Max. Traction Load (N) 最大牵引负载	945	1490	2050

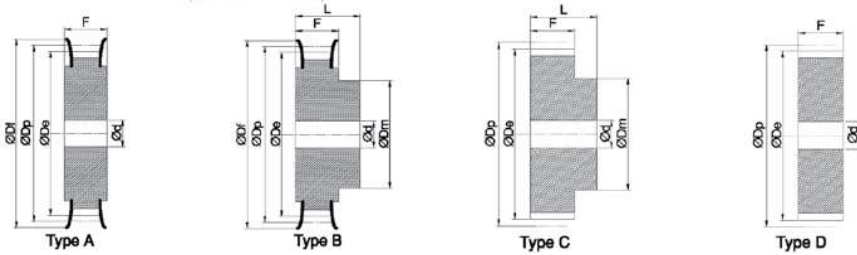
Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英寸	mm 公尺	
86 L	8.6	218.6	23
124 L	12.4	314.33	33
150 L	15.0	381.0	40
187 L	18.8	476.2	50
202 L	20.3	514.4	54
210 L	21.0	533.4	56
225 L	22.5	571.5	60
240 L	24.0	609.6	64
255 L	25.5	647.7	68
270 L	27.0	685.8	72
285 L	28.5	723.9	76
300 L	30.0	762.0	80
322 L	32.3	817.9	86
345 L	34.5	876.3	92
367 L	36.8	933.4	98
390 L	39.0	990.6	104
420 L	42.0	1,066.8	112
450 L	45.0	1,143.0	120
480 L	48.0	1,219.2	128
510 L	51.0	1,295.4	136
540 L	54.0	1,371.6	144
570 L	57.0	1,447.8	152
600 L	60.0	1,524.0	160



Timing Pulleys

同步带轮

◆ H Series / 系列



◆ Dimensions 测量尺寸

Unit 单位: mm

Type 类型	Teeth 齿数	Dp	De	Df	Dm	d	For Belt Width / 同步带宽度									
							075		100		150		200		300	
							F	L	F	L	F	L	F	L	F	L
A, B, C, D	14	56.60	55.22	63	40	14*	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	15	60.64	59.26	66	45	14*	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	16	64.68	63.30	71	45	14*	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	17	68.73	67.35	75	45	14*	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	18	72.77	71.39	79	55	14*	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	19	76.81	75.43	83	60	14*	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	20	80.85	79.47	87	62	14*	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	21	84.90	83.52	91	65	14*	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	22	88.94	87.56	93	68	14*	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	23	92.98	91.60	97	72	14	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	24	97.02	95.64	103	72	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	25	101.07	99.69	106	72	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	26	105.11	103.73	111	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	27	109.15	107.77	115	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	28	113.19	111.81	119	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	29	117.24	115.86	123	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	30	121.28	119.90	127	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	32	129.36	127.98	135	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	34	137.45	136.07	142	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	35	141.49	140.11	148	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	36	145.54	144.16	152	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	38	153.62	152.24	158	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	40	161.71	160.33	168	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	42	169.79	168.41	175	80	20	26.4	40	31.8	45	46	58	58.7	70	85.7	100
A, B, C, D	44	177.88	176.50	184	80	20	26.4	40	31.8	50	46	58	58.7	70	85.7	100
A, B, C, D	45	181.92	180.54	192	80	20	26.4	40	31.8	50	46	58	58.7	70	85.7	100
A, B, C, D	48	194.05	192.67	200	90	20	26.4	40	31.8	50	46	65	58.7	75	85.7	100
A, B, C, D	60	242.56	241.18	-	90	20	26.4	40	31.8	50	46	65	58.7	75	85.7	100
A, B, C, D	72	291.07	289.69	-	100	20	26.4	40	31.8	55	46	65	58.7	75	85.7	100

◆ Non-standard Timing Pulleys can be machined on request - Please contact us.
可设计制造非标准规格的同步带轮 - 请联系我们。

◆ Ordering Example 订购示例:

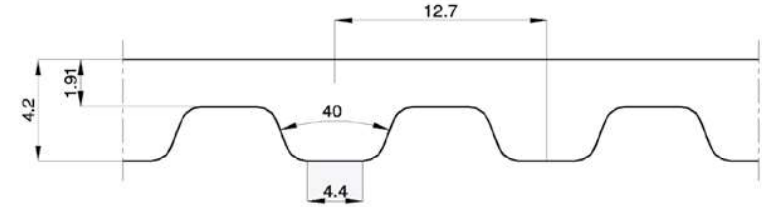


MEGAPOWER - PU Endless Timing Belt

MEGAPOWER - 无尽头型同步带 (聚胺脂)

◆ H Series / 系列

Material: Polyurethane / 材料: 聚胺脂



◆ Specifications 规格

Unit 单位: mm 毫米

Standard Belt Width (mm) 标准带宽	075 (19.1 mm)	100 (25.4 mm)	150 (38.1 mm)	200 (50.8 mm)	300 (76.2 mm)
Breaking Strength (N) 断裂强度	6210	8040	12420	16080	24120
Max. Traction Load (N) 最大牵引负载	1970	2560	3940	5120	7680

Code 代码	Pitch Length 节距长度		Teeth 齿数
	Inches 英尺	mm 公尺	
230 H	23.0	584.2	46
240 H	24.0	609.6	48
270 H	27.0	685.8	54
300 H	30.0	762.0	60
330 H	33.0	838.2	66
360 H	36.0	914.4	72
390 H	39.0	990.6	78
420 H	42.0	1,066.8	84
450 H	45.0	1,143.0	90
480 H	48.0	1,219.2	96
510 H	51.0	1,295.4	102

ORDERING EXAMPLE

订购示例

270 H / 075 - PU

Pitch Length / 节距长度: 270
 H Series / 系列: H
 Belt Width / 同步带宽度: 075
 Material: Polyurethane
 材料: 聚胺脂

Power Transmission
动力传输

Power Transmission
动力传输

MEGALINEAR - PU Open/Jointed Timing Belt

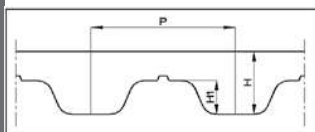
MEGALINEAR - 开口/连口型同步带（聚胺脂）

◆ MEGALINEAR timing belts are manufactured in polyurethane with steel cord. It comes in various standard width for both open / jointed types.

MEGALINEAR系列的同步带是以聚胺脂加钢芯制造而成的，无论是开口/连口型均有多种标准宽度供选择。

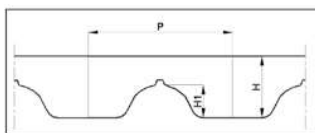
Material: Polyurethane / 材料：聚胺脂

Power Transmission
动力传输



T5 - T10 - T20

T5	T10	T20
Standard width(mm) 标准宽度 (mm)	Standard width(mm) 标准宽度 (mm)	Standard width(mm) 标准宽度 (mm)
6	12	25
10	16	32
16	25	50
25	32	75
32	50	100
50	75	150
75	100	
100	150	
P 5 P 10 P 20		
H 2.2 H 4.5 H 8.0		
H1 1.2 H1 2.5 H1 5.0		



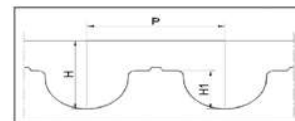
AT3 - AT5 - AT10 - AT20

AT3	AT5	AT10	AT20
Standard width(mm) 标准宽度 (mm)	Standard width(mm) 标准宽度 (mm)	Standard width(mm) 标准宽度 (mm)	Standard width(mm) 标准宽度 (mm)
10	6	16	25
20	10	25	32
25	16	32	50
50	20	50	75
	25	75	100
	32	100	150
	50	150	200
	75		
	100		
P 3 P 5 P 10 P 20			
H 1.9 H 2.7 H 4.5 H 8.0			
H1 1.1 H1 1.2 H1 2.5 H1 5.0			

MEGALINEAR - PU Open/Jointed Timing Belt

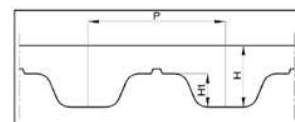
MEGALINEAR - 开口/连口型同步带（聚胺脂）

◆ Material: Polyurethane / 材料：聚胺脂



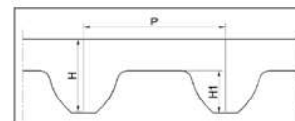
HTD3M - HTD5M - HTD8M - HTD14M

HTD3M	HTD5M	HTD8M	HTD14M
Standard width(mm) 标准宽度 (mm)	Standard width(mm) 标准宽度 (mm)	Standard width(mm) 标准宽度 (mm)	Standard width(mm) 标准宽度 (mm)
10	10	10	25
20	15	15	40
25	25	20	55
50	50	30	85
		50	100
		85	115
		100	
P 3 P 5 P 8 P 14			
H 2.2 H 3.6 H 5.6 H 10.0			
H1 1.13 H1 2.1 H1 3.4 H1 6.1			



MXL - XL - L - H - XH

XL	L	H	XH
Standard width(inch) 标准宽度 (inch)	Standard width(inch) 标准宽度 (inch)	Standard width(inch) 标准宽度 (inch)	Standard width(inch) 标准宽度 (inch)
0.25	0.37	0.50	0.50
0.31	0.50	0.75	1.00
0.37	0.75	1.00	1.50
0.50	1.00	1.50	2.00
0.75	1.50	2.00	3.00
1.00	2.00	3.00	4.00
1.50	4.00	4.00	6.00
2.00			
P 5.08 P 9.525 P 12.7 P 22.225			
H 2.30 H 3.60 H 4.30 H 11.2			
H1 1.27 H1 1.90 H1 2.29 H1 6.35			



STD5M - STD8M

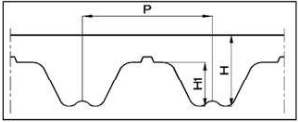
STD 5M	STD 8M
Standard width(mm) 标准宽度 (mm)	Standard width(mm) 标准宽度 (mm)
10	10
20	12
25	15
50	20
	30
	50
	85
P 5.0 P 8.0	
H 3.4 H 5.1	
H1 1.91 H1 3.05	

Power Transmission
动力传输

MEGALINEAR - PU Open/Jointed Timing Belt

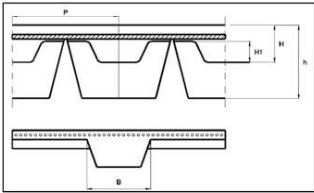
MEGALINEAR - 开口/连口型同步带（聚胺脂）

◆ Material: Polyurethane / 材料: 聚胺脂



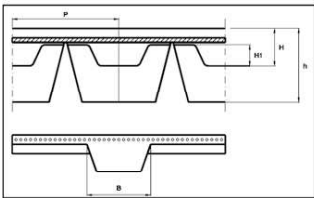
RPP 5 - RPP 8 - RPP 14

RPP 5		RPP 8		RPP 14	
Standard width(mm) 标准宽度 (mm)		Standard width(mm) 标准宽度 (mm)		Standard width(mm) 标准宽度 (mm)	
10		10		40	
15		15		55	
25		20		85	
30		30		115	
50		50		150	
85		85			
100		100			
P 5		P 8		P 14	
H 3.8		H 5.4		H 10.0	
H1 2.0		H1 3.2		H1 6.0	



TG5 - TG10 - TG20

TG 5 K6		TG 10 K6		TG10K13		TG 20 K13	
Standard width(mm) 标准宽度 (mm)		Standard width(mm) 标准宽度 (mm)		Standard width(mm) 标准宽度 (mm)		Standard width(mm) 标准宽度 (mm)	
25		50		25		50	
32				32		75	
50				50		100	
				75			
				100			
P 5		P 10		P 10		P 20.0	
H 2.2		H 4.5		H 4.5		H 8.0	
H1 1.2		H1 2.5		H1 2.5		H1 5.0	
B 6.0		H1 6.0		H1 13.0		H1 13	
h 4.0		H1 4.0		H1 6.5		H1 6.5	



ATG10 - ATG20 - HG

ATG 10 K13		ATG 20 K13		HG K13	
Standard width(mm) 标准宽度 (mm)		Standard width(mm) 标准宽度 (mm)		Standard width(mm) 标准宽度 (mm)	
32		150		38.1	
50				50.8	
75				76.2	
100				101.6	
150					
P 10.0		P 20.0		P 12.7	
H 4.5		H 8.0		H 4.3	
H1 2.5		H1 5.0		H1 2.29	
B 13.0		H1 13.0		H1 13.0	
h 6.5		H1 6.5		H1 6.5	

MEGALINEAR - PU Open/Jointed Timing Belt

MEGALINEAR - 开口/连口型同步带（聚胺脂）

Please refer to the table below for the technical load ratings of each belt series.
每种同步带系列的技术负载比例，请参阅下表。

The minimum jointed length must be more than 900mm.
最小的接口长度必须超过900mm。

Technical Data / 技术数据

T 5 Series / 系列			
Belt Width 同步带宽度 (mm)	Max. Traction Load 最大张力强度 Open End (N) 未端开口型	Max. Traction Load 最大张力强度 Jointed (N) 接口型	Breaking Strength 断裂强度 (N)
6	190	/	570
10	305	150	915
16	610	305	1,830
25	985	490	2,975
32	1,290	645	3,890
50	1,970	985	5,950
75	2,680	1340	8,100
100	3,400	1700	10,200

T 10 Series / 系列			
Belt Width 同步带宽度 (mm)	Max. Traction Load 最大张力强度 Open End (N) 未端开口型	Max. Traction Load 最大张力强度 Jointed (N) 接口型	Breaking Strength 断裂强度 (N)
12	1,280	/	4,020
16	1,630	815	5,110
25	2,560	1,280	8,040
32	3,370	1,685	10,600
50	5,230	2,615	16,450
75	8,260	4,130	25,960
100	10,470	5,235	32,900
150	12,000	6,000	38,000

T 20 Series / 系列			
Belt Width 同步带宽度 (mm)	Max. Traction Load 最大张力强度 Open End (N) 未端开口型	Max. Traction Load 最大张力强度 Jointed (N) 接口型	Breaking Strength 断裂强度 (N)
25	3,660	1,600	13,500
32	4,880	2,050	16,500
50	8,050	3,250	26,500
75	12,200	4,900	34,000
100	16,100	6,750	48,000
150	25,300	12,650	86,400

AT 5 Series / 系列			
Belt Width 同步带宽度 (mm)	Max. Traction Load 最大张力强度 Open End (N) 未端开口型	Max. Traction Load 最大张力强度 Jointed (N) 接口型	Breaking Strength 断裂强度 (N)
6	395	/	1,225
10	630	315	1,960
16	1,260	630	3,920
20	1,730	865	5,390
25	2,050	1025	6,370
32	2,680	1340	8,330
50	4,255	2125	13,230

AT 10 Series / 系列			
Belt Width 同步带宽度 (mm)	Max. Traction Load 最大张力强度 Open End (N) 未端开口型	Max. Traction Load 最大张力强度 Jointed (N) 接口型	Breaking Strength 断裂强度 (N)
16	2,190	/	7,480
25	3,660	1,830	12,450
32	4,880	2,440	16,600
50	8,050	4,025	27,400
75	12,200	6,100	41,500
100	16,600	8,300	56,500
150	25,300	12,600	86,400

AT 20 Series / 系列			
Belt Width 同步带宽度 (mm)	Max. Traction Load 最大张力强度 Open End (N) 未端开口型	Max. Traction Load 最大张力强度 Jointed (N) 接口型	Breaking Strength 断裂强度 (N)
25	6,020	3,010	19,630
32	7,400	3,700	24,160
50	12,040	6,020	39,270
75	18,050	9,025	58,900
100	25,000	12,500	81,560
150	36,400	18,050	119,000
200	49,100	24,550	160,500

HTD 5M Series / 系列			
Belt Width 同步带宽度 (mm)	Max. Traction Load 最大张力强度 Open End (N) 未端开口型	Max. Traction Load 最大张力强度 Jointed (N) 接口型	Breaking Strength 断裂强度 (N)
10	630	315	1,690
15	1,180	590	3,675
25	2,050	1025	6,370
50	4,255	2128	13,230

HTD 8M Series / 系列			
Belt Width 同步带宽度 (mm)	Max. Traction Load 最大张力强度 Open End (N) 未端开口型	Max. Traction Load 最大张力强度 Jointed (N) 接口型	Breaking Strength 断裂强度 (N)
10	1,220	610	4,150
15	1,950	975	6,640
20	2,920	1,460	9,960
30	4,390	2,195	14,940
50	8,050	4,025	27,400
85	13,900	6,950	47,320
100	16,600	8,300	56,500

HTD 14M Series / 系列			
Belt Width 同步带宽度 (mm)	Max. Traction Load 最大张力强度 Open End (N) 未端开口型	Max. Traction Load 最大张力强度 Jointed (N) 接口型	Breaking Strength 断裂强度 (N)
25	6,020	3,010	19,630
40	9,260	4,630	30,200
55	11,570	5,785	37,760
85	20,830	10,415	67,960
100	25,000	12,500	81,560

◆ Ordering Example 订购示例: **12 T 5 / 2800 - M**
 Belt Width / 同步带宽度 ———— M - Open End / 开口末端
 ———— V - Jointed / 连口型
 Belt Series / 同步带系列 ———— Pitch Length / 节距长度

MEGALINEAR - PU Open/Jointed Timing Belt

MEGALINEAR - 开口/连口型同步带（聚胺脂）

Please refer to the table below for the technical load ratings of each belt series.
每种同步带系列的技术负载比例，请参阅下表。

The minimum jointed length must be more than 900mm.
最小的接口长度必须超过900mm。

Technical Data / 技术数据

XL Series / 系列			
Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度	Max. Traction Load 最大张力强度	Breaking Strength 断裂强度 (N)
Open End (N) 末端开口型	Jointed (N) 接口型	Jointed (N) 接口型	(N)
0.25	190	/	570
0.31	228	/	685
0.37	305	150	915
0.50	450	225	1,370
0.75	720	360	2,170
1.00	985	490	2,975
2.00	2,050	1,025	6,170

L Series / 系列			
Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度	Max. Traction Load 最大张力强度	Breaking Strength 断裂强度 (N)
Open End (N) 末端开口型	Jointed (N) 接口型	Jointed (N) 接口型	(N)
0.37	630	315	1,860
0.50	945	470	2,940
0.75	1,490	745	4,650
1.00	2,050	1,025	6,050
1.50	3,150	1,575	9,800
2.00	4,250	2,125	13,230

H Series / 系列			
Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度	Max. Traction Load 最大张力强度	Breaking Strength 断裂强度 (N)
Open End (N) 末端开口型	Jointed (N) 接口型	Jointed (N) 接口型	(N)
0.50	1,160	580	3,650
0.75	1,970	985	6,210
1.00	2,560	1,280	8,040
1.50	3,720	1,860	11,700
2.00	5,230	2,615	16,450
3.00	7,450	3,725	25,300
4.00	10,470	5,235	32,900

XH Series / 系列			
Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度	Max. Traction Load 最大张力强度	Breaking Strength 断裂强度 (N)
Open End (N) 末端开口型	Jointed (N) 接口型	Jointed (N) 接口型	(N)
1.00	190	/	570
1.50	228	/	685
2.00	305	150	915
3.00	450	225	1,370
4.00	720	360	2,170
6.00	985	490	2,975

RPP5 Series / 系列			
Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度	Max. Traction Load 最大张力强度	Breaking Strength 断裂强度 (N)
Open End (N) 末端开口型	Jointed (N) 接口型	Jointed (N) 接口型	(N)
10	875	/	2,680
15	1,330	/	4,020
25	2,375	/	7,230
30	2,660	/	8,040
50	4,750	/	15,000

RPP8 Series / 系列			
Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度	Max. Traction Load 最大张力强度	Breaking Strength 断裂强度 (N)
Open End (N) 末端开口型	Jointed (N) 接口型	Jointed (N) 接口型	(N)
10	1,460	/	5,460
20	3,020	/	10,920
30	4,480	/	17,290
50	7,100	/	30,940
85	12,650	/	53,600
100	15,800	/	63,595

Ordering Example 订购示例: **12 RPP5 / 900 - M**
 Belt Width / 同步带宽度: 12
 Belt Series / 同步带系列: RPP5
 Pitch Length / 节距长度: 900
 M - Open End / 开口末端
 V - Jointed / 连口型

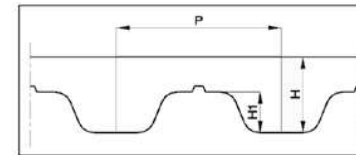
MEGAFLEX - Truly Endless PU Timing Belt

MEGAFLEX - 真正无尽头型同步带（聚胺脂）

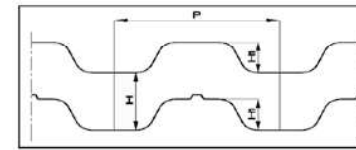
MEGAFLEX endless timing belts are manufactured in polyurethane with continous steel cord without any joint. The combination results in excellent product performances, making it suitable for all power transmission, high speed and severe conveying applications with high loads.

MEGAFLEX无尽头同步带是由聚胺脂和连贯的无接头钢芯制造而成的。这种生产制造赋予了它优秀的性能，且适用于所有的动力传输，高速以及承受高负载搬运等用途。

Material: Polyurethane / 材料: 聚胺脂



T5 - T10 - T20



T5DL - T10DL - T20DL

T5 / T5DL	
Standard width(mm) 标准宽度 (mm)	
6	
10	
16	
25	
32	
50	
75	
100	
150	

T10 / T10DL	
Standard width(mm) 标准宽度 (mm)	
10	
16	
25	
32	
50	
75	
100	
150	

T20 / T20DL	
Standard width(mm) 标准宽度 (mm)	
10	
16	
25	
32	
50	
75	
100	
150	

P	5
---	---

P	10
---	----

P	20
---	----

H	2.2
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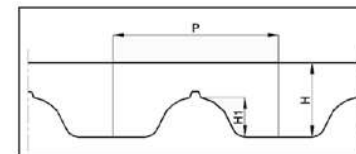
H	4.5
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H	8.0
---	-----

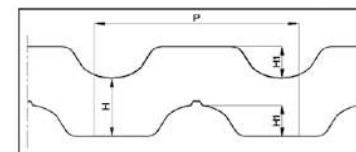
H1	1.2
----	-----

H1	2.5
----	-----

H1	5.0
----	-----



AT5 - AT10 - AT20



AT5DL - AT10DL - AT20DL

AT5 / AT5DL	
Standard width(mm) 标准宽度 (mm)	
10	
16	
25	
32	
50	
75	
100	
150	

AT10 / AT10DL	
Standard width(mm) 标准宽度 (mm)	
10	
16	
25	
32	
50	
75	
100	
150	

AT20 / AT20DL	
Standard width(mm) 标准宽度 (mm)	
10	
16	
25	
32	
50	
75	
100	
150	

P	5
---	---

P	10
---	----

P	20
---	----

H	2.7
---	-----

H	4.5
---	-----

H	8.0
---	-----

H1	1.2
----	-----

H1	2.5
----	-----

H1	5.0
----	-----

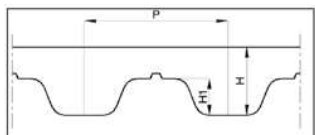
Power Transmission
动力传输

Power Transmission
动力传输

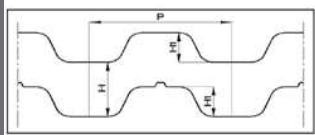
MEGAFLEX - Truly Endless PU Timing Belt

MEGAFLEX - 真正无尽头型同步带（聚胺脂）

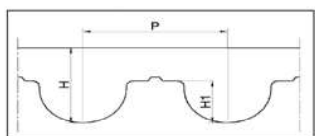
◆ Material: Polyurethane / 材料: 聚胺脂



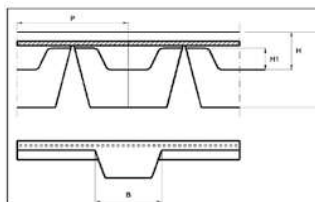
XL - L - H - XH



XLDL - LDL - HDL - XHDL



HTD8M



ATG10

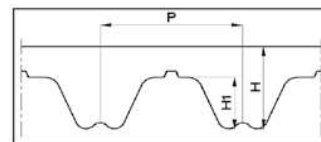
XL / XLDL Standard width(mm) 标准宽度 (mm)	L / LDL Standard width(mm) 标准宽度 (mm)	H / HDL Standard width(mm) 标准宽度 (mm)	XH / XHDL Standard width(mm) 标准宽度 (mm)
19.53	19.53	19.53	19.53
12.7	12.7	12.7	12.7
19.1	19.1	19.1	19.1
25.4	25.4	25.4	25.4
38.1	38.1	38.1	38.1
50.8	50.8	50.8	50.8
76.2	76.2	76.2	76.2
101.6	101.6	101.6	101.6
152.4	152.4	152.4	152.4
P 5.0	P 9.525	P 12.7	P 22.225
H 2.30	H 3.60	H 4.30	H 11.2
H1 1.27	H1 1.90	H1 2.29	H1 6.35

HTD8M Standard width(mm) 标准宽度 (mm)	ATG 10 K13 Standard width(mm) 标准宽度 (mm)
10	10
16	16
25	25
32	32
50	50
75	75
100	100
150	150
P 8	P 10.0
H 5.6	H 4.5
H1 3.4	H1 2.5
	B 13.0
	h 6.5

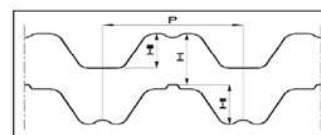
MEGAFLEX - Truly Endless PU Timing Belt

MEGAFLEX - 真正无尽头型同步带（聚胺脂）

◆ Material: Polyurethane / 材料: 聚胺脂



RPP 5 - RPP 8 - RPP 14



RPP 5DL - RPP 8DL - RPP 14DL

RPP 5 / RPP 5DL Standard width(mm) 标准宽度 (mm)	RPP 8 / RPP 8DL Standard width(mm) 标准宽度 (mm)	RPP 14 / RPP14DL Standard width(mm) 标准宽度 (mm)
10	10	10
15	15	15
20	20	20
25	25	25
30	30	40
50	50	50
85	85	55
100	100	85
150	150	100
		150
P 5	P 8	P 14
H 3.8	H 5.4	H 10.0
H1 2.0	H1 3.2	H1 6.0

Power Transmission
动力传输

Power Transmission
动力传输

MEGAFLEX - Truly Endless PU Timing Belt

MEGAFLEX - 真正无尽头型同步带（聚胺脂）

Please refer to the table below for the technical load ratings of each belt series.

每种同步带系列的技术负载比例，请参阅下表。

Technical Data / 技术数据

T 5 Series / 系列		T 10 Series / 系列		T 20 Series / 系列		HTD 8M Series / 系列	
Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)
6	165	16	1,290	16	1,980	10	1,220
10	330	25	2,130	25	3,330	15	1,950
16	595	32	2,770	32	4,380	20	2,920
25	960	50	4,440	50	7,500	30	4,390
32	1,260	75	6,750	75	11,500	50	8,050
50	1,990	100	9,050	100	15,300	85	13,900
75	3,020	150	13,600	150	23,800	100	16,600
100	4,080						
150	6,130						

AT 5 Series / 系列		AT 10 Series / 系列		AT 20 Series / 系列		ATG 10 Series / 系列	
Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)
10	640	16	1,980	25	5,620	150	23,800
16	1,100	25	3,330	32	7,150		
25	1,820	32	4,380	50	11,250		
32	2,350	50	7,500	75	16,100		
50	3,950	75	11,500	100	22,500		
75	5,750	100	15,300	150	33,200		
100	7,600	150	23,800				
150	11,500						

XL Series / 系列		L Series / 系列		H Series / 系列		XH Series / 系列	
Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)
12.7	420	12.7	610	12.7	820	38.1	5,570
19.1	670	19.1	1,030	19.1	1,320	50.8	8,700
25.4	910	25.4	1,430	25.4	1,800	76.2	12,100
38.1	1,390	38.1	2,250	38.1	2,780	101.6	17,200
50.8	1,880	50.8	3,070	50.8	3,760	152.4	25,000
76.2	2,850	76.2	4,710	76.2	5,720		
101.6	3,820	101.6	6,350	101.6	7,680		
152.4	5,750	152.4	9,540	152.4	11,600		

RPP 5 Series / 系列		RPP 8 Series / 系列		RPP 14 Series / 系列	
Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)	Belt Width 同步带宽 (mm)	Max. Traction Load 最大张力强度 (N)
10	875	15	2,000	25	6,700
15	1,330	20	3,020	40	12,300
25	2,375	30	4,480	55	16,750
30	2,660	50	7,100	85	28,500
50	4,750	85	12,650	100	33,500
85	8,330	100	13,800	150	51,000
100	9,830	150	23,800		
150	14,800				

ORDERING EXAMPLE 订购示例

12 T5 / 2800 - M

Belt Width (mm) 同步带宽度
Belt Series 同步带系列
Pitch Length 距长度
M - Open End / 开口末端
V - Jointed / 连口型

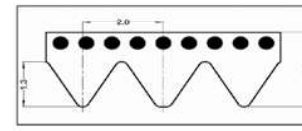
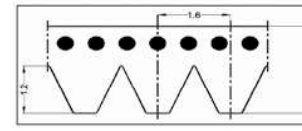
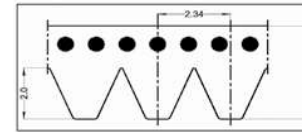
MEGARIB - PU Endless Transmission Belt

MEGARIB - 无尽头型传送带（聚胺脂）

- MEGARIB belts are manufactured in polyurethane with polyester high tension cords, which combine the high flexibility of the flat belts with the power transmission capability of vee belt.

MEGARIB 同步带是由聚胺脂和有高张力钢芯的聚酯制造而成的。它结合了平直同步带的高韧性及V形同步带的动力传输能力。

Material: Polyurethane / 材料: 聚胺脂



ORDERING EXAMPLE 订购示例

360 J - R8

Belt Length (mm) 同步带长度
Belt Type 同步带类型
No. of Ribs 峰数

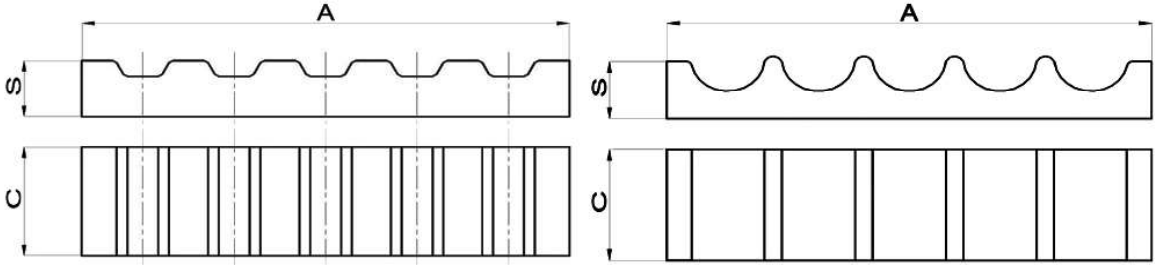
J	H	TB2
Standard length (mm) 标准长度 (mm)	Standard length (mm) 标准长度 (mm)	Standard length (mm) 标准长度 (mm)
220	178	156
271	217	170
275	223	190
278	227	200
288	229	220
304	295	231
330	330	248
345	340	266
356	375	295
360	389	310
381	400	327
392	485	330
406	507	333
431	588	345
444	602	360
457	609	380
471	650	390
483	768	400
508	935	430
558	1000	480
610	1086	510
660	1120	526
681	1163	535
711	1203	598
762	1240	630
864	1775	660
914	1976	675
953		725
1010		770
1086		1186
1120		
1163		
1202		
1239		
1268		
1397		

P	H	Ht
Standard length (mm) 标准长度 (mm)	Standard length (mm) 标准长度 (mm)	Standard length (mm) 标准长度 (mm)
2.34	1.6	2.0
3.5	2.5	2.2
2.0	1.2	1.3

Clamping Plates - For Open Timing Belt

钳金属板 - 用于开口型同步带

Power Transmission
动力传输



XL - L - H - T5 - T10 - T20 - AT5 - AT10 - AT20 Series / 系列

HTD Series / 系列

Dimensions for **A** and **C** are customized according to drawing.
A和C的尺寸大小有制图定义。

CLAMPING PLATES THICKNESS / 夹钳金属板厚度										
	XL	L	H	T5 ~ AT5	T10 ~ AT10	T20 ~ AT20	HTD 3M	HTD 5M	HTD 8M	HTD 14M
S (mm)	8	15	22	10	10	20	8	8	15	22

The clamping plates are used to clamp the tails of the open belts.
夹钳金属板使用来夹住同步带的尾端。

Upon customer's request, the clamping plates can be customized according to drawings.
夹钳金属板可根据顾客的需求，依图量身定制。

As the belt cannot be stretched with the clamping plates, other **tension method** should be considered.
因同步带不能用夹钳金属板来伸长，请参考使用其他方法拉紧同步带。

For the ordering of clamping plates, please specify the belts types with attached drawings.
欲订购夹钳金属板时，请附图并说明同步带的类型。

Radial Ball Bearing

径向滚珠轴承



Definition & Usage

A bearing is a sliding or rolling component used to reduce friction in a machine. Bearings make many of the machines we use today possible. Without bearings, we would be constantly replacing parts that wore out from friction.

Bearings reduce friction by providing smooth metal balls or rollers, and a smooth inner and outer metal surface for the balls to roll against. These balls or rollers “bear” the load, allowing the device to spin smoothly.

Types

Single-row deep groove ball bearings are the most common type of rolling bearing, having a wide range of suitable applications. The raceway grooves on both inner and outer rings have circular arcs of slightly larger radius than that of the balls. In addition to radial loads, axial loads can be applied in either direction. Because of their low torque, they offer high-speed operation with low power loss.

定义与用途

轴承在机器里用于减少摩擦力的滑动或滚动零件。正是因为有了轴承，才使我们今天的许多机器能顺利地运转。没有了轴承，我们将要一直地更换因为摩擦而损坏的零件。

夹轴承提供光滑的内和外金属表面，让同样光滑的金属球或卷轴滚动，从而减少摩擦力。这些金属球或卷轴能承受载重量，使设备顺利地旋转。

类型

单排深槽式轴承是最普遍的转动轴承。它具有广大的使用范围，在环内外两侧的凹槽轨道有比球的半径稍微大一点的圆弧。加上半径负载，轴向负载可以被运用在任何方向上。由于他们的低转力矩，所以他们可以在高速度的运行中只损失少量的能量。

Miniature and flanged bearings are made with high levels of precision. Therefore these are generally used in applications where accurate rotational performance and low torque is necessary, and load capacity is a secondary issue.

Often, a shield or seal is installed to retain lubricant and to prevent contamination from entering the bearing raceways. These are available in a variety of materials and configurations.

Care & Maintenance

As with most machine elements, bearings will tend to wear out with use. However, the lifespan of a bearing can be very long if proper care and maintenance is practiced. To extend the lifespan and efficiency of your bearings, always ensure that it is kept cool and clean. The bearing should be run within the rated load and lubrication should be applied at intervals, depending on usage level and working environments.

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微小和法兰型轴承均以高水平的精确度制造。因此它们一般被运用在需要精确旋转和低力矩的应用。负载容量则是次要的问题。

为了保持润滑剂的作用和阻止污染物进入轴承轨道，我们通常安装一防护罩或者密封条。这些防护罩或密封条有多样化的原料和结构。

照料于维护

同多数的机械元件一样，轴承也会磨损。尽管如此，如果给予轴轮适合的照料于维护，他们的是使用期将会很长。要使轴承的使用期限延长和效率提高，一定要将轴承保持干净和阴凉。轴承应该在规定的承载量范围内运作，并且按照使用水平和工作环境，在间隔给予润滑剂。

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Bearing Symbol Description

- d Bearing bore (inner diameter)
- D Bearing outer diameter
- B Open bearing width
- B₁ Flange Bearing width
- D_f Bearing outer diameter (includes flange diameter)
- B_f Open bearing flange width
- B_{f1} Shield bearing flange width
- C_r Radial basic dynamic load rating
- C_{or} Basic static load rating

轴承符号种类

- d 轴承孔（内直径）
- D 轴承外直径
- B 开口轴承宽度
- B₁ 法兰轴承宽度
- D_f 轴承外直径（包括法兰尺寸）
- B_f 开口轴承法兰宽度
- B_{f1} 防护轴承法兰宽度
- C_r 径向基本动力负载等级
- C_{or} 基本静态负载等级

Conversion Table / 换算表

FRACTION 分数	INCH 英尺	MM 毫米
1/32	0.0312	0.7937
	0.0394	1.000
	0.0400	1.0160
3/64	0.0469	1.1906
	0.0472	1.2000
	0.0550	1.3970
	0.0591	1.5000
1/16	0.0525	1.5875
	0.0709	1.8000
5/64	0.0781	1.9844
	0.0787	2.0000
	0.0906	2.3012
3/32	0.0937	2.3812
	0.0984	2.5000
	0.1024	2.6000
	0.1094	2.7781
7/64	0.1102	2.8000
	0.1181	3.0000
	0.1250	3.1750
1/8	0.1378	3.5000
	0.1406	3.5719
5/32	0.1562	3.9887
	0.1575	4.0000
	0.1875	4.7625
	0.1969	5.0000
7/32	0.2187	5.5562
	0.2362	6.0000

FRACTION 分数	INCH 英尺	MM 毫米
1/4	0.2500	6.3500
	0.2756	7.0000
5/16	0.3125	7.9375
	0.3150	8.0000
	0.3543	9.0000
3/8	0.3750	9.5250
	0.3937	10.0000
	0.4331	11.0000
	0.4724	12.0000
1/2	0.5000	12.7000
	0.5118	13.0000
	0.5512	14.0000
	0.5906	15.0000
5/8	0.6250	15.8750
	0.6299	16.0000
	0.6693	17.0000
	0.7087	18.0000
3/4	0.7480	19.0000
	0.7500	19.0500
	0.7874	20.0000
7/8	0.8268	21.0000
	0.8661	22.0000
	0.8750	22.2250
1	0.9843	25.0000
	1.0000	25.4000
1 1/4	1.1811	30.0000
	1.2500	31.7500

Plain Type Bearings

普通型轴承



▶ Page 194

Metric Series / 公制系列

- ◆ Miniature bearings: Inner Diameter 1 - 9mm / 微型轴承: 内径 1 - 9mm
- ◆ Standard bearings: 10mm & above / 标准轴承: 10mm 或以上

Inch Series / 英寸系列

- ◆ Inner Diameter 1.016 - 15.875mm / 内径 1.016 - 15.875mm

Flange Type Bearings

法兰型轴承



▶ Page 200

Metric Series / 公制系列

- ◆ Miniature bearings: Inner Diameter 1 - 9mm / 微型轴承: 内径 1 - 9mm
- ◆ Standard bearings: 10mm & above / 标准轴承: 10mm 或以上

Inch Series / 英寸系列

- ◆ Inner Diameter 1.191 - 15.88mm / 内径 1.191 - 15.88mm

Extra Thin Bearings

超薄型轴承



▶ Page 199

Metric Series / 公制系列

- ◆ ET

Inch Series / 英寸系列

- ◆ ER

Thrust Bearings

止推轴承



▶ Page 206

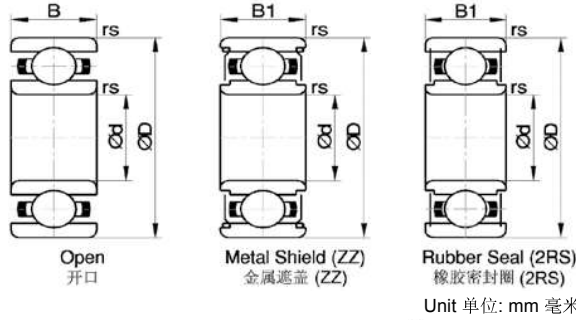
Metric Series / 公制系列

- ◆ FM
- ◆ F

Plain Type Bearings

普通型轴承

◆ **Miniature Type / 微型**
Metric Series / 公制系列



◆ Dimensions 测量尺寸

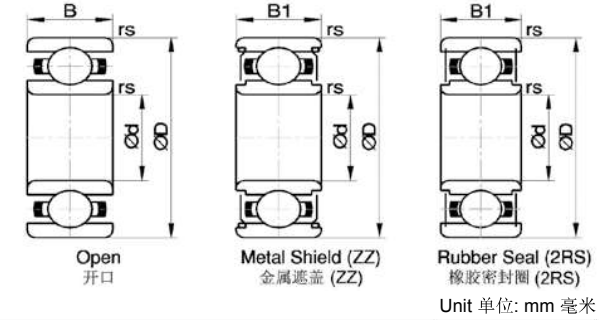
Boundary Dimensions 边界尺寸					Bearing Number 轴承号码			Basic Load Rating 基本负载等级	
d	D	B	B ₁	rs	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	C _r (kgf)	C _{or} (kgf)
1	3	1	-	0.05	681	-	-	9.8	2.7
	3	1.5	-	0.05	MR31	-	-	9.8	2.7
	4	1.6	-	0.1	691	-	-	14.4	3.8
1.2	4	1.8	2.5	0.1	MR41X	MR41XZZ	-	11.4	3.4
	4	1.2	2	0.05	681X	681XZZ	681X - 2RS	11.4	3.4
	5	2	2.6	0.15	691X	691XZZ	691X - 2RS	17.2	5.1
1.5	6	2.5	3	0.15	601X	601XZZ	601X - 2RS	33.7	10.1
	5	1.5	2.3	0.08	682	682ZZ	682 - 2RS	17.2	5.1
	5	2	2.5	0.1	MR52	MR52ZZ	MR52 - 2RS	17.2	5.1
2	6	2.3	3	0.15	692	692ZZ	692 - 2RS	33.7	10.1
	6	2.5	2.5	0.15	MR62	MR62ZZ	MR62 - 2RS	33.7	10.1
	7	2.5	3	0.15	MR72	MR72ZZ	MR72 - 2RS	39.4	13.2
2.5	7	2.8	3.5	0.15	602	602ZZ	602 - 2RS	39.4	13.2
	6	1.8	2.6	0.08	682X	682XZZ	682X - 2RS	21.3	7.6
	7	2.5	3.5	0.15	692X	692XZZ	692X - 2RS	39.4	13.2
3	8	2.5	-	0.2	MR82X	MR82XZZ	MR82X - 2RS	56.9	18.4
	8	2.8	4	0.15	602X	602XZZ	602X - 2RS	56.3	18.1
	6	2	2.5	0.1	MR63	MR63ZZ	MR63 - 2RS	21.3	7.6
4	7	2	3	0.1	683	683ZZ	683 - 2RS	31.7	11.4
	8	2.5	3	0.15	MR83	MR83ZZ	MR83 - 2RS	40.3	14.4
	8	3	4	0.15	693	693ZZ	693 - 2RS	56.9	18.4
5	9	2.5	4	0.2	MR93	MR93ZZ	MR93 - 2RS	58.3	19.3
	9	3	5	0.15	603	603ZZ	603 - 2RS	58.3	19.3
	10	4	4	0.15	623	623ZZ	623 - 2RS	64.4	22.3
6	13	5	5	0.2	633	633ZZ	633 - 2RS	132.8	49.8
	7	2	-	0.1	MR74	-	-	31.7	11.7
	7	-	2.5	0.1	-	MR74ZZ	MR74 - 2RS	26.0	11.0
7	8	2	3	0.15	MR84	MR84ZZ	MR84 - 2RS	40.0	14.4
	9	2.5	4	0.1	684	684ZZ	684 - 2RS	65.4	23.2
	10	3	4	0.2	MR104	MR104ZZ	MR104 - 2RS	72.6	27.8
8	11	4	4	0.15	694	694ZZ	694 - 2RS	97.7	35.7
	12	4	4	0.2	604	604ZZ	604 - 2RS	97.7	35.7
	13	5	6	0.3	624	624ZZ	624 - 2RS	132.8	49.8
9	16	5	6	0.3	634	634ZZ	634 - 2RS	136.7	53.4

◆ For Stainless Steel type, add SS in front of the part number.
欲订购不锈钢类型, 请在型号前加SS.

Plain Type Bearings

普通型轴承

◆ **Miniature Type / 微型**
Metric Series / 公制系列



◆ Dimensions 测量尺寸

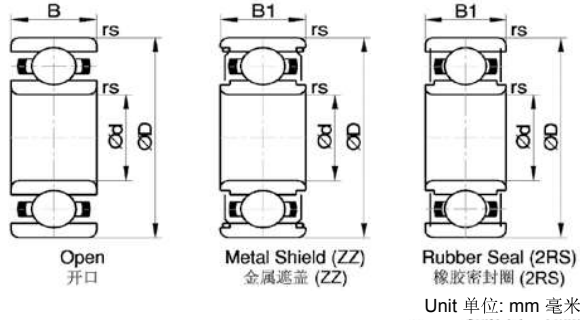
Boundary Dimensions 边界尺寸					Bearing Number 轴承号码			Basic Load Rating 基本负载等级	
d	D	B	B ₁	rs	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	C _r (kgf)	C _{or} (kgf)
5	8	2	-	0.1	MR85	-	-	31.4	12.2
	8	-	2.5	0.1	-	MR85ZZS	MR85 - 2RS	22.2	9.2
	9	2.5	3	0.15	MR95	MR95ZZS	MR95 - 2RS	44.0	17.2
6	10	3	4	0.15	MR105	MR105ZZS	MR105 - 2RS	44.0	17.2
	11	-	4	0.15	-	MR115ZZS	MR115 - 2RS	73.1	28.8
	11	3	5	0.15	685	685ZZ	685 - 2RS	73.1	28.8
7	13	4	4	0.2	695	695ZZ	695 - 2RS	109.9	44.1
	14	5	5	0.2	605	605ZZ	605 - 2RS	135.6	51.7
	16	5	5	0.3	625	625ZZ	625 - 2RS	176.4	68.9
8	19	6	6	0.3	635	635ZZ	635 - 2RS	238.4	91.4
	10	2.5	3	0.15	MR106	MR106ZZS	MR106 - 2RS	50.6	22.2
	12	3	4	0.2	MR126	MR126ZZ	MR126 - 2RS	72.9	30.1
9	13	3.5	5	0.15	686	686ZZ	686 - 2RS	110.4	45.1
	15	5	5	0.2	696	696ZZ	696 - 2RS	136.7	53.4
	17	6	6	0.3	606	606ZZ	606 - 2RS	230.9	86.3
10	19	6	6	0.3	626	626ZZ	626 - 2RS	238.4	91.4
	22	7	7	0.3	636	636ZZ	636 - 2RS	340.1	145.2
	11	2.5	3	0.15	MR117	MR117ZZS	MR117 - 2RS	46.4	20.6
11	13	3	4	0.2	MR137	MR137ZZ	MR137 - 2RS	55.2	28.2
	14	3.5	5	0.15	687	687ZZ	687 - 2RS	119.7	52.3
	17	5	5	0.3	697	697ZZ	697 - 2RS	163.8	73.4
12	19	6	6	0.3	607	607ZZ	607 - 2RS	238.4	91.4
	22	7	7	0.3	627	627ZZ	627 - 2RS	335.4	140.7
	26	9	9	0.3	637	637ZZ	637 - 2RS	465.6	202.3
13	12	2.5	3.5	0.15	MR128	MR128ZZS	MR128 - 2RS	55.4	28.0
	14	3.5	4	0.2	MR148	MR148ZZ	MR148 - 2RS	83.4	39.4
	16	4	5	0.2	688	688ZZ	688 - 2RS	127.8	60.4
14	19	6	6	0.3	698	698ZZ	698 - 2RS	228.3	93.6
	22	7	7	0.3	608	608ZZ	608 - 2RS	336.0	140.7
	24	8	8	0.3	628	628ZZ	628 - 2RS	340.1	145.2
15	28	9	9	0.3	638	638ZZ	638 - 2RS	465.6	202.3
	14	3	4.5	0.1	679	679ZZS	679 - 2RS	93.8	47.8
	17	4	5	0.2	689	689ZZ	689 - 2RS	135.4	68.2
16	20	6	6	0.3	699	699ZZ	699 - 2RS	251.7	110.3
	24	7	7	0.3	609	609ZZ	609 - 2RS	342.2	147.3
	26	8	8	0.3	629	629ZZ	629 - 2RS	466.8	202.3
17	30	10	10	0.6	639	639ZZ	639 - 2RS	475.4	212.2

◆ For Stainless Steel type, add SS in front of the part number. 欲订购不锈钢类型, 请在型号前加SS.

Plain Type Bearings

普通型轴承

◆ Standard Type / 标准型
Metric Series / 公制系列



◆ Dimensions 测量尺寸

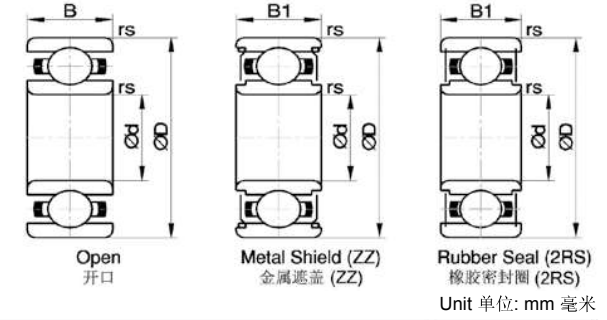
Boundary Dimensions 边界尺寸					Bearing Number 轴承号码			Basic Load Rating 基本负载等级	
d	D	B	B ₁	rs	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	C (kgf)	Cor (kgf)
10	15	3	4	0.2	6700	6700ZZ	6700 - 2RS	87.2	44.4
	19	5	5	0.3	6800	6800ZZ	6800 - 2RS	175.1	85.7
	22	6	6	0.3	6900	6900ZZ	6900 - 2RS	275.0	129.9
	26	8	8	0.3	6000	6000ZZ	6000 - 2RS	455.0	197.0
	30	9	9	0.6	6200	6200ZZ	6200 - 2RS	510.0	239.0
	35	11	11	0.6	6300	6300ZZ	6300 - 2RS	806.0	375.0
12	18	4	4	0.2	6701	6701ZZ	6700 - 2RS	94.5	54.1
	21	5	5	0.3	6801	6801ZZ	6801 - 2RS	195.4	106.2
	24	6	6	0.3	6901	6901ZZ	6901 - 2RS	294.5	149.6
	28	8	8	0.3	6001	6001ZZ	6001 - 2RS	510.0	237.0
	28	7	7	0.3	16001	16001ZZ	16001 - 2RS	510.0	237.0
	32	10	10	0.6	6201	6201ZZ	6201 - 2RS	680.0	305.0
	37	12	12	1.0	6301	6301ZZ	6301 - 2RS	975.0	465.0
	42	13	13	1.0	6302	6302ZZ	6302 - 2RS	1,140.0	540.0
15	21	4	4	0.2	6702	6702ZZ	6702 - 2RS	95.6	59.4
	24	5	5	0.3	6802	6802ZZ	6802 - 2RS	211.5	127.9
	28	7	7	0.3	6902	6902ZZ	6902 - 2RS	440.9	230.5
	32	9	9	0.3	6002	6002ZZ	6002 - 2RS	560.0	283.0
	32	8	8	0.3	16002	16002ZZ	16002 - 2RS	560.0	283.0
	35	11	11	0.6	6202	6202ZZ	6202 - 2RS	765.0	375.0
	42	13	13	1.0	6302	6302ZZ	6302 - 2RS	1,140.0	540.0
	47	14	14	1.0	6303	6303ZZ	6303 - 2RS	1,385.1	679.5
17	23	4	4	0.2	6703	6703ZZ	6703 - 2RS	102.0	67.1
	26	5	5	0.3	6803	6803ZZ	6803 - 2RS	227.9	148.6
	30	7	7	0.3	6903	6903ZZ	6903 - 2RS	468.2	261.7
	35	10	10	0.3	6003	6003ZZ	6003 - 2RS	600.0	325.0
	35	8	8	0.3	16003	16003ZZ	16003 - 2RS	600.0	325.0
	40	12	12	0.6	6203	6203ZZ	6203 - 2RS	955.0	480.0

◆ For Stainless Steel type, add SS in front of the part number.
欲订购不锈钢类型, 请在型号前加SS.

Plain Type Bearings

普通型轴承

◆ Standard Type / 标准型
Metric Series / 公制系列



◆ Dimensions 测量尺寸

Boundary Dimensions 边界尺寸					Bearing Number 轴承号码			Basic Load Rating 基本负载等级	
d	D	B	B ₁	rs	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	C _r (kgf)	Cor (kgf)
20	27	4	4	0.2	6704	6704ZZ	6704 - 2RS	143.0	74.3
	32	7	7	0.3	6804	6804ZZ	6804 - 2RS	409.4	251.1
	37	9	9	0.3	6904	6904ZZ	6904 - 2RS	650.7	375.5
	42	12	12	0.6	6004	6004ZZ	6004 - 2RS	955.4	516.7
	47	14	14	1.0	6204	6204ZZ	6204 - 2RS	1,309.1	683.5
	52	15	15	1.1	6304	6304ZZ	6304 - 2RS	1,617.9	804.5
25	32	4	4	0.2	6705	6705ZZ	6705 - 2RS	111.3	85.5
	37	7	7	0.3	6805	6805ZZ	6805 - 2RS	438.8	299.0
	42	9	9	0.3	6905	6905ZZ	6905 - 2RS	713.9	463.0
	47	12	12	0.6	6005	6005ZZ	6005 - 2RS	1,025.3	597.6
	52	15	15	1.0	6205	6205ZZ	6205 - 2RS	1,428.0	803.4
	62	17	17	1.1	6305	6305ZZ	6305 - 2RS	2,098.6	1,155.2
30	37	4	4	0.2	6706	6706ZZ	6706 - 2RS	116.6	96.6
	42	7	7	0.3	6806	6806ZZ	6806 - 2RS	462.7	346.9
	47	9	9	0.3	6906	6906ZZ	6906 - 2RS	738.5	510.2
	55	13	13	1.0	6006	6006ZZ	6006 - 2RS	1,348.1	842.4
	62	16	16	1.0	6206	6206ZZ	6206 - 2RS	1,982.6	1,157.2
	72	19	19	1.1	6306	6306ZZ	6306 - 2RS	2,715.2	1,540.0
35	44	5	5	0.3	6707	6707ZZ	6707 - 2RS	190.3	166.7
	47	7	7	0.3	6807	6807ZZ	6807 - 2RS	482.2	389.6
	55	10	10	0.6	6907	6907ZZ	6907 - 2RS	1,111.5	797.2
	62	14	14	1.0	6007	6007ZZ	6007 - 2RS	1,626.9	1,051.3
	72	17	17	1.1	6207	6207ZZ	6207 - 2RS	2,616.2	1,575.0
	80	18	18	1.1	6208	6208ZZ	6208 - 2RS	2,967.0	1,826.7
40	50	6	6	0.3	6708	6708ZZ	6708 - 2RS	256.6	227.7
	52	7	7	0.3	6808	6808ZZ	6808 - 2RS	502.0	426.0
	62	12	12	0.6	6908	6908ZZ	6908 - 2RS	1,394.8	1,016.5
	68	15	15	1.0	6008	6008ZZ	6008 - 2RS	1,709.9	1,175.2
	80	18	18	1.1	6208	6208ZZ	6208 - 2RS	2,967.0	1,826.7
	80	18	18	1.1	6208	6208ZZ	6208 - 2RS	2,967.0	1,826.7
45	55	6	6	0.3	6709	6709ZZ	6709 - 2RS	263.1	244.4
	58	7	7	0.3	6809	6809ZZ	6809 - 2RS	630.9	548.7
	68	12	12	0.6	6909	6909ZZ	6909 - 2RS	1,437.8	1,028.2
	75	16	16	1.0	6009	6009ZZ	6009 - 2RS	1,817.8	1,231.2

◆ For Stainless Steel type, add SS in front of the part number.
欲订购不锈钢类型, 请在型号前加SS.

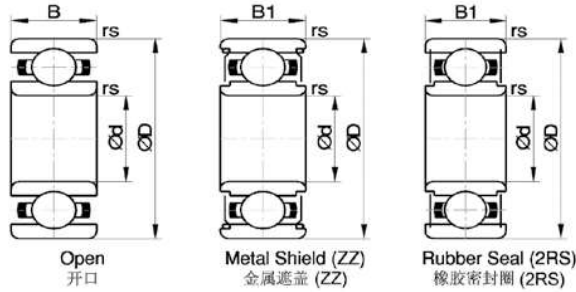
Bearings
轴承

Bearings
轴承

Plain Type Bearings

普通型轴承

◆ Standard Type / 标准型 Inch Series / 英制系列



◆ Dimensions 测量尺寸

Unit 单位: inch 英寸 / mm 毫米

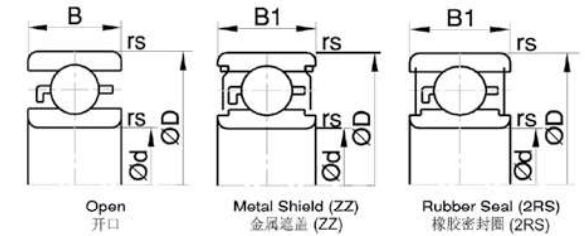
Boundary Dimensions 边界尺寸										Bearing Number 轴承号码			Basic Load Rating 基本负载等级	
d		D		B		B1		rs		Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	Cr (kgf)	Cor (kgf)
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm					
0.0400	1.016	0.1250	3.175	0.0469	1.191	-	-	0.0039	0.1	R09	-	-	10.8	2.9
0.0469	1.191	0.1562	3.967	0.0625	1.588	0.0937	2.380	0.0039	0.1	R0	R0ZZ	-	11.4	3.4
0.0550	1.397	0.1875	4.762	0.0781	1.984	0.1094	2.779	0.0039	0.1	R1	R1ZZ	-	23.7	6.8
0.0781	1.984	0.2500	6.350	0.0937	2.380	0.1406	3.571	0.0039	0.1	R1 - 4	R1 - 4ZZS	R1 - 4 - 2RS	29	9.8
0.0937	2.380	0.1875	4.762	0.0625	1.588	0.1406	3.571	0.0039	0.1	R133	-	-	19.3	6.1
		0.1875	4.762	-	-	0.0937	2.380	0.0039	0.1	-	R133ZZS	R133 - 2RS	14.7	5.4
		0.3125	7.938	0.1094	2.779	0.1406	3.571	0.0059	0.2	R1 - 5	R1 - 5ZZS	R1 - 5 - 2RS	56.3	17.9
0.1250	3.175	0.2500	6.350	0.0937	2.380	0.1094	2.779	0.0039	0.1	R144	R144ZZS	R144 - 2RS	29	9.8
		0.3125	7.938	0.1094	2.779	0.1406	3.571	0.0039	0.1	R2 - 5	R2 - 5ZZ	R2 - 5 - 2RS	56.9	18.4
		0.3750	9.525	0.1094	2.779	0.1406	3.571	0.0059	0.2	R2 - 6	R2 - 6ZZ	R2 - 6 - 2RS	65.3	23.1
		0.3750	9.525	0.1562	3.967	0.1562	3.967	0.0018	0.3	R2	R2ZZ	R2 - 2RS	64.3	22.3
		0.5000	12.700	0.1719	4.366	0.1719	4.366	0.0018	0.3	R2A	R2AZZ	R2A - 2RS	65.3	23.1
0.1562	3.967	0.3125	7.938	0.1094	2.779	0.1250	3.175	0.0039	0.1	R155	R155ZZS	R155 - 2RS	36.6	15.3
0.1875	4.762	0.3125	7.938	0.1094	2.779	0.1250	3.175	0.0039	0.1	R156	R156ZZS	R156 - 2RS	36.6	15.3
		0.3750	9.525	0.1250	3.175	0.1250	3.175	0.0039	0.1	R166	R166ZZ	R166 - 2RS	72.3	27.7
		0.5000	12.700	0.1562	3.967	0.1960	4.978	0.0018	0.3	R3	R3ZZ	R3 - 2RS	132.7	49.8
		0.6250	15.875	0.1960	4.978	0.1960	4.978	0.0018	0.3	R3A	R3AZZ	R3A - 2RS	150.9	63.3
0.2500	6.350	0.3750	9.525	0.1250	3.175	0.1250	3.175	0.0039	0.1	R168	R168ZZS	R168 - 2RS	38	17.5
		0.5000	12.700	0.1250	3.175	0.1875	4.762	0.0059	0.2	R188	R188ZZ	R188 - 2RS	110.3	45.1
		0.6250	15.875	0.1960	4.978	0.1960	4.978	0.0018	0.3	R4	R4ZZ	R4 - 2RS	150.9	63.3
		0.7500	19.050	0.2188	5.558	0.2812	7.142	0.0157	0.4	R4A	R4AZZ	R4A - 2RS	238.2	91.4
0.3125	7.938	0.5000	12.700	0.1562	3.967	0.1562	3.967	0.0059	0.2	R1810	R1810ZZS	R1810 - 2RS	55.3	28.1
0.3750	9.525	0.6250	15.875	0.1562	3.967	0.1562	3.967	0.0098	0.25	R1038	R1038ZZ	R1038 - 2RS	43	20
		0.8750	22.225	0.2188	5.558	0.2812	7.142	0.0157	0.4	R6	R6ZZ	R6 - 2RS	339.8	145
0.5000	12.700	0.7500	19.050	0.1562	3.967	0.1562	3.967	0.0098	0.25	R1212	R1212ZZ	R1212 - 2RS	50	27.5
		1.1250	28.575	0.2500	6.350	0.3125	7.938	0.0157	0.4	R8	R8ZZ	R8 - 2RS	520.9	246
0.6250	15.875	1.3750	34.925	0.3125	7.938	0.4375	11.113	0.0315	0.8	R10	R10ZZ	R10 - 2RS	610.6	335.2

◆ For Stainless Steel type, add SS in front of the part number.
欲订购不锈钢类型, 请在型号前加SS.

Extra Thin Bearings

超薄型轴承

◆ ET Metric Series / 公制系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

Boundary Dimensions 边界尺寸					Bearing Number 轴承号码			Basic Load Rating 基本负载等级	
d	D	B	B1	rs	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	Cr (kgf)	Cor (kgf)
10	15	3.0	4	0.15	ET1510	ET1510ZZS	-	97.7	52.4
15	20	3.5	-	0.15	ET2015	-	-	96.1	59.3
	21	3.5	-	0.15	ET2115	-	-	95.8	59.2
16	22	4.0	-	0.15	ET2216	-	-	98.7	63.1
	23	4.5	4.5	0.15	ET2316	ET2316ZZS	-	98.7	63.1
18	24	4.0	-	0.15	ET2418	-	-	100.7	66.7
20	25	4.0	4	0.15	ET2520	ET2520ZZS	-	103.1	70.5

◆ For Stainless Steel type, add SS in front of the part number.
欲订购不锈钢类型, 请在型号前加SS.

◆ ER Inch Series / 英制系列

◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

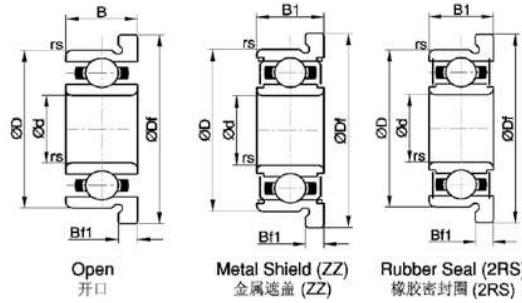
Boundary Dimensions 边界尺寸										Bearing Number 轴承号码			Basic Load Rating 基本负载等级			
d		D		B		B1		rs		Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	Cr (kgf)	Cor (kgf)		
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm							
0.3750	9.525	0.6250	15.875	0.1562	3.968	0.1562	3.968	0.0098	0.25	ER1038	ER1038ZZS	-	87.3	44.4		
		0.7500	19.050	0.1960	4.978	0.1960	4.978	0.0098	0.25	ER1238	ER1238ZZ	ER1238 - 2RS	175	85.7		
		0.5000	12.700	0.7500	19.050	0.1562	3.968	0.1562	3.968	0.0980	0.25	ER1212	ER1212ZZS	-	93.6	55.3
				0.8750	22.225	0.1960	4.978	0.1960	4.978	0.0980	0.25	ER1412	ER1412ZZ	ER1412 - 2RS	195.3	106.1
0.6250	15.875	0.8750	22.225	0.1562	3.968	0.1562	3.968	0.0980	0.25	ER1458	ER1458ZZS	-	98.7	63.1		
		1.0000	25.400	0.1960	4.978	0.1960	4.978	0.0980	0.25	ER1658	ER1658ZZ	ER1658 - 2RS	227.7	148.5		
0.7500	19.050	1.0000	25.400	0.1562	3.968	0.1562	3.968	0.0980	0.25	ER1634	ER1634ZZS	-	103.1	70.5		
		1.1248	28.571	0.2812	7.142	0.2812	7.142	0.0980	0.25	ER1834	ER1834ZZS	-	106.3	74.3		

◆ For Stainless Steel type, add SS in front of the part number.
欲订购不锈钢类型, 请在型号前加SS.

Flange Bearings

法兰型轴承

◆ **Miniature Type / 微型**
Metric Series / 公制系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

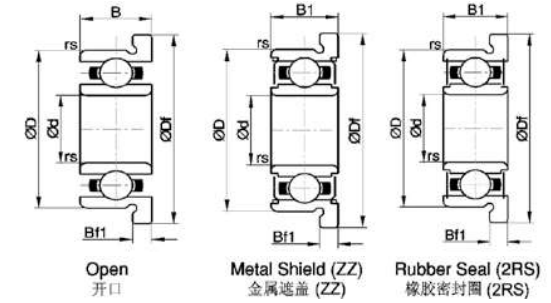
Boundary Dimensions 边界尺寸								Bearing Number 轴承号码			Basic Load Rating 基本负载等级		
d	D	B	B1	rs	Df	Bf	Bf1	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	Cr (kgf)	Cor (kgf)	
1	3	1.0	-	0.05	3.8	0.3	-	F681	-	-	9.8	2.7	
	4	1.6	-	0.10	5	0.5	-	F691	-	-	14.4	3.8	
1.2	4	1.8	-	0.10	4.8	0.4	-	MF41X	-	-	11.4	3.4	
1.5	4	1.2	2.0	0.05	5	0.4	0.6	F681X	F681XZZ	F681X - 2RS	11.4	3.4	
	5	2.0	2.6	0.15	6.5	0.6	0.8	F691X	F691XZZ	F691X - 2RS	17.2	5.1	
	6	2.5	3.0	0.15	7.5	0.6	0.8	F601X	F601XZZ	F601X - 2RS	33.7	10.1	
2	5	1.5	2.3	0.08	6.1	0.5	0.6	F682	F682ZZ	F682 - 2RS	17.2	5.1	
	5	2.0	2.5	0.10	6.2	0.6	0.6	MF52	MF52ZZ	MF52 - 2RS	17.2	5.1	
	6	2.3	3.0	0.15	7.5	0.6	0.8	F692	F692ZZ	F692 - 2RS	33.7	10.1	
	6	2.5	-	0.15	7.2	0.6	-	MF62	-	-	33.7	10.1	
	7	2.5	3.0	0.15	8.2	0.6	0.6	MF72	MF72ZZ	MF72 - 2RS	39.4	13.2	
	7	2.8	3.5	0.15	8.5	0.7	0.9	F602	F602ZZ	F602 - 2RS	39.4	13.2	
	8	2.5	-	0.20	9.2	0.6	-	MF82X	-	-	56.9	18.4	
2.5	6	1.8	2.6	0.08	7.1	0.5	0.8	F682X	F682XZZ	F682X - 2RS	21.3	7.6	
	7	2.5	3.5	0.15	8.5	0.7	0.9	F692X	F692XZZ	F692X - 2RS	39.4	13.2	
	8	2.5	-	0.20	9.2	0.6	-	MF82X	-	-	56.9	18.4	
	8	2.8	4.0	0.15	9.5	0.7	0.9	F602X	F602XZZ	F602X - 2RS	56.3	18.1	
3	6	2.0	2.5	0.10	7.2	0.6	0.6	MF63	MF63ZZ	MF63 - 2RS	21.3	7.6	
	7	2.0	3.0	0.10	8.1	0.5	0.8	F683	F683ZZ	F683 - 2RS	31.7	11.4	
	8	2.5	3.0	0.15	9.2	0.6	-	MF83	-	-	40.3	14.4	
	8	3.0	4.0	0.15	9.5	0.7	0.9	F693	F693ZZ	F693 - 2RS	56.9	18.4	
	9	2.5	4.0	0.20	10.2	0.6	0.8	MF93	MF93ZZ	MF93 - 2RS	58.3	19.3	
	9	3.0	5.0	0.15	10.5	0.7	1.0	F603	F603ZZ	F603 - 2RS	58.3	19.3	
	10	4.0	4.0	0.15	11.5	1.0	1.0	F623	F623ZZ	F623 - 2RS	64.4	22.3	
	13	5.0	5.0	0.20	-	-	-	F633	-	-	-	-	
	4	7	2.0	-	0.10	8.2	0.6	-	MF74	-	-	31.7	11.7
		7	-	2.5	0.10	8.2	-	0.6	-	MF74ZZS	MF74 - 2RS	26.0	11.0
8		2.0	3.0	0.15	9.2	0.6	0.6	MF84	MF84ZZ	MF84 - 2RS	40.3	14.4	
9		2.5	4.0	0.10	10.3	0.6	1.0	F684	F684ZZ	F684 - 2RS	65.4	23.2	
10		3.0	4.0	0.20	11.2	0.6	0.8	MF104	MF104ZZ	MF104 - 2RS	72.6	27.8	
11		4.0	4.0	0.15	12.5	1.0	1.0	F694	F694ZZ	F694 - 2RS	97.7	35.7	
12		4.0	4.0	0.20	13.5	1.0	1.0	F604	F604ZZ	F604 - 2RS	97.7	35.7	
13		5.0	5.0	0.20	15	1.0	1.0	F624	F624ZZ	F624 - 2RS	132.8	49.8	
16		5.0	5.0	0.30	18	1.0	1.0	F634	F634ZZ	F634 - 2RS	136.7	53.4	

◆ For Stainless Steel type, add SS in front of the part number.
欲订购不锈钢类型, 请在型号前加SS.

Flange Bearings

法兰型轴承

◆ **Miniature Type / 微型**
Metric Series / 公制系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

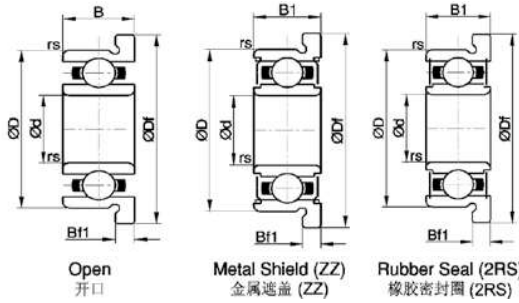
Boundary Dimensions 边界尺寸								Bearing Number 轴承号码			Basic Load Rating 基本负载等级	
d	D	B	B1	rs	Df	Bf	Bf1	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	Cr (kgf)	Cor (kgf)
5	8	2.0	-	0.10	9.2	0.6	-	MF85	-	-	31.4	12.2
	8	-	2.5	0.10	9.2	-	0.6	-	MF85ZZS	MF85 - 2RS	22.2	9.2
	9	2.5	3.0	0.15	10.2	0.6	0.6	MF95	MF95ZZS	MF95 - 2RS	44.0	17.2
	10	3.0	4.0	0.15	11.2	0.6	0.8	MF105	MF105ZZ	MF105 - 2RS	44.0	17.2
	11	-	4.0	0.15	12.6	-	0.8	-	MF115ZZ	MF115 - 2RS	73.1	28.8
6	11	3.0	5.0	0.15	12.5	0.8	1.0	F685	F685ZZ	F685 - 2RS	73.1	28.8
	13	4.0	4.0	0.20	15	1.0	1.0	F695	F695ZZ	F695 - 2RS	109.9	44.1
	14	5.0	5.0	0.20	16	1.0	1.0	F605	F605ZZ	F605 - 2RS	135.6	51.7
	16	5.0	5.0	0.30	18	1.0	1.0	F625	F625ZZ	F625 - 2RS	176.4	68.9
	19	6.0	6.0	0.30	22	1.5	1.5	F635	F635ZZ	F635 - 2RS	238.4	91.4
	10	2.5	3.0	0.15	11.2	0.6	0.6	MF106	MF106ZZS	MF106 - 2RS	50.6	22.2
	12	3.0	4.0	0.20	13.2	0.6	0.8	MF126	MF126ZZ	MF126 - 2RS	72.9	30.1
	13	3.5	5.0	0.15	15	1.0	1.1	F686	F686ZZ	F686 - 2RS	110.4	45.1
	15	5.0	5.0	0.20	17	1.2	1.2	F696	F696ZZ	F696 - 2RS	136.7	53.4
	17	6.0	6.0	0.30	19	1.2	1.2	F606	F606ZZ	F606 - 2RS	230.9	86.3
7	19	6.0	6.0	0.30	22	1.5	1.5	F626	F626ZZ	F626 - 2RS	238.4	91.4
	11	2.5	3.0	0.15	12.2	0.6	0.6	MF117	MF117ZZS	MF117 - 2RS	46.4	20.6
	13	3.0	4.0	0.20	14.2	0.6	0.8	MF137	MF137ZZ	MF137 - 2RS	55.2	28.1
	14	3.5	5.0	0.15	16	1.0	1.1	F687	F687ZZ	F687 - 2RS	119.6	52.3
	17	5.0	5.0	0.30	19	1.2	1.2	F697	F697ZZ	F697 - 2RS	163.7	73.3
8	19	6.0	6.0	0.30	22	1.5	1.5	F607	F607ZZ	F607 - 2RS	238.2	91.4
	22	7.0	7.0	0.30	25	1.5	1.5	F627	F627ZZ	F627 - 2RS	335.2	140.6
	12	2.5	3.5	0.15	13.2	0.6	0.8	MF128	MF128ZZS	MF128 - 2RS	55.4	27.9
	14	3.5	4.0	0.20	15.6	0.8	0.8	MF148	MF148ZZ	MF148 - 2RS	83.3	39.4
	16	4.0	5.0	0.20	18	1.0	1.1	F688	F688ZZ	F688 - 2RS	127.7	60.4
	19	6.0	6.0	0.30	22	1.5	1.5	F698	F698ZZ	F698 - 2RS	228.1	93.5
	22	7.0	7.0	0.30	25	1.5	1.5	F608	F608ZZ	F608 - 2RS	335.8	140.6
	14	3.0	4.5	0.10	15.5	0.8	0.8	F679	F679ZZ	F679 - 2RS	93.7	47.7
	17	4.0	5.0	0.20	19	1.0	1.1	F689	F689ZZ	F689 - 2RS	135.3	68.1
	20	6.0	6.0	0.30	23	1.5	1.5	F699	F699ZZ	F699 - 2RS	251.6	110.2
9	24	7.0	7.0	0.30	27	1.5	1.5	F609	F609ZZ	F609 - 2RS	342.2	147.2

◆ For Stainless Steel type, add SS in front of the part number.
欲订购不锈钢类型, 请在型号前加SS.

Flange Bearings

法兰型轴承

◆ **Standard Type / 标准型**
Metric Series / 公制系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

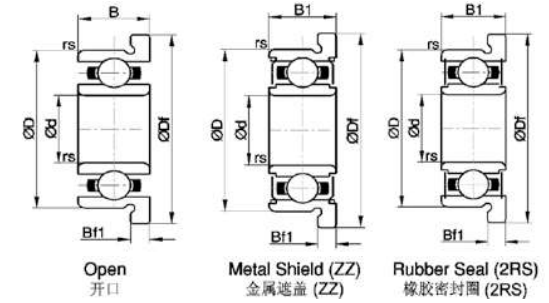
d	Boundary Dimensions 边界尺寸							Bearing Number 轴承号码			Basic Load Rating 基本负载等级		
	D	B	B1	rs	Df	Bf	Bf1	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	Cr (kgf)	Cor (kgf)	
10	15	3.0	-	0.15	16.5	0.8	0.8	F6700	-	-	87.2	44.4	
	15	-	4.0	0.15	16.5	0.8	0.8	-	F6700ZZS	F6700 - 2RS	87.2	44.4	
	19	5.0	0.30	0.30	21	1.0	1.0	F6800	F6800ZZ	F6800 - 2RS	175.0	85.7	
	19	7.0	0.30	0.30	21	1.5	1.5	F63800	F63800ZZ	F63800 - 2RS	175.0	85.7	
	19	4.0	0.30	0.15	21	1.0	1.0	F6800W	F6800WZZ	F6800W - 2RS	87.2	44.4	
	22	6.0	0.30	0.30	25	1.5	1.5	F6900	F6900ZZ	F6900 - 2RS	274.8	129.8	
	22	5.0	0.30	0.30	25	1.5	1.5	F6900W	F6900WZZ	F6900W - 2RS	175.0	85.7	
	12	18	4.0	0.20	0.20	19.5	0.8	0.8	F6701	F6701ZZ	F6701 - 2RS	94.4	54.0
21		5.0	0.30	0.30	23	1.1	1.1	F6801	F6801ZZ	F6801 - 2RS	195.3	106.2	
21		7.0	0.30	0.30	23	1.5	1.5	F63801	F63801ZZ	F63801 - 2RS	195.3	106.2	
21		4.0	0.30	0.30	23	1.1	1.1	F6801W	F6801WZZ	F6801W - 2RS	94.4	54.0	
24		6.0	0.30	0.30	26.5	1.5	1.5	F6901	F6901ZZ	F6901 - 2RS	294.3	149.5	
24		5.0	0.30	0.30	26.5	1.5	1.5	F6901W	F6901WZZ	F6901W - 2RS	195.3	106.2	
15		21	4.0	0.20	0.20	22.5	0.8	0.8	F6702	F6702ZZ	F6702 - 2RS	95.5	59.3
		24	5.0	0.30	0.30	26	1.1	1.1	F6802	F6802ZZ	F6802 - 2RS	211.4	127.8
	24	7.0	0.30	0.30	26	1.5	1.5	F63802	F63802ZZ	F63802 - 2RS	211.4	127.8	
	24	4.0	0.20	0.20	26	1.1	1.1	F6802W	F6802WZZ	F6802W - 2RS	95.5	59.3	
	28	7.0	0.30	0.30	30.5	1.5	1.5	F6902	F6902ZZ	F6902 - 2RS	440.6	230.4	
	28	5.0	0.30	0.30	30.5	1.5	1.5	F6902W	F6902WZZ	F6902W - 2RS	211.4	127.8	
	17	23	4.0	0.20	0.20	24.5	0.8	0.8	F6703	F6703ZZ	F6703 - 2RS	102.0	67.1
		26	5.0	0.30	0.30	28	1.1	1.1	F6803	F6803ZZ	F6803 - 2RS	227.7	148.5
26		7.0	0.30	0.30	28	1.5	1.5	F63803	F63803ZZ	F63803 - 2RS	227.7	148.5	
26		4.0	0.20	0.20	28	1.1	1.1	F6803W	F6803WZZ	F6803W - 2RS	102.0	67.1	
30		7.0	0.30	0.30	32.5	1.5	1.5	F6903	F6903ZZ	F6903 - 2RS	467.8	261.6	
30		5.0	0.30	0.30	32.5	1.5	1.5	F6903W	F6903WZZ	F6903W - 2RS	227.7	148.5	

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欲订购不锈钢类型, 请在型号前加SS。

Flange Bearings

法兰型轴承

◆ **Standard Type / 标准型**
Metric Series / 公制系列



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

d	Boundary Dimensions 边界尺寸							Bearing Number 轴承号码			Basic Load Rating 基本负载等级		
	D	B	B1	rs	Df	Bf	Bf1	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	Cr (kgf)	Cor (kgf)	
20	27	4.0	0.20	0.20	28.5	0.8	0.8	F6704	F6704ZZ	F6704 - 2RS	143.0	74.3	
	32	7.0	0.30	0.30	35	1.5	1.5	F6804	F6804ZZ	F6804 - 2RS	409.4	251.1	
	32	10.0	0.30	0.30	35	2.0	2.0	F63804	F63804ZZ	F63804 - 2RS	409.4	251.1	
	32	4.0	0.30	0.30	35	1.5	1.5	F6804W	F6804WZZ	F6804W - 2RS	143.0	74.3	
	37	9.0	0.30	0.30	40	2.0	2.0	F6904	F6904ZZ	F6904 - 2RS	650.7	375.5	
	37	7.0	0.30	0.30	40	2.0	2.0	F6904W	F6904WZZ	F6904W - 2RS	409.4	251.1	
	25	32	4.0	0.20	0.20	34	1.0	1.0	F6705	F6705ZZ	F6705 - 2RS	111.3	85.5
		37	7.0	0.30	0.30	40	1.5	1.5	F6805	F6805ZZ	F6805 - 2RS	438.8	299.0
37		10.0	0.30	0.30	40	2.0	2.0	F63805	F63805ZZ	F63805 - 2RS	438.8	299.0	
37		4.0	0.30	0.30	40	1.5	1.5	F6805W	F6805WZZ	F6805W - 2RS	111.3	85.5	
42		9.0	0.30	0.30	45	2.0	2.0	F6905	F6905ZZ	F6905 - 2RS	713.9	463.0	
42		7.0	0.30	0.30	45	2.0	2.0	F6905W	F6905WZZ	F6905W - 2RS	438.8	299.0	
30		37	4.0	0.20	0.20	39	1.0	1.0	F6706	F6706ZZ	F6706 - 2RS	116.6	96.6
		42	7.0	0.30	0.30	45	1.5	1.5	F6806	F6806ZZ	F6806 - 2RS	462.7	346.9
	42	10.0	0.30	0.30	45	2.0	2.0	F63806	F63806ZZ	F63806 - 2RS	462.7	346.9	
	42	4.0	0.30	0.30	45	1.5	1.5	F6806W	F6806WZZ	F6806W - 2RS	116.6	96.6	
	47	9.0	0.30	0.30	50	2.0	2.0	F6906	F6906ZZ	F6906 - 2RS	738.5	510.2	
	47	7.0	0.30	0.30	50	2.0	2.0	F6906W	F6906WZZ	F6906W - 2RS	462.7	346.9	
	35	47	7.0	0.30	0.30	50	1.5	1.5	F6807	F6807ZZ	F6807 - 2RS	482.2	389.6
		55	10.0	0.60	0.60	58	2.5	2.5	F6907	F6907ZZ	F6907 - 2RS	1,111.5	797.2
40		52	7.0	0.30	55	1.5	1.5	F6808	F6808ZZ	F6808 - 2RS	502.0	426.0	
40	62	12.0	0.60	0.60	65	2.5	2.5	F6908	F6908ZZ	F6908 - 2RS	1,394.8	1,016.5	
	45	58	7.0	0.30	61	1.5	1.5	F6809	F6809ZZ	F6809 - 2RS	630.9	548.7	
68		12.0	0.60	0.60	71	2.5	2.5	F6909	F6909ZZ	F6909 - 2RS	1,437.8	1,104.4	

◆ For Stainless Steel type, add SS in front of the part number.
欲订购不锈钢类型, 请在型号前加SS。

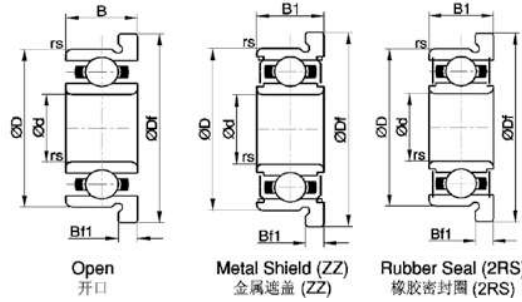
Bearings 轴承

Bearings 轴承

Flange Bearings

法兰型轴承

◆ Inch Series / 英制系列
Metric Dimensions / 公制尺寸



◆ Dimensions 测量尺寸

Unit 单位: mm 毫米

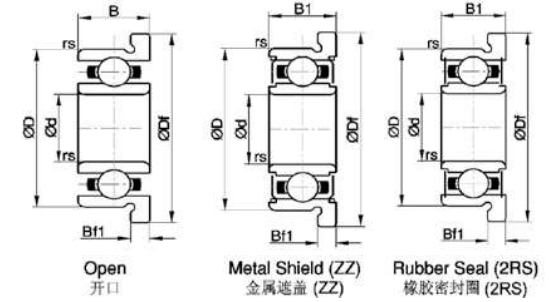
Boundary Dimensions 边界尺寸							Bearing Number 轴承号码			Basic Load Rating 基本负载等级		
d	D	B	B1	rs	Df	Bf	Bf1	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	Cr (kgf)	Cor (kgf)
1.191	3.967	1.588	2.380	0.10	5.516	0.330	0.787	FR0	FR0ZZ	FR0 - 2RS	11.4	3.7
1.397	4.762	1.984	2.779	0.10	5.944	0.584	0.787	FR1	FR1ZZ	FR1 - 2RS	23.7	6.8
1.984	6.350	2.380	3.571	0.10	7.518	0.584	0.787	FR1 - 4	FR1 - 4ZZS	FR1 - 4 - 2RS	29.0	9.8
2.380	4.762	1.588	-	0.10	5.944	0.457	-	FR133	-	-	19.3	6.1
	4.762	-	2.380	0.10	5.944	-	0.787	-	FR133ZZS	FR133 - 2RS	14.7	5.4
7.938	2.779	3.571	0.15	9.119	0.584	0.787	FR1 - 5	FR1 - 5ZZS	FR1 - 5 - 2RS	56.3	17.9	
	7.938	2.779	3.571	0.10	9.119	0.584	0.787	FR144J	FR144JZZS	FR144J - 2RS	31.7	11.2
3.175	6.350	2.380	2.779	0.10	7.518	0.584	0.787	FR144	FR144ZZS	FR144 - 2RS	29.0	9.8
	7.938	2.779	3.571	0.10	9.119	0.584	0.787	FR2 - 5	FR2 - 5ZZ	FR2 - 5 - 2RS	56.9	18.4
9.525	2.779	3.571	0.15	10.719	0.584	0.787	FR2 - 6	FR2 - 6ZZ	FR2 - 6 - 2RS	65.3	23.1	
	9.525	3.967	3.967	0.30	11.176	0.762	0.762	FR2	FR2ZZ	FR2 - 2RS	64.3	22.3
12.70	4.366	4.366	0.30	-	-	-	FR2A	FR2AZZ	FR2A - 2RS	64.0	22.7	
	3.967	7.938	2.779	3.175	0.10	9.119	0.584	0.914	FR155	FR155ZZS	FR155 - 2RS	36.6
4.762	7.938	2.779	3.175	0.10	9.119	0.584	0.914	FR156	FR156ZZS	FR156 - 2RS	36.6	15.3
	9.525	3.175	3.175	0.10	10.719	0.584	0.787	FR166	FR166ZZ	FR166 - 2RS	72.3	27.7
12.70	3.967	4.978	0.30	14.351	1.067	1.067	FR3	FR3ZZ	FR3 - 2RS	132.7	49.8	
	15.88	4.978	4.978	0.30	-	-	-	FR3A	FR3AZZ	FR3A - 2RS	148.0	62.1
6.350	9.525	3.175	3.175	0.10	10.719	0.584	0.914	FR168	FR168ZZS	FR168 - 2RS	38.0	17.5
	12.70	3.175	4.762	0.15	13.894	0.584	1.143	FR188	FR188ZZ	FR188 - 2RS	110.3	45.1
15.88	4.978	4.978	0.30	17.526	1.067	1.067	FR4	FR4ZZ	FR4 - 2RS	150.9	63.3	
	19.05	5.558	7.142	0.40	-	-	-	FR4A	FR4AZZ	FR4A - 2RS	233.6	89.6
7.938	12.70	3.967	3.967	0.15	13.894	0.787	0.787	FR1810	FR1810ZZS	FR1810 - 2RS	55.3	28.1
9.525	22.23	5.558	7.142	0.40	24.623	1.575	1.575	FR6	FR6ZZ	FR6 - 2RS	339.8	145.0
12.70	28.58	6.350	7.938	0.40	31.120	1.575	1.575	FR8	FR8ZZ	FR8 - 2RS	520.9	246.1
15.88	34.93	7.142	8.733	0.80	-	-	-	-	FR10ZZ	FR10 - 2RS	598.8	328.7

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欲订购不锈钢类型, 请在型号前加SS.

Flange Bearings

法兰型轴承

◆ Inch Series / 英制系列
Inch Series / 英制尺寸



◆ Dimensions 测量尺寸

Unit 单位: inch 英寸

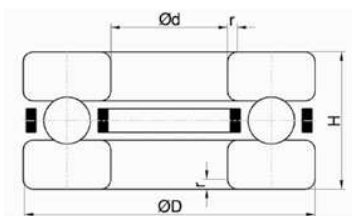
Boundary Dimensions 边界尺寸							Bearing Number 轴承号码			Basic Load Rating 基本负载等级		
d	D	B	B1	rs	Df	Bf	Bf1	Open 开口	Metal Shield (ZZ) 金属遮盖 (ZZ)	Rubber Seal (2RS) 橡胶密封圈 (2RS)	Cr (kgf)	Cor (kgf)
0.0469	0.1562	0.0625	0.0937	0.0039	0.2030	0.0130	0.0310	FR0	FR0ZZ	FR0 - 2RS	11.4	3.7
0.0550	0.1875	0.0781	0.1094	0.0039	0.2340	0.0230	0.0310	FR1	FR1ZZ	FR1 - 2RS	23.7	6.8
0.0781	0.2500	0.0937	0.1406	0.0039	0.2960	0.0230	0.0310	FR1 - 4	FR1 - 4ZZS	FR1 - 4 - 2RS	29.0	9.8
0.0937	0.1875	0.0625	-	0.0039	0.2340	0.0180	-	FR133	-	-	19.3	6.1
0.1250	0.1875	-	0.0937	0.0039	0.2340	-	0.0310	-	FR133ZZS	FR133 - 2RS	14.7	5.4
	0.3125	0.1094	0.1406	0.0039	0.3590	0.0230	0.0310	FR1 - 5	FR1 - 5ZZS	FR1 - 5 - 2RS	56.3	17.9
0.1250	0.2500	0.0937	0.1094	0.0039	0.2960	0.0230	0.0310	FR144J	FR144JZZS	FR144J - 2RS	31.7	11.2
	0.2500	0.0937	0.1094	0.0039	0.2960	0.0230	0.0310	FR144	FR144ZZS	FR144 - 2RS	29.0	9.8
0.1250	0.3125	0.1094	0.1406	0.0039	0.3590	0.0230	0.0310	FR2 - 5	FR2 - 5ZZ	FR2 - 5 - 2RS	56.9	18.4
	0.3750	0.1094	0.1406	0.1094	0.4220	0.0230	0.0310	FR2 - 6	FR2 - 6ZZ	FR2 - 6 - 2RS	65.3	23.1
0.1250	0.3750	0.1562	0.1562	0.0118	0.4400	0.0300	0.0300	FR2	FR2ZZ	FR2 - 2RS	64.3	22.3
	0.5000	0.1719	0.1719	0.0118	-	-	-	FR2A	FR2AZZ	FR2A - 2RS	64.0	22.7
0.1562	0.3125	0.1094	0.1250	0.0039	0.3590	0.0230	0.0360	FR155	FR155ZZS	FR155 - 2RS	36.6	15.3
0.1875	0.3125	0.1094	0.1250	0.0039	0.3590	0.0230	0.0360	FR156	FR156ZZS	FR156 - 2RS	36.6	15.3
	0.3750	0.1250	0.1250	0.0039	0.4220	0.0230	0.0310	FR166	FR166ZZ	FR166 - 2RS	72.3	27.7
0.1250	0.5000	0.1562	0.1960	0.0118	0.5650	0.0420	0.0420	FR3	FR3ZZ	FR3 - 2RS	132.7	49.8
	0.6252	0.1960	0.1960	0.0118	-	-	-	FR3A	FR3AZZ	FR3A - 2RS	148.0	62.1
0.2500	0.3750	0.1250	0.1250	0.0039	0.4220	0.0230	0.0360	FR168	FR168ZZS	FR168 - 2RS	38.0	17.5
	0.5000	0.1250	0.1875	0.0039	0.5470	0.0230	0.0450	FR188	FR188ZZ	FR188 - 2RS	110.3	45.1
0.2500	0.6252	0.1960	0.1960	0.0118	0.6900	0.0420	0.0420	FR4	FR4ZZ	FR4 - 2RS	150.9	63.3
	0.7500	0.2188	0.2812	0.0157	-	-	-	FR4A	FR4AZZ	FR4A - 2RS	233.6	89.6
0.3125	0.5000	0.1562	0.1562	0.0039	0.5470	0.0310	0.0130	FR1810	FR1810ZZS	FR1810 - 2RS	55.3	28.1
0.3750	0.8750	0.2188	0.2812	0.0157	0.9690	0.0620	0.0620	FR6	FR6ZZ	FR6 - 2RS	339.8	145.0
0.5000	1.1250	0.2500	0.3125	0.0157	1.2252	0.0620	0.0620	FR8	FR8ZZ	FR8 - 2RS	520.9	246.1
0.6252	1.3752	0.2812	0.3438	0.0315	-	-	-	-	FR10ZZ	FR10 - 2RS	598.8	328.7

◆ For Stainless Steel type, add SS in front of the part number.
欲订购不锈钢类型, 请在型号前加SS.

Thrust Bearings

止推轴承

- ◆ **FM**
Metric Series / 公制系列

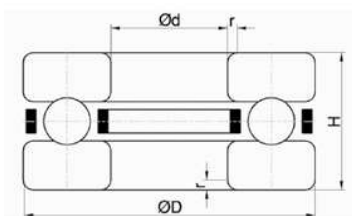


Unit 单位: mm

◆ Dimensions 测量尺寸

Bearing Number 轴承号码	d	D	r	H	Load Rating / 负载等级 (kgf)		Weight (Ref.) / 重量 (g)
					C	Co	
F3 - 8M	3	8	0.2	3.5	87	78	1.2
F4 - 9M	4	9	0.2	4.0	83	78	1.3
F4 - 10M	4	10	0.2	4.0	81	78	1.35
F5 - 12M	5	12	0.2	4.0	92	104	1.4
F6 - 14M	6	14	0.3	5.0	192	206	1.5
F7 - 13M	7	13	0.2	4.5	156	187	1.5
F7 - 17M	7	17	0.3	6.0	270	321	1.6
F8 - 16M	8	16	0.3	5.0	346	421	1.7
F8 - 19M	8	19	0.4	7.0	347	419	1.8
F9 - 20M	9	20	0.4	7.0	339	419	1.9
F10 - 18M	10	18	0.3	5.5	220	294	1.8

- ◆ **F**
Metric Series / 公制系列



Unit 单位: mm

◆ Dimensions 测量尺寸

Bearing Number 轴承号码	d	D	r	H	Load Rating / 负载等级 (kgf)		Weight (Ref.) / 重量 (g)
					C	Co	
F2 - 6	2	6	0.15	3.0	12	8.5	0.6
F2X - 7	3	7	0.15	3.5	16	12	0.9
F3 - 8	3	8	0.20	3.5	17	14	0.6
F4 - 9	4	9	0.20	4.0	17	16	1.5
F4 - 10	4	10	0.20	4.5	28	25	2.0
F5 - 11	5	11	0.20	4.5	29	29	2.4
F6 - 12	6	12	0.30	4.3	28	29	2.5
F7 - 15	7	15	0.30	5.0	57	56	4.4
F8 - 16	8	16	0.30	5.0	61	64	5.0
F9 - 17	9	17	0.30	5.0	59	64	5.1
F10 - 18	10	18	0.30	5.5	63	72	6.0

Rod End

杆端关节轴承



Definition & Usage

Generally, rod end bearings consist of a plain bearing that can accommodate a shaft or a rod with varying misalignment. They attach to a static rod via a male threaded stud or an internal female thread. The thread/stub may be built for left handing or right handing.

Rod end bearings are mainly used in the construction of control rod linkages, under the status of tensile and compressive loads transmitted through the control rods

Types & Prefixes

The choice for the size of rod end bearing is determined based on the load carried and the service life required or desired. The basic static load rating C_o and the basic dynamic load rating C are used for

定义与用途

一般来说，杆端关节轴承是由一个普通的并能调节多变未对准的杆或杆状体的轴承组成。它们通过一个外螺纹的螺柱或一个内螺纹来附上一个静力棒。螺纹/螺柱可被做成右手或左手操纵。

杆端关节轴承通常用于杆状体链结构，在拉力和压缩力负荷量的作用下，通过控制棒来传输。

类型和前缀

杆端关节轴承尺寸的选择是根据负荷量和被要求使用期限来决定的。基本的静负荷量 C_o 和基本的动负荷量 C 被用于计算使用期限。基本的静负荷量 C_o 可计算出一个固定杆端关节轴承所

life calculations. The basic static load rating Co is a measure of the strength of a stationary loaded rod end. It gives the maximum permissible load that the rod end body can accommodate without being distorted or broken. A measure of the strength of a rod end body when dynamically operated is determined by the basic dynamic load rating C.

能负荷的力。它提供在没有弯曲或破裂的情况下，杆端关节轴承表面可承担的最大允许负荷量。动负荷量C则是测量杆端关节轴承在动力操作过程中的力度。

The type, size and some design features are designated by an identification code comprising prefixes, numbers and suffixes.

类型、尺寸和一些设计特征被一个由前缀、号码和后缀组成的识别代码来标示。

Example of Identification Number 辨认型号示例

JF 10 R
① ② ③

- ① Type of Rod End
 JF.. : Female Thread
 JM.. : Male Thread
- ② Bore diameter of inner ring
- ③ Left/ Right-handed thread

- ① 杆端关节轴承
 JF.. : 内螺纹
 JM.. : 外螺纹
- ② 内环钻孔直径
- ③ 用左手或用右手螺纹

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JF & JM



▶ Page XX

- ◆ Steel-on-composite material / 合成钢材质
- ◆ Appropriate for directional change / 适合于改变方向
- ◆ Periodical relubrication required through grease nipples 需要通过油脂嘴进行周期性的润滑
- ◆ Available in Metric & Inch dimensions / 适用于公制和英制规格

JFT & JMT, JFTS & JMTS



▶ Page XX

JFT & JMT

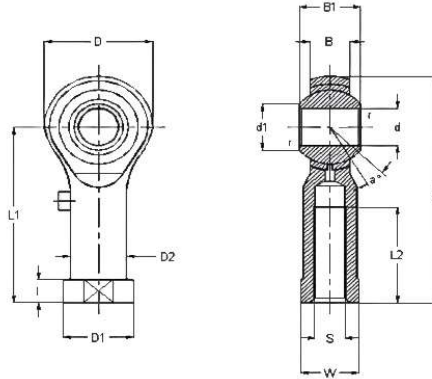
- ◆ Maintenance Free / 免保养
- ◆ Self-lubricating / 自动润滑
- ◆ For applications where oscillating motion occurs frequently / 适用于振动频繁的应用
- ◆ Stable performance / 性能稳定

JFTS & JMTS

- ◆ Same dimensions as JFT & JMT / 与JFT和JMT尺寸相同
- ◆ Stainless-steel / 不锈钢
- ◆ Maintenance Free / 免保养
- ◆ Self-lubricating / 自动润滑

JF

◆ Steel On Composite Material (Metric Dimension) / 合成钢材质 (公制规格)
Female Thread / 内螺纹



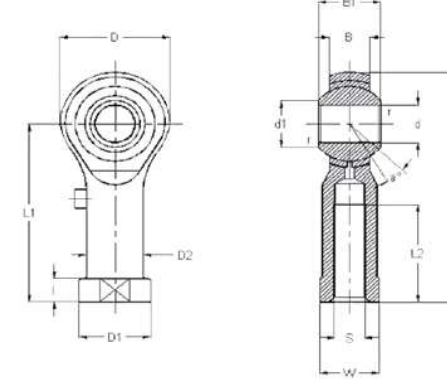
Part No. 编号	Mass 重量 gr.	Dimensions (mm) / 尺寸 (mm)														Tilting angle a°	Spherical Diameter 球面外径 mm	Basic Static Load Ratings 额定静负 载率 Co/Kgf	
		d	Threads 螺纹	D	B	B ₁	d ₁	L (max)	l	L ₁ (max)	L ₂	W	D ₁	D ₂	r				
JF 5	16.5	5	M5 x 0.8	16	6	8	7.7	35.1	4	27.1	14	9	11	9	0.5	13	11.1	570	
JF 6	25	6	M6 x 1	18.5	6.75	9	9	39.35	5	30.1	14	11	13	10	0.5	13	12.7	700	
JF 8	43	8	M8 x 1.25	23	9	12	10.4	49.1	6	37.5	17	14	16	12.5	0.5	13	15.87	1,000	
JF 10	72	10	*M10 x 1.25 M10 x 1.5	27	10.5	14	12.9	58.6	8	44.6	21	17	19	15	0.5	13	19.05	1,350	
JF 12	107	12	M12 x 1.75	31	12	16	15.8	67.1	7.5	51.6	24	19	22	17.5	0.5	13	22.5	1,700	
JF 14	160	14	*M14 x 1.5 M14 x 2	34	13.5	19	16.9	75.2	9	58.2	27	22	25	20	0.5	15	25.4	2,100	
JF 16	210	16	*M16 x 1.5 M16 x 2	38	15	21	19.3	84.7	9.5	65.7	33	24	27	22	0.5	15	28.5	2,550	
JF 18	295	18	M18 x 1.5	43	16.5	23	21.7	93.2	10	71.7	36	27	31	25	0.5	15	31.6	3,000	
JF 20	380	20	M20 x 1.5	46	18	25	23.8	101.2	11	78.2	40	30	34	27.5	0.5	15	34.5	3,500	
JF 22	490	22	M22 x 1.5	52	20	28	25.8	110.2	12	84.2	43	32	37	30	0.5	15	38.1	4,200	
JF 24	750	25	*M24 x 1.5	60	22	31	29.8	124.2	12	94.2	50	36	42	33.5	0.5	15	43	7,400	
*M24 x 2																			
*M25 x 1.5																			
JF 25			*M26 x 1.5																
JF 30	900	30	*M30 x 1.5 M30 x 2	73	21	32	34.4	145.3	16.5	109	50	47	49	40	0.5	15	47	9,100	
JF 35	1400	35	*M36 x 1.5 M36 x 2	82	23	35	39.8	173.3	17	132	60	49	58	48	0.5	15	53	11,400	

◆ Please denote thread dimension in order sheet for star-marked threaded rod ends in the table above.
如欲订购上列表中带星号(*)的杆端轴承, 请在订单上注明螺纹尺寸。

◆ JF20 ~ JF35 are suitable for the accommodation of heavy loads because they are supplied equipped with spherical plain bearings.
JF20 ~ JF35 是由球面杆端装配而成, 适用于重载。

JF

◆ Steel On Composite Material (Inch Dimension) / 合成钢材质 (英制规格)
Female Thread / 内螺纹



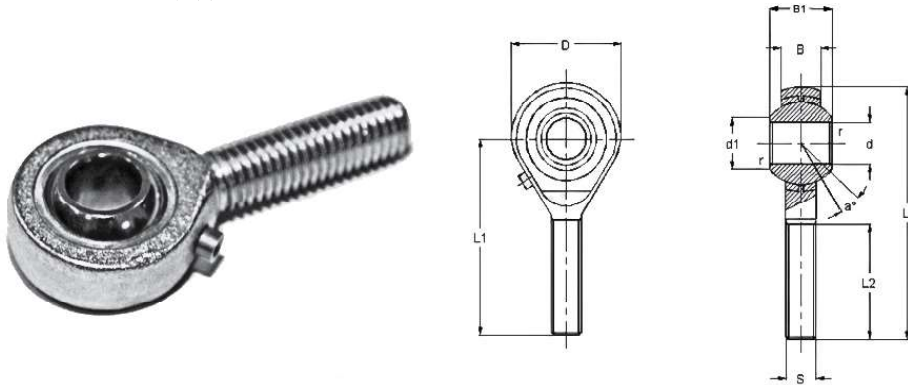
Part No. 编号	Mass 重量 gr.	Dimensions (inch / mm) / 尺寸 (Inch / mm)														Tilting angle a°	Spherical Diameter 球面外径 mm	Basic Static Load Ratings 额定静负 载率 Co/Kgf
		d	Threads 螺纹	D	B	B ₁	d ₁	L (max)	l	L ₁ (max)	L ₂	W	D ₁	D ₂	r			
JF 3/16	16.5	3/16	NO. 10-32	0.67 17	0.24 6	0.3 8	0.30 7.7	1.38 35	0.16 4	1.04 26.5	0.55 14	0.35 9	0.43 11	0.35 9	0.02 0.5	13	0.44 11.11	570
JF 1/4	25	1/4	1/4 x 28	0.73 18.5	0.27 6.75	0.4 9	0.35 9	1.54 39.2	0.20 5	1.18 30	0.55 14	0.43 11	0.51 13	0.39 10	0.02 0.5	13	0.50 12.7	700
JF 5/16	43	5/16	5/16 x 24	0.91 23	0.35 9	0.5 12	0.41 10.4	1.93 49	0.24 6	1.48 37.5	0.67 17	0.55 14	0.63 16	0.49 12.5	0.02 0.5	13	0.63 15.87	1,000
JF 3/8	72	3/8	3/8 x 24	1.06 27	0.41 10.5	0.6 14	0.51 12.9	2.30 58.5	0.31 8	1.77 45	0.83 21	0.67 17	0.75 19	0.59 15	0.02 0.5	13	0.75 19.05	1,350
JF 7/16	107	7/16	7/16 x 20	1.22 31	0.47 12	0.6 16	0.62 15.8	2.64 67	0.30 7.5	2.03 51.5	0.94 24	0.75 19	0.87 22	0.69 17.5	0.02 0.5	13	0.89 22.5	1,700
JF 1/2	107	1/2	1/2 x 20	1.22 31	0.47 12	0.6 16	0.62 15.8	2.64 67	0.30 7.5	2.03 51.5	0.94 24	0.75 19	0.87 22	0.69 17.5	0.02 0.5	13	0.89 22.5	1,700
JF 5/8	210	5/8	5/8 x 18	1.50 38	0.59 15	0.8 21	0.76 19.3	3.33 84.5	0.37 9.5	2.58 65.5	1.30 33	0.94 24	1.06 27	0.87 22	0.02 0.5	15	1.12 28.5	2,550
JF 3/4	380	3/4	3/4 x 16	1.81 46	0.71 18	1 25	0.94 23.8	3.98 101	0.43 11	3.07 78	1.57 40	1.18 30	1.34 34	1.08 27.5	0.02 0.5	15	1.36 34.5	3,500
JF 7/8	490	7/8	7/8 x 14	2.05 52	0.79 20	1.10 28	1.02 25.8	4.33 110	0.47 12	3.30 84	1.69 43	1.26 32	1.46 37	1.18 30	0.02 0.5	15	1.50 38.1	4,200
JF 1"	750	1"	1" x 12	2.36 60	0.87 22	1.2 31	1.17 29.6	4.88 124	0.47 12	3.70 94	1.97 50	1.42 36	1.65 42	1.32 33.5	0.02 0.5	15	1.69 43	5,500

◆ "R" denotes the right thread, of which the colour of the body is white.
"R" 代表右族螺纹, 体色银白。

◆ "L" denotes the left thread, of which the colour of the body is yellow.
"L" 代表左族螺纹, 体色金黄。

JM

◆ Steel On Composite Material (Metric Dimension) / 合成钢材质 (公制规格)
Male Thread / 外螺纹

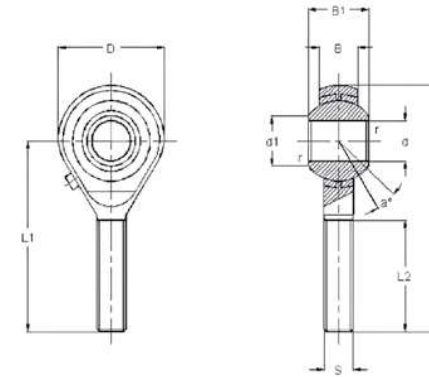


Part No. 编号	Mass 重量 gr.	Dimensions (mm) / 尺寸 (mm)										Tilting angle 偏角 a°	Spherical Diameter 球面外径 mm	Basic Static Load Ratings 额定静负载率 Co/Kgf
		d	Threads 螺纹	D	B	B ₁	d ₁	L (max)	L ₁ (max)	L ₂	r			
JM 5	12.5	5	M5 x 0.8	17	6	8	7.7	42.5	34	20	0.5	13	11.1	350
JM 6	19	6	M6 x 1	18.5	6.8	9	9	47.5	36.9	22	0.5	13	12.7	500
JM 8	32	8	M8 x 1.25	23	9	12	10.4	54.5	43	25	0.5	13	15.87	700
JM 10	54	10	M10 x 1.5	27	10.5	14	12.9	62.5	49	29	0.5	13	19.05	1,100
JM 12	85	12	M12 x 1.75	32	12	16	15.8	73.3	57.3	33	0.5	13	22.5	1,700
JM 14	126	14	M14 x 2	34	13.5	19	16.9	80.8	63.8	36	0.5	15	25.4	2,100
JM 16	185	16	M16 x 2	38	15	21	19.3	87.3	68.3	40	0.5	15	28.5	2,550
JM 18	260	18	M18 x 1.5	43	16.5	23	21.9	95.3	73.8	44	0.5	15	31.6	3,000
JM 20	340	20	M20 x 1.5	46	18	25	23.9	103.5	80.5	47	0.5	15	34.5	3,500
JM 22	435	22	M22 x 1.5	52	20	28	25.8	112.8	86.8	51	0.5	15	38.1	4,200
JM 24	650	25	*M24 x 2	60	22	31	29.8	126.8	98.8	57	0.5	15	43	7,400
JM 25			M25 x 1.5											
JM 30	910	30	M30 x 2	73	21	32	34.4	147.8	111.3	66	0.5	15	47	9,100
JM 35	1,440	35	M36 x 2	82	23	35	39.8	176.2	135.2	80	0.5	15	53	11,400

◆ JF20 ~ JF35 are suitable for the accommodation of heavy loads because they are supplied equipped with spherical plain bearings.
JF20 ~ JF35 是由球面杆端装配而成, 适用于重载。

JM

◆ Steel On Composite Material (Inch Dimension) / 合成钢材质 (英制规格)
Male Thread / 外螺纹



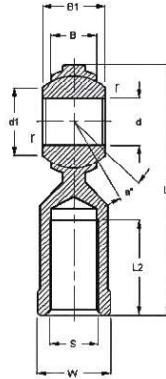
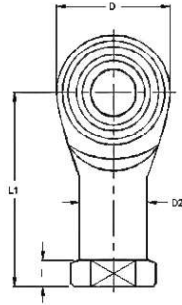
Part No. 编号	Mass 重量 gr.	Dimensions (inch / mm) / 尺寸 (Inch / mm)										Tilting angle 偏角 a°	Spherical Diameter 球面外径 inch/mm	Basic Static Load Ratings 额定静负载率 Co/Kgf
		d	Threads 螺纹	D	B	B ₁	d ₁	L	L ₁	L ₂	r			
JM 3/16	12.5	3/16	NO. 10-32	0.67 17	0.24 6	0.3 8	0.30 7.7	1.67 42.5	1.34 34	0.79 20	0.02 0.5	13	0.44 11.11	350
JM 1/4	19	1/4	1/4 x 28	0.73 18.5	0.27 6.8	0.4 9	0.35 9	1.81 46	1.45 36.73	0.87 22	0.02 0.5	13	0.50 12.7	500
JM 5/16	32	5/16	5/16 x 24	0.91 23	0.35 9	0.5 12	0.41 10.4	2.13 54	1.67 42.5	0.98 25	0.02 0.5	13	0.63 15.87	700
JM 3/8	54	3/8	3/8 x 24	1.06 27	0.41 10.5	0.6 14	0.51 12.9	2.44 62	1.91 48.5	1.14 29	0.02 0.5	13	0.75 19.05	1,100
JM 7/16	85	7/16	7/16 x 20	1.26 32	0.47 12	0.6 16	0.62 15.8	2.87 73	2.24 57	1.30 33	0.02 0.5	13	0.89 22.5	1,700
JM 1/2	85	1/2	1/2 x 20	1.26 32	0.47 12	0.6 16	0.622 15.8	2.87 73	2.24 57	1.30 33	0.02 0.5	13	0.89 22.5	1,700
JM 5/8	185	5/8	5/8 x 18	1.50 38	0.59 15	0.8 21	0.76 19.3	3.41 86.5	2.66 67.5	1.57 40	0.02 0.5	15	1.12 28.5	2,550
JM 3/4	340	3/4	3/4 x 16	1.81 46	0.71 18	1 25	0.94 23.9	4.06 103	3.15 80	1.85 47	0.02 0.5	15	1.36 34.5	3,500
JM 7/8	435	7/8	7/8 x 14	2.05 52	0.79 20	1.10 28	1.02 25.8	4.41 112	3.39 86	2.01 51	0.02 0.5	15	1.50 38.1	4,200
JM 1"	600	1"	1" x 12	2.36 60	0.87 22	1.2 31	1.17 29.8	4.96 126	3.78 96	2.24 57	0.02 0.5	15	1.69 43	5,500

◆ "R" denotes the right thread, of which the colour of the body is white.
"R" 代表右族螺纹, 体色银白。

◆ "L" denotes the left thread, of which the colour of the body is yellow.
"L" 代表左族螺纹, 体色金黄。

JFT

◆ Maintenance Free (Metric Dimension) / 免保养 (公制规格)
Female Thread / 内螺纹

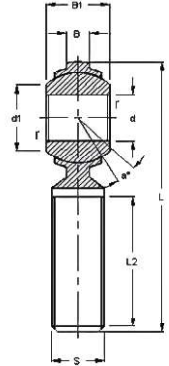
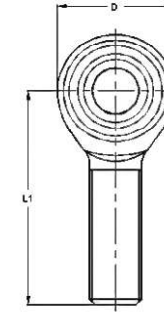


Part No. 编号	Mass 重量 gr.	Dimensions (mm) / 尺寸 (mm)													Tilting angle a°	Spherical Diameter 球面外径 mm	Basic Static Load Ratings 额定静负 载率 Co/Kgf	
		d	Threads 螺纹	D	B +0.1 -0.4	B ₁ +0 -0.1	d ₁	L	l	L ₁	L ₂	W +0 -0.2	D ₁	D ₂				r
JFT 5	16.5	5	M5 x 0.8	16	6	8	7.7	35	4	27	14	9	11	9	0.5	13	11.1	400
JFT 6	25	6	M6 x 1	18	6.75	9	9	39	5	30	14	11	13	10	0.5	13	12.7	510
JFT 8	43	8	M8 x 1.25	23	9	12	10.4	47	5	35.5	17	14	16	12.5	0.5	13	15.87	760
JFT 10	72	10	*M10 x 1.25 M10 x 1.5	27	10.5	14	12.9	56	7	42.5	21	17	19	15	0.5	13	19.05	960
JFT 12	107	12	M12 x 1.75	31	12	16	15.8	66	7.5	50.5	24	19	22	17.5	0.5	13	22.5	1,120
JFT 14	160	14	*M14 x 1.5 M14 x 2	35	13.5	19	16.9	75	8.5	57.5	27	22	25	20	0.5	15	25.4	1,550
JFT 16	210	16	*M16 x 1.5 M16 x 2	39	15	21	19.3	83	8.5	63.5	33	24	27	22	0.5	15	28.5	2,060
JFT 18	295	18	M18 x 1.5	43	16.2	23	21.7	92	10	71.5	36	27	31	25	0.5	15	31.6	2,570
JFT 20	380	20	M20 x 1.5	46	18	25	23.8	101	11	78	40	30	34	27.5	0.5	15	34.5	2,840

◆ Please denote thread dimension in order sheet for star-marked threaded rod ends in the table above.
如欲订购上列表中带星号(*)的杆端轴承, 请在订单上注明螺纹尺寸。

JMT

◆ Maintenance Free (Metric Dimension) / 免保养 (公制规格)
Male Thread / 外螺纹



Part No. 编号	Mass 重量 gr.	Dimensions (mm) / 尺寸 (mm)													Tilting angle a°	Spherical Diameter 球面外径 mm	Basic Static Load Ratings 额定静负 载率 Co/Kgf
		d	Threads 螺纹	D	B +0.1 -0.4	B ₁ +0 -0.1	d ₁	L	L ₁	L ₂	r						
JMT 5	12.5	5	M5 x 0.8	17	6	8	7.7	42	33.5	20	0.5	13	11.1	350			
JMT 6	19	6	M6 x 1	18.5	6.75	9	9	46	36.75	22	0.5	13	12.7	500			
JMT 8	32	8	M8 x 1.25	23	9	12	10.4	53	41.5	25	0.5	13	15.87	700			
JMT 10	54	10	M10 x 1.5	27	10.5	14	12.9	61	47.5	26.5	0.5	13	19.05	960			
JMT 12	85	12	M12 x 1.75	31	12	16	15.8	69	53.5	33	0.5	13	22.5	1,120			
JMT 14	126	14	M14 x 2	35	13.5	19	16.9	76.5	59	36	0.5	15	25.4	1,550			
JMT 16	185	16	M16 x 2	39	15	21	19.3	85	65.5	40	0.5	15	28.5	2,060			
JMT 18	260	18	M18 x 1.5	43	16.2	23	21.7	94.5	73	44	0.5	15	31.6	2,570			
JMT 20	340	20	M20 x 1.5	46	18	25	23.8	103	80	47	0.5	15	34.5	2,840			

Rod End

杆端关节轴承

◆ Material Specifications 材质规格

Type 型号	Body 表面	Ball 球体	Bush 衬套	Liner 衬垫
JF & JM	Carbon Steel 碳素钢 - SM45C(KS), S45C(JIS) or C45(DIN)	Carbon chromium bearing sheet 碳化铬轴承钢 - STB2(KS), SUJ2(JIS) or 100Cr6 (DIN)	Cu-Zn Alloyed Brass 铜-锌, 被熔化的 黄铜	NA
JFT & JMT	Carbon Steel 碳素钢 - SM45C(KS), S45C(JIS) or C45(DIN)	Carbon chromium bearing sheet 碳化铬轴承钢 - STB2(KS), SUJ2(JIS) or 100Cr6 (DIN)	Cu-Zn Alloyed Brass 铜-锌, 被熔化的 黄铜	Self-lubricating PTFE liner 自润型PTFE衬垫
JFTS & JMTS	Stainless Steel 不锈钢	STS440C(KS) or SUS440C (JIS)	Cu-Zn Alloyed Brass 铜-锌, 被熔化的 黄铜	Self-lubricating PTFE liner 自润型PTFE衬垫

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Lead Screws & Nuts

梯形丝杠与螺母



Features/Advantages

▶ Low Cost

Considerable savings when compared to ball screw assemblies.

▶ Variety

Largest range of leads - diameters 3/16" to 3" and 6 to 24mm to match your requirements.

▶ Lubrication

Internally lubricated plastic nuts will operate without lubrication. However, additional lubrication or PTFE coating of the screw is recommended to optimize efficiency and life.

▶ Vibration and Noise

No ball recirculating vibration and often less audible noise compared to ball screws.

Design Considerations

▶ Load

Supernuts provide a cost effective solution for moderate to light loads. For vertical applications, anti backlash supernuts should be mounted with thread/flange on the bottom.

▶ Self-Locking

Lead screws can be self locking at low leads. Generally, the lead of the screw should be more than 1/3 of the diameter to satisfactorily backdrive.

特点/优点

▶ 低成本

与滚珠丝杠副相比，节约相当多的成本。

▶ 品种多

各种导程和直径 - 从3/16至3英寸及6至24毫米，以满足客户的需求。

▶ 润滑

内部润滑的塑料螺母将无润滑滚珠，再者，也可使用额外的润滑剂或聚四氟乙烯（PTFE）涂层的丝杠，以提高效率及延长寿命。

▶ 振动和噪声

与滚珠丝杠相比，无封闭循环滚珠，有较小的可闻噪声。

设计考虑事项

▶ 负载

超级螺母为中、轻负载提供了一个具有成本效益的解决方案。对于垂直应用中，消除超级螺母应该用螺纹 / 法兰安装在底部。

▶ 自锁

丝杠可以低速自锁。一般情况下，丝杠的导程应大于直径的1/3，以达到满意的后传动。

► Custom

Option of custom designs to fit into your design envelope.

► Non-Corrosive*

Stainless Steel and internally lubricated acetal.

► Environment

Less susceptible to particulate contamination compared to ball screws.

► Lightweight

Less mass to move.

► Temperature

Ambient and friction generated heat are the primary causes of premature plastic nut failure. Observe the temperature limits below and discuss your design with our application engineers for continuous duty, high load and high speed applications. Recommend using bronze nuts or high temperature plastic for a custom assembly under very high temperature environments.

► Efficiency

Except at very high leads, efficiency increases as lead increases. Although the internally lubricated acetal provides excellent lubricity, Ball Screw Assemblies remain significantly more efficient than any Acme design.

► Length Limitations

3/16" to 1/4" 3'
5/16" to 10mm 4'
7/16" to 5/8" 6'
>5/8" 12'

► Lead Accuracy

Standard Grade (SRA) .010 in/ft
Precision Grade (SPR) .003 in/ft

► 定制

可定制设计以适合客户的设计外壳。

► 无腐蚀性

不锈钢和内部润滑的乙缩醛。

► 环境

与滚珠丝杠相比，对微粒的敏感性小。

► 重量轻

质量小，易于移动。

► 温度

环境和摩擦生热是导致塑料螺母过早损坏的主要原因。遵守下列的温度限值，与我们的应用工程师一起讨论您的设计，以适应连续工作、高负载和高速应用。在非常高的温度环境下，建议使用青铜螺母，或者借助选择高温塑料来定制组件。

► 效率

除了非常高的导程外，效率随着导程的增加而增加。尽管内部润滑的乙缩醛具有非常好的润滑性能，但滚珠丝杠副仍比任何Acme设计更高效。

► 长度限值

3/16英寸至1/4英寸 3英尺
5/16英寸至10毫米 4英尺
7/16英寸至5/8英寸 6英尺
>5/8英寸 12英尺

► 导程精度

标准等级 (SRA) .010英寸/英尺
精密等级 (SPR) .003英寸/英尺

Assembly 丝杠副		Screws 丝杆	Nuts 螺母			
Max. Temp 最高温度	Friction Coefficient 摩擦系数	Material 材质	Material 材质	Tensile Strength 抗拉强度	Water Absorption 吸水性能 (24 Hrs %)	Thermal Expansion Coefficient 热膨胀系数
180°F	0.08 - 0.14	Stainless Steel 不锈钢	Acetal with PTFE 乙缩醛带有聚四氟乙烯涂层	8000 psi	0.15	5.4 x 10-5 in./in./°F

◆ Lead Screw Product Summary 丝杠产品概要

Series 系列	Precision LeadScrews 精密梯形丝杆	
	Inch 英制	Metric 公制
Lead Accuracy 导程精度	0.010"/ft. for standard (标准) 0.003"/ft. for precision (精密)	250 micron/300mm for standard (标准) 75 micron/300mm for precision (精密)
Diameter 直径	0.187" - 3.00"	6mm - 24mm
Lead 导程	0.013" - 2.00"	0.5mm - 50.0mm
Backlash 背隙	0.10" (max)	0.25mm (max)
Dynamic Load 动态荷载	Up to 400 lbs*	Up to 1.3 kN*
Max. Static Load 最大静态荷载	Up to 2,000 lbs*	Up to 6.6 kN*

* Plastic nut ratings. Does not include bronze nut specifications. 仅适用于塑料螺母，不包括青铜螺母的规格。

◆ Lead Screw Product Availability 丝杠产品可用性

Dia. (in.) 直径 (英寸)	Lead(in.) 导程 (英寸)																
	0.031	0.050	0.063	0.083	0.100	0.125	0.167	0.200	0.250	0.300	0.375	0.500	0.800	1.000	1.200	1.500	2.000
3/16		•				•											
1/4	•	•	•			•		•	•			•					
5/16				•			•	•	•			•		•			
3/8		•	•	•	•	•	•	•	•	•	•	•		•	•		
7/16					•			•				•					
1/2			•		•			•	•			•	•	•		•	
5/8					•	•		•	•			•					
3/4					•	•	•	•				•		•		•	•
1					•	•		•	•			•		•			
1-1/4								•	•								
1-1/2								•	•			•	•				
2									•								
2-1/4									•								
2-1/2									•								
2-3/4									•								
3									•								

Dia. (mm) 直径 (毫米)	Lead(mm) 导程 (毫米)															
	1	2	3	4	5	6	8	10	12	15	16	20	25	35	45	50
6	•	•	•													
10		•	•	•	•	•		•	•			•		•		
12			•	•	•	•		•		•			•	•		
16				•	•		•			•		•	•			
20				•			•		•		•	•			•	•
24					•											

Screws 螺絲杆

Screws 螺絲杆

◆ Critical Speed Limits Chart for Lead Screws and Rolled Ball Screws

丝杠和滚珠丝杠之临界速度限值表

Every screw shaft has a rotational speed limit. That is the point at which the rotational speed sets up excessive vibration. This critical point is modified by the type of end bearing support used.

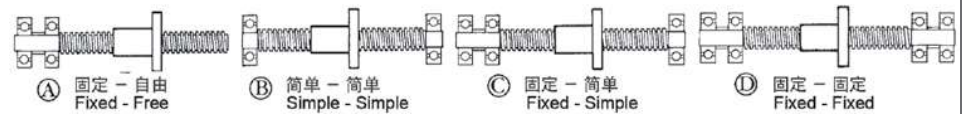
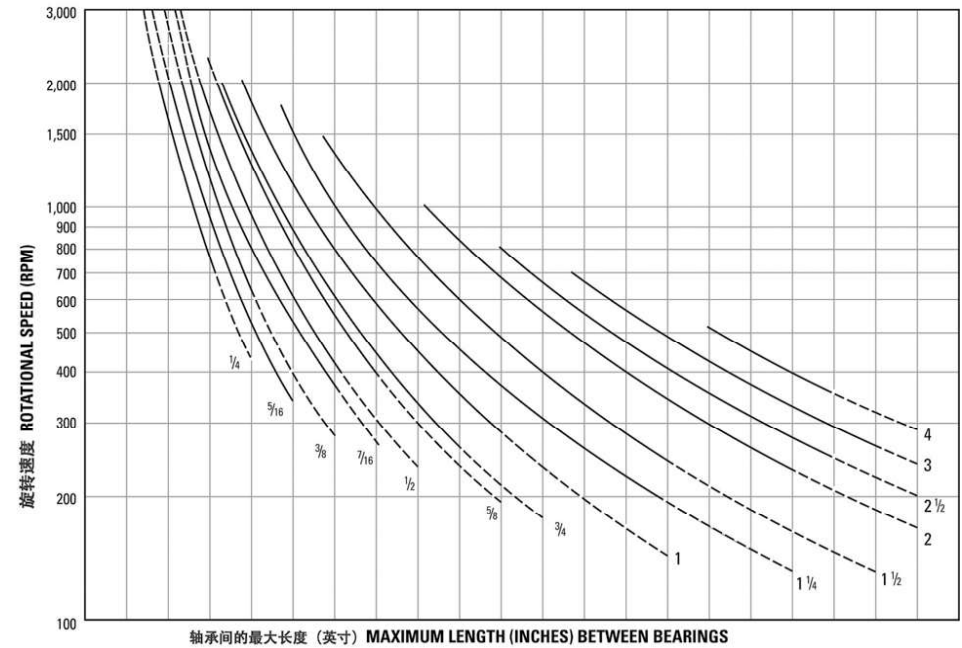
To use this chart, determine the required rpm and the maximum length between bearing supports. Next, select one of the four types of end support shown below. The critical speed limit can be found by locating the point at which rpm (horizontal lines) intersects with the unsupported screw length (vertical lines) as modified by the type of supports selected below. We recommend operating at no more than 80% of the critical speed limit to allow for misalignment and/or lack of screw straightness. If speed falls into dotted line, consult factory.

每个丝杠轴均有一个旋转速度限值。旋转速度限值是旋转速度产生过量振动的点。临界点由所使用的端轴承座形式改变。

为了使用该表，确定所需的RPM 和轴承座间的最大长度。下一步，从下面四种端座形式中选一种。可以通过定位点的方式找到临界速度限值，该点为RPM（水平线）和无支承丝杠长度（垂直线）的交点，限值点由下面选择的支承形式改变。虑及轴线不重合和（或）丝杠直线度不足的情况，我们建议运行速度不应超过临界速度限值的80%。

◆ Critical Speed Limits Chart for Lead Screws and Rolled Ball Screws

丝杠和滚珠丝杠之临界速度限值表



	Inches	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	120	126
A	英寸	152	304	457	609	762	914	1056	1219	1371	1524	1676	1828	1981	2133	2286	2438	2590	2743	3048	3200
	毫米																				
	Inches	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
B	英寸	254	508	762	1016	1270	1524	1778	2032	2286	2540	2794	3048	3302	3556	3810	4064	4318	4572	4826	5080
	毫米																				
	Inches	12	24	36	48	61	73	85	97	109	121	133	145	158	170	182	194	206	218	230	242
C	英寸	304	609	914	1219	1549	1854	2159	2463	2768	3073	3378	3683	4013	4318	4622	4927	5232	5537	5842	6146
	毫米																				
	Inches	15	30	45	60	75	90	105	119	134	149	164	179	194	209	224	239	254	269	284	298
D	英寸	381	762	1143	1524	1905	2286	2667	3022	3403	3784	4165	4546	4927	5308	5689	6070	6451	6832	7213	7594
	毫米																				

Warning: Curves for the screw diameters shown are based on the smallest root (minor) diameter of the standard screws within the nominal size range and truncated at the maximum ball nut rotational speed. DO NOT EXCEED this rpm regardless of screw length.

警告：所示的丝杠直径曲线均基于标准丝杠的中心轴直径（较小的），标准丝杠的规格在公称规格范围内，曲线在滚珠螺母最大旋转速度处截断。无论丝杠长度如何，均不应超过该RPM。

Lead Screws

梯形丝杠

◆ Lead Screws - 3/16" to 5/16" Diameter
梯形丝杠 - 3/16英寸至5/16英寸直径



Nominal Major Diameter 公称大直径	Lead 导程	Precision Prefix 精密型前缀	Standard Prefix 标准型前缀	Part. No. 产品编号	Avail in Left Hand 左手侧可用	Material 材质	Root Diameter 中心轴直径	Recommended Bearing 建议使用轴承
3/16"	0.050	SPR	SRA	1820	L	Stainless Steel 不锈钢	0.12	NA
	0.125			3-1824			0.13	
6mm	1mm	SPR	SRA	6x1M	L	Stainless Steel 不锈钢	0.18	4mm
1/4"	0.031	SPR	SRA	2532	L	Stainless Steel 不锈钢	0.21	4mm
	0.050			2520	L		0.19	
	0.063			2516	L		0.17	
	2mm			2-25x1M			0.19	
	3mm			3-25x1M			0.19	
	0.125			2-2516			0.17	
	0.200			4-2520			0.018	
	0.25			4-2516			0.17	
	0.500			7-2514			0.16	
	NA							
5/16"	0.083	SPR	SRA	3112	L	Stainless Steel 不锈钢	0.22	4mm
	0.167			2-3112			0.20	
	0.250			2-3108S			0.22	
	0.500			4-3108S			0.21	
	1.000			8-3108			0.23	

◆ Lead Screws - 3/8" (10mm) to 7/16" (12mm) Diameter
梯形丝杠 - 3/8英寸 (10毫米) 至7/16英寸 (12毫米) 直径

Nominal Major Diameter 公称大直径	Lead 导程	Precision Prefix 精密型前缀	Standard Prefix 标准型前缀	Part. No. 产品编号	Avail in Left Hand 左手侧可用	Material 材质	Root Diameter 中心轴直径	Recommended Bearing 建议使用轴承
3/8"	0.050	SPR	SRA	3720	L	Stainless Steel 不锈钢	0.30	4mm
	0.0625			3716	L		0.30	
	2mm			37x2M	L		0.28	
	0.083			3712	L		0.28	
	0.100			3710	L		0.26	
	0.125			3708S	L		0.29	
	0.167			2-3712S			0.31	
	0.200			2-3710			0.26	
	0.250			2-3708S	L		0.29	
	0.300			3-3710			0.25	
	0.375			4-3711	L		0.27	
	0.500			4-3708S	L		0.27	
	1.000			5-3705			0.24	
	1.200			5-3704			0.24	
	10mm			2mm	SPT		SRT	
3mm		10x3M	L	0.25				
4mm		2-10x2M		0.29				
5mm		SPR	SRA	2-10x2.5M		0.27		
6mm				4-10x1.5M		0.31		
10mm				5-10x2M		0.29		
12mm				5-10x2.4M		0.029		
20mm				6-10x3.3M		0.30		
35mm				10-10x3.5M		0.29		
7/16"		0.125	SPR	SRA	2-4316		Stainless Steel 不锈钢	0.35
	0.250	2-4308S				0.36		
	0.500	4-4308S				0.33		
12mm	3mm	SPT	SRT	12x3M		Stainless Steel 不锈钢	0.31	6mm
	4mm	SPR	SRA	2-12x2M			0.36	
	5mm	SPT	SRT	2-12x2.5M			0.35	
	6mm	SPR	SRA	3-12x2M			0.35	
	10mm	SPT	SRT	4-12x2.5M			0.35	
	15mm	SPR	SRA	6-12x2.5M			0.34	
	25mm	-	SRA	10-12x2.5M			0.36	
	45mm	-	SRA	15-12x3M			0.37	

Screws
螺絲

Screws
螺絲

Lead Screws

梯形丝杠

◆ Lead Screws - 1/2" to 5/8" (16mm) Diameter
梯形丝杠 - 1/2英寸至5/8英寸 (16毫米) 直径



Nominal Major Diameter 公称大直径	Lead 导程	Precision Prefix 精密型前缀	Standard Prefix 标准型前缀	Part. No. 产品编号	Avail in Left Hand 左手侧可用	Material 材质	Root Diameter 中心轴直径	Recommended Bearing 建议使用轴承
1/2"	0.063	SPR	SRA	5016	L	Stainless Steel 不锈钢	0.41	6mm
	0.100			5010			0.37	
	4mm			2-50x2M			0.39	
	0.200			2-5010			0.39	
	0.250			2-5008			0.38	
	0.500			4-5008			0.36	
	0.800	8-5010	0.37					
	1.000	8-5008	0.39					
	1.500	12-5008	0.39					
	5/8"	0.100	SPR	SRA	6210		L	
0.125		6208S			L	0.52		
0.200		2-6210			L	0.52		
0.250		2-6208S				0.52		
0.500		4-6208				0.48		
16mm	4mm	SPT	SRT	16x4M	L	Stainless Steel 不锈钢	0.45	8 to 10mm
	5mm	SPR	SRA	2-16x2.5M			0.48	
	8mm			4-16x2M			0.51	
	16mm			7-16x2.3M			0.49	
	25mm	NA		5-16x5M			0.45	
	35mm			7-16x5M			0.48	

◆ Lead Screws - 3/4" (20mm) to 1-1/4" Diameter
梯形丝杠 - 3/4英寸 (20毫米) 至1-1/4英寸直径

Nominal Major Diameter 公称大直径	Lead 导程	Precision Prefix 精密型前缀	Standard Prefix 标准型前缀	Part. No. 产品编号	Avail in Left Hand 左手侧可用	Material 材质	Root Diameter 中心轴直径	Recommended Bearing 建议使用轴承
3/4"	0.100	SPR	SRA	7510	L	Stainless Steel 不锈钢	0.63	12mm
	0.125			7508	L		0.61	
	1.500	NA		12-7508			0.62	
	0.167	SPR		7506	L		0.56	
	0.200			7505	L		0.53	
	0.500	NA		5-7510			0.62	
	1.000			8-7508			0.61	
	2.000			10-7505	L		0.59	
20mm	4mm	SPT	SRT	20x4M	L	Stainless Steel 不锈钢	0.61	12mm
	8mm	SPR	SRA	2-20x4M			0.58	
	12mm			3-20x4M			0.59	
	16mm			4-20x4M			0.59	
	20mm	-		5-20x4M			0.59	
	45mm	-		9-20x5M			0.62	
50mm		10-20x5M			0.65			
24mm	5mm	SPT	SRT	24x5M	L	Stainless Steel 不锈钢	0.73	12 to 15mm
1"	0.100	SPR	SRA	1010	L	Stainless Steel 不锈钢	0.88	12 to 20mm
	0.125			1008	L		0.86	
	0.200			1005	L		0.78	
	0.250	NA	RA	1004	L	Carbon Steel 碳钢	0.72	12 to 15mm
	0.250	SPR	SRA	2-1008		Stainless Steel 不锈钢	0.84	12 to 20mm
	0.500			5-1010			0.88	
	1.000			10-1010			0.88	
1-1/4"	0.200	NA	SRA	1205	L	Low Carbon Steel 低碳钢	1.03	20mm
	0.200			1205	L	Stainless Steel 不锈钢	1.01	
	0.200			2-1210		1.11		
	0.250	RA	1204	L	Low Carbon Steel 低碳钢	0.98		

Screws
螺絲

Screws
螺絲

Lead Screws

梯形丝杠

- ◆ Lead Screws - 1-1/2" to 3" Diameter
梯形丝杠 - 1-1/2英寸至3英寸直径

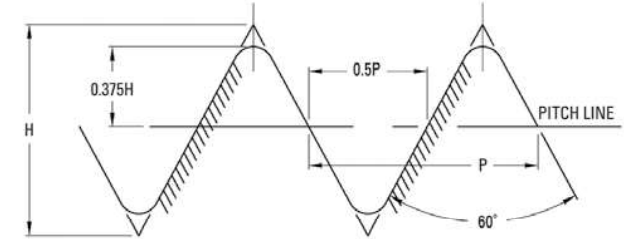


Nominal Major Diameter 公称大直径	Lead 导程	Precision Prefix 精密型前缀	Standard Prefix 标准型前缀	Part. No. 产品编号	Avail in Left Hand 左手侧可用	Material 材质	Root Diameter 中心轴直径	Recommended Bearing 建议使用轴承
1-1/2"	0.200	NA	RA	1505	L	Low Carbon Steel 低碳钢	1.28	25mm
	0.250			L	1.23			
	0.375			L	1.11			
	0.500			L	1.23			
2"	0.250	NA	RA	2004	L	Low Carbon Steel 低碳钢	1.73	*
2-1/4"	0.250	NA	RA	2204	L	Low Carbon Steel 低碳钢	1.98	*
2-1/2"	0.250	NA	RA	2504	L	Low Carbon Steel 低碳钢	2.23	*
2-3/4"	0.250	NA	RA	2704	L	Low Carbon Steel 低碳钢	2.48	*
3"	0.250	NA	RA	3004	L	Low Carbon Steel 低碳钢	2.73	*

V-Thread Screws

"V"形丝杠

- ◆ V-Thread Screws - Burnished Finished 303 Stainless Steel
"V"形丝杠 - 303不锈钢, 磨光处理



Diameter 直径	Lead 导程	Size 尺寸	Part. No. 产品编号	Recommended Bearing 建议使用轴承
6mm	1mm	6x1	SV6x1	4mm
1/4"	0.0125	1/4-80	SV2580	4mm
	0.0208	1/4-48	SV2548	
	0.0250	1/4-40	SV2540	
	0.0278	1/4-36	SV2536	
	0.0313	1/4-32	SV2532	
	0.0357	1/4-28	SV2528	
	0.0417	1/4-24	SV2524	
5/16"	0.0130	5/16-80	SV3180	4mm
	0.0420	5/16-24	SV3124	
3/8"	0.0130	3/8-80	SV3780	4 to 6mm
	0.0250	3/8-40	SV3740	
	0.0313	3/8-32	SV3732	
	0.0400	3/8-25	SV3725	
	0.0417	3/8-24	SV3724	
	0.0500	3/8-20	SV3720	
	0.0625	3/8-16	SV3716	
7/16"	0.0500	7/16-20	SV4320	6mm
	0.0130	1/2-80	SV5080	
1/2"	0.0250	1/2-40	SV5040	6 to 8mm
	0.0333	1/2-30	SV5030	
	0.0500	1/2-20	SV5020	
	0.0625	1/2-16	SV5016	
	0.0769	1/2-13	SV5013	

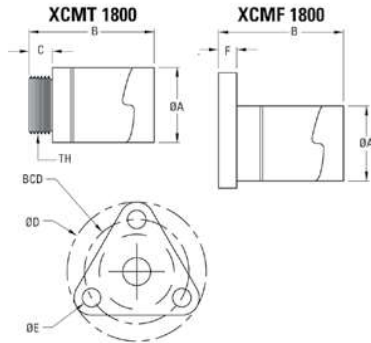
Screws
螺絲

Screws
螺絲

Anti-Backlash Nut

无间隙螺母

◆ XCM 1800



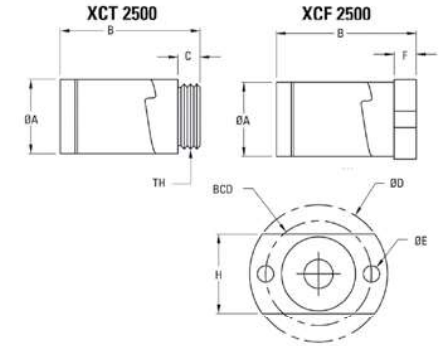
Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸								Design Load 设计 载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司- 英寸
			A	B	C	D	E	F	BCD	TH			
3/16"	0.050	XCM_1820	0.50	0.90 (max)	0.200	1.00	0.143	0.18	0.750	7/16"- 20	5 lbs	49	< 1
	0.125	XCM_3-1824										70	
6mm	1mm	XCM_6x1	0.50	0.90 (max)	0.200	1.00	0.143	0.18	0.750	7/16"- 20	5 lbs	29	< 1
1/4"	0.0125	XCM_2580	0.50	0.90 (max)	0.200	1.00	0.143	0.18	0.750	7/16"- 20	5 lbs	13	< 1
	0.0208	XCM_2548										20	
	0.0250	XCM_2540										23	
	0.0278	XCM_2536										25	
	0.0313	XCM_2532										28	
	0.0357	XCM_2528										30	
	0.0417	XCM_2524										34	
1/4"	0.050	XCM_2520	0.50	0.90 (max)	0.200	1.00	0.143	0.18	0.750	7/16"- 20	5 lbs	41	< 1
	0.063	XCM_2516										48	
	2mm	XCM_2-25X1M										53	
	3mm	XCM_3-25X1M										62	
	0.125	XCM_2-2516										64	
	0.200	XCM_4-2520										72	
	0.250	XCM_4-2516										76	
	0.500	XCM_7-2514										81	

Screws
螺絲

Anti-Backlash Nut

无间隙螺母

◆ XC 2500



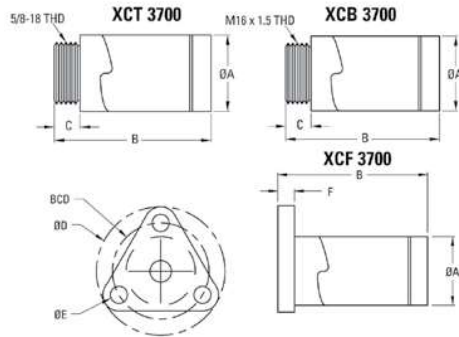
Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸										Design Load 设计 载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司- 英寸
			A	B	C	D	E	F	H	BCD	TH				
6mm	1mm	XC_6x1	0.64	1.18 (max)	0.187	1.19	0.141	0.16	0.66	0.900	9/16"- 18	10 lbs	29	< 1	
1/4"	0.0125	XC_2580	0.64	1.18 (max)	0.187	1.19	0.141	0.16	0.66	0.900	9/16"- 18	10 lbs	13	< 1	
	0.0208	XC_2548											20		
	0.0250	XC_2540											23		
	0.0278	XC_2536											25		
	0.0313	XC_2532											28		
	0.0357	XC_2528											30		
	0.0417	XC_2524											34		
1/4"	0.050	XC_2520	0.64	1.18 (max)	0.187	1.19	0.141	0.16	0.66	0.900	9/16"- 18	10 lbs	41	< 1	
	0.063	XC_2516											48		
	2mm	XC_2-25X1M											53		
	3mm	XC_3-25X1M											62		
	0.125	XC_2-2516											64		
	0.200	XC_4-2520											72		
	0.250	XC_4-2516											76		
	0.500	XC_7-2514											81		

Screws
螺絲

Anti-Backlash Nut

无间隙螺母

◆ XC 3700

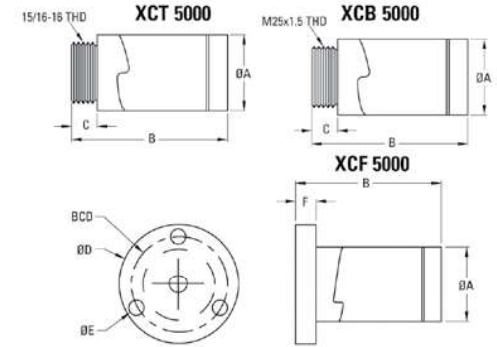


Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸							Design Load 设计 载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	C	D	E	F	BCD			
5/16"	0.083	XC_3112	0.82	1.875 (max)	0.25	1.5	0.2	0.2	1.125	25 lbs	49	1 - 3
	0.167	XC_2-3112									65	
	0.250	XC_2-3108									72	
	0.500	XC_4-3108									80	
	1.000	XC_8-3108									81	
3/8"	0.050	XC_3720	0.82	1.875 (max)	0.25	1.5	0.2	0.2	1.125	25 lbs	32	1 - 3
	0.063	XC_3716									36	
	2mm	XC_37x2M									42	
	0.083	XC_3712									44	
	0.100	XC_3710									49	
	0.125	XC_3708									53	
	0.167	XC_2-3712									60	
	0.200	XC_2-3710									65	
	0.250	XC_2-3708									68	
	0.300	XC_3-3710									73	
	0.375	XC_4-3711									75	
	0.500	XC_4-3708									79	
	10mm	2mm									XC_10x2M	
3mm		XC_10x3M	53									
4mm		XC_2-10x2M	59									
5mm		XC_2-10x2.5M	64									
6mm		XC_4-10x1.5M	67									
10mm		XC_5-10x2M	76									
12mm		XC_5-10x2.4M	78									
20mm		XC_6-10x3.3M	81									
35mm		XC_10-10x3.5M	81									

Anti-Backlash Nut

无间隙螺母

◆ XC 5000



Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸							Design Load 设计 载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	C	D	E	F	BCD			
7/16"	0.125	XC_2-4316	1.12	2.25 (max)	0.375	1.75	0.2	0.3	1.406	125 lbs	55	1 - 3
	0.250	XC_2-4308									65	
	0.500	XC_4-4308									76	
12mm	3mm	XC_12x3M	1.12	2.25 (max)	0.375	1.75	0.2	0.3	1.406	125 lbs	48	1 - 3
	4mm	XC_2-12x2M									54	
	5mm	XC_2-12x2.5M									59	
	6mm	XC_3-12x2M									63	
	10mm	XC_4-12x2.5M									73	
	15mm	XC_6-12x2.5M									78	
	25mm	XC_10-12x2.5M									82	
45mm	XC_15-12x3M	81										
1/2"	0.0625	XC_5016	1.12	2.25 (max)	0.375	1.75	0.2	0.3	1.406	125 lbs	30	1 - 3
	0.100	XC_5010									41	
	4mm	XC_2-50x2M									52	
	0.200	XC_2-5010									57	
	0.250	XC_2-5008									62	
	0.500	XC_4-5008									75	
	0.800	XC_8-5010									80	
	1.000	XC_8-5008									81	
	1.500	XC_12-5008									82	

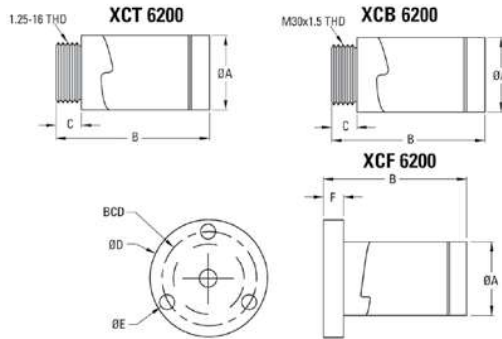
Screws
螺絲

Screws
螺絲

Anti-Backlash Nut

无间隙螺母

XC 6200



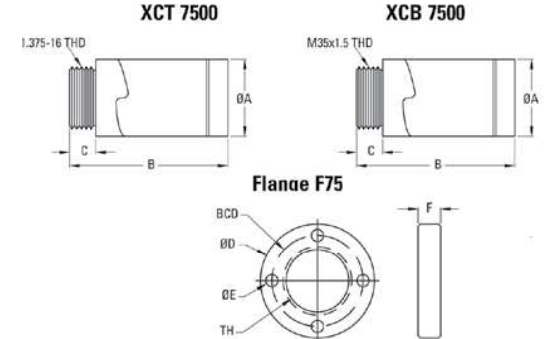
Dia. 直径	Lead 导程	Part. No. 产品编号	Nut Dimensions 螺母外形尺寸							Design Load 设计载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	C	D	E	F	BCD			
5/8"	0.100	XC_6210	1.40	2.60 (max)	0.500	2.13	0.22	0.5	1.688	175 lbs	35	2 - 6
	0.125	XC_6208									40	
	0.200	XC_2-6210									51	
	0.250	XC_2-6208									57	
	0.500	XC_4-6208									71	
16mm	4mm	XC_16x4M	1.40	2.60 (max)	0.500	2.13	0.22	0.5	1.688	175 lbs	47	2 - 6
	5mm	XC_2-16x2.5M									52	
	8mm	XC_4-16x2M									63	
	16mm	XC_7-16x2.3M									75	
	25mm	XC_5-16x5M									80	
	35mm	XC_7-16x5M									82	

Note: See screw section on page 232. Kindly specify XCT, XCB or XCF when ordering - refer to drawings above.
注: 有关丝杠资料请参阅232页。请在订购时务必指明XCT, XCB或XCF型号 - 上列各别规格图。

Anti-Backlash Nut

无间隙螺母

XC 7500



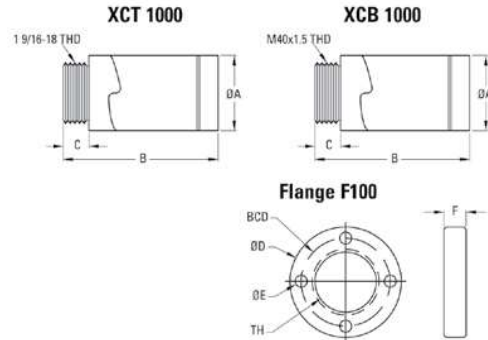
Dia. 直径	Lead 导程	Part. No. 产品编号	Nut Dimensions 螺母外形尺寸							Design Load 设计载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	C	D	E	F	BCD			
3/4"	0.100	XC_7510	1.63	2.9 (max)	0.5	2.5	0.27	0.50	2.00	250 lbs	31	3 - 10
	0.125	XC_7508									36	
	0.167	XC_7506									44	
	0.200	XC_7505									49	
	0.500	XC_5-7510									69	
	1.000	XC_8-7508									79	
	2.000	XC_10-7505									82	
20mm	4mm	XC_20x4M	1.63	2.9 (max)	0.5	2.5	0.27	0.50	2.00	250 lbs	41	3 - 10
	8mm	XC_2-20x4M									59	
	12mm	XC_3-20x4M									67	
	16mm	XC_4-20x4M									72	
	20mm	XC_5-20x4M									76	
	45mm	XC_9-20x5M									82	
	50mm	XC_10-20x5M									82	

Note: See screw section on page 232. Kindly specify XCT, XCB or XCF when ordering - refer to drawings above.
注: 有关丝杠资料请参阅232页。请在订购时务必指明XCT, XCB或XCF型号 - 上列各别规格图。

Anti-Backlash Nut

无间隙螺母

◆ XC 10000



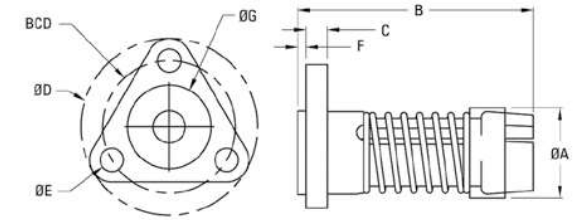
Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸							Design Load 设计载 荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	C	D	E	F	BCD			
24mm	5mm	XC_24x5M	1.88	3.0 (max)	0.60	3.0	0.27	0.60	2.37	350 lbs	42	5 - 15
1"	0.100	XC_1010	1.88	3.0 (max)	0.60	3.0	0.27	0.60	2.37	350 lbs	25	5 - 15
	0.125	XC_1008									29	
	0.200	XC_1005									41	
	0.250	XC_2-1008									46	
	0.250	XC_1004									47	
	0.500	XC_5-1010									61	
1.000	XC_10-1010	74										

Note: See screw section on page 232. Kindly specify XCT, XCB or XCF when ordering - refer to drawings above.
注: 有关丝杠资料请参阅232页。请在订购时务必指明XCT, XCB或XCF型号 - 上列各规格图。

Anti-Backlash Nut

无间隙螺母

◆ AFT



Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸							Design Load 设计载 荷	Effi- ciency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	C	D	E	F	G			
3/8"	0.050	AFT3720	0.77	2.00	0.20	1.50	0.20	0.06	0.71	1.125	10 lbs	32
	0.063	AFT3716										36
	2mm	AFT37x2M										42
	0.083	AFT3712										44
	0.100	AFT3710										49
	0.125	AFT3708										53
	0.167	AFT2-3712										60
	0.200	AFT2-3710										65
	0.250	AFT2-3708										68
	0.300	AFT3-3710										73
	0.375	AFT4-3711										75
	0.500	AFT4-3708										79
	1.000	AFT5-3705										82
	1.200	AFT5-3704										82
10mm	2mm	AFT10x2M	0.77	2.00	0.20	1.50	0.20	0.06	0.71	1.125	10 lbs	41
	3mm	AFT10x3M										53
	4mm	AFT2-10x2M										59
	5mm	AFT2-10x2.5M										64
	6mm	AFT4-10x1.5M										67
	10mm	AFT5-10x2M										76
	12mm	AFT5-10x2.4M										78
	20mm	AFT6-10x3.3M										81
	35mm	AFT10-10x3.5M										81
7/16"	0.125	AFT2-4316	0.77	2.00	0.20	1.50	0.20	0.06	0.71	1.125	10 lbs	55
	0.250	AFT2-4308										65
	0.500	AFT4-4308										76
1/2"	0.063	AFT5016	0.88	2.03	0.25	1.62	0.20	-	-	1.250	25 lbs	30
	0.100	AFT5010										41
	4mm	AFT2-50x2M										52
	0.200	AFT2-5010										57
	0.250	AFT2-5008										62
	0.500	AFT4-5008										75
	0.800	AFT8-5010										80
	1.000	AFT8-5008										81

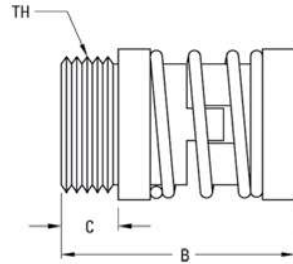
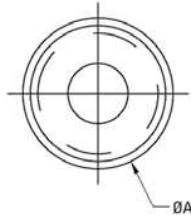
Screws
螺絲

Screws
螺絲

Thread Mount Nut

螺纹安装型螺母

◆ **SNAB Thread Mount Style** – 3/16" to 5/16" Diameter
SNAB螺纹安装型 – 3/16英寸至5/16英寸直径



Flanges 法兰

3/16" (英寸) to 1/4" (英寸)	F25
5/16" (英寸)	F37

Dia. 直径	Lead 导程	Part. No. 产品编号	Nut Dimensions 螺母外形尺寸					Preload Force (lbs) 预加载荷 (磅)	Design Load 设计载荷	Max Static Load 最大静态载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B (min)	B (max)	C	TH					
3/16"	0.050	SNAB1820X	0.625	1.125	1.250	0.187	9/16-18	1-3	10 lbs	150 lbs	49	2 - 4
	0.125	SNAB3-1824X									70	
6mm	1mm	SNAB6x1M	0.625	1.125	1.250	0.187	9/16-18	1-3	10 lbs	150 lbs	37	2 - 4
1/4"	0.031	SNAB2532X	0.625	1.125	1.250	0.187	9/16-18	1-3	25 lbs	225 lbs	30	2 - 4
	0.050	SNAB2520X									41	
	0.063	SNAB2516X									48	
	2mm	SNAB2-25x1M									53	
	3mm	SNAB3-25x1M									62	
	0.125	SNAB2-2516X									64	
	0.200	SNAB4-2520X									72	
	0.25	SNAB4-2516X									76	
0.500	SNAB7-2514X	81										
5/16"	0.083	SNAB3112X	0.750	1.160	1.340	0.250	5/8-18	2-5	50 lbs	350 lbs	49	2 - 4
	0.167	SNAB2-3112X									65	
	0.250	SNAB2-3108X									72	
	0.500	SNAB4-3108X									80	
	1.000	SNAB8-3108X									81	

◆ **SNAB Thread Mount Style** – 3/8" to 7/16" (12mm) Diameter
SNAB螺纹安装型 – 3/8英寸至7/16英寸 (12毫米) 直径

Flanges 法兰

3/8" (英寸) / 10mm(毫米)	F37
7/16" (英寸) / 12mm(毫米)	F50

Dia. 直径	Lead 导程	Part. No. 产品编号	Nut Dimensions 螺母外形尺寸					Preload Force (lbs) 预加载荷 (磅)	Design Load 设计载荷	Max Static Load 最大静态载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B (min)	B (max)	C	TH					
3/8"	0.050	SNAB3720X	0.750	1.160	1.340	0.250	5/8-18	2-5	70 lbs	350 lbs	32	2 - 4
	0.063	SNAB3716X									36	
	2mm	SNAB37x2M									42	
	0.083	SNAB3712X									44	
	0.100	SNAB3710X									49	
	0.125	SNAB3708X									53	
	0.167	SNAB2-3712X									60	
	0.200	SNAB2-3710X									65	
	0.250	SNAB2-3708X									68	
	0.300	SNAB3-3710X									73	
	0.375	SNAB4-3711X									75	
	0.500	SNAB4-3708X									79	
	1.000	SNAB5-3705X									82	
1.200	SNAB5-3704X	82										
10mm	2mm	SNAB10x2M	0.750	1.160	1.340	0.250	5/8-18	2-5	70 lbs	350 lbs	41	2 - 4
	3mm	SNAB10x3M									53	
	4mm	SNAB2-10x2M									59	
	5mm	SNAB2-10x2.5M									64	
	6mm	SNAB4-10x1.5M									67	
	10mm	SNAB5-10x2M									76	
	12mm	SNAB5-10x2.4M									78	
	20mm	SNAB6-10x3.3M									81	
	35mm	SNAB10-10x3.5M									81	
	7/16"	0.125									SNAB2-4316X	
0.250		SNAB2-4308X	65									
0.500		SNAB4-4308X	76									
12mm	3mm	SNAB12x3M	1.000	1.700	2.000	0.375	15/16-16	4-9	100 lbs	500 lbs	48	3 - 5
	4mm	SNAB2-12x2M									54	
	5mm	SNAB2-12x2.5M									59	
	6mm	SNAB3-12x2M									63	
	10mm	SNAB4-12x2.5M									73	
	15mm	SNAB6-12x2.5M									78	
	25mm	SNAB10-12x2.5M									82	
	45mm	SNAB15-12x3M									81	

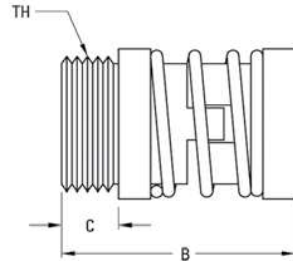
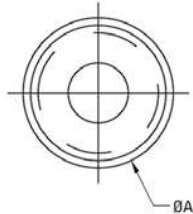
Screws 螺絲

Screws 螺絲

Thread Mount Nut

螺纹安装型螺母

◆ **SNAB Thread Mount Style** – 1/2" to 5/8" (16mm) Diameter
 SNAB螺纹安装型 – 1/2英寸至5/8英寸(16毫米) 直径



Flanges 法兰

1/2" (英寸) to 5/8" (英寸) / 16mm(毫米)	F50
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Dia. 直径	Lead 导程	Part. No. 产品编号	Nut Dimensions 螺母外形尺寸					Preload Force (lbs) 预加载荷(磅)	Design Load 设计载荷	Max Static Load 最大静态载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩盎司-英寸
			A	B (min)	B (max)	C	TH					
1/2"	0.0625	SNAB5016	1.000	1.700	2.000	0.375	15/16-16	4-9	150 lbs	750 lbs	30	5 - 8
	0.100	SNAB5010X									41	
	4mm	SNAB2-50x2M									52	
	0.200	SNAB2-5010X									57	
	0.250	SNAB2-5008X									62	
	0.500	SNAB4-5008X									75	
	0.800	SNAB8-5010X									80	
	1.000	SNAB8-5008X									81	
5/8"	0.100	SNAB6210X	1.000	1.700	2.000	0.375	15/16-16	4-9	160 lbs	800 lbs	35	7 - 10
	0.125	SNAB6208X									40	
	0.200	SNAB2-6210									51	
	0.250	SNAB2-6208X									57	
	0.500	SNAB4-6208X									71	
16mm	4mm	SNAB16x4M	1.000	1.700	2.000	0.375	15/16-16	4-9	160 lbs	800 lbs	47	7 - 10
	5mm	SNAB2-16x2.5M									52	
	8mm	SNAB4-16x2M									63	
	16mm	SNAB7-16x2.3M									75	
	25mm	SNAB5-16x5M									80	
	35mm	SNAB7-16x5M									82	

◆ **SNAB Thread Mount Style** – 3/4" to 1" Diameter
 SNAB螺纹安装型 – 3/4英寸至1英寸直径

Flanges 法兰

3/4" (英寸) to 1"(英寸)	F100
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Dia. 直径	Lead 导程	Part. No. 产品编号	Nut Dimensions 螺母外形尺寸					Preload Force (lbs) 预加载荷(磅)	Design Load 设计载荷	Max Static Load 最大静态载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩盎司-英寸
			A	B (min)	B (max)	C	TH					
3/4"	0.100	SNAB7510X	1.750	2.500	3.000	0.600	1-9/16-18	10 - 20	300 lbs	1500 lbs	31	15 - 20
	0.125	SNAB7508X									36	
	0.167	SNAB7506X									44	
	0.200	SNAB7505X									49	
	0.500	SNAB5-7510X									69	
	1.000	SNAB8-7508X									79	
	1.500	SNAB12-7508X									81	
20mm	4mm	SNAB20x4M	1.750	2.500	3.000	0.600	1-9/16-18	10 - 20	300 lbs	1500 lbs	41	15 - 20
	8mm	SNAB2-20x4M									59	
	12mm	SNAB3-20x4M									67	
	16mm	SNAB4-20x4M									72	
	20mm	SNAB5-20x4M									76	
	45mm	SNAB9-20x5M									82	
24mm	5mm	SNAB24x5M	1.750	2.500	3.000	0.600	1-9/16-18	10 - 20	300 lbs	1500 lbs	42	15 - 20
1"	0.100	SNAB1010X	1.750	2.500	3.000	0.600	1-9/16-18	10 - 20	400 lbs	2000 lbs	25	15 - 20
	0.125	SNAB1008X									29	
	0.200	SNAB1005X									41	
	0.250	SNAB1004X									46	
	0.250	SNAB2-1008X									47	
	0.500	SNAB5-1010X									61	
	1.000	SNAB10-1010X									74	

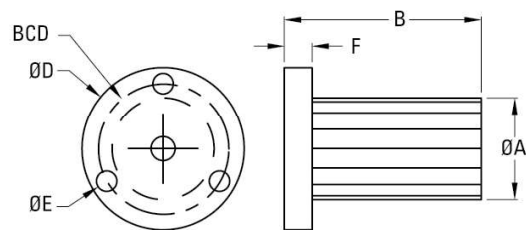
Screws 螺絲

Screws 螺絲

Flange Mount Nut

法兰安装型螺母

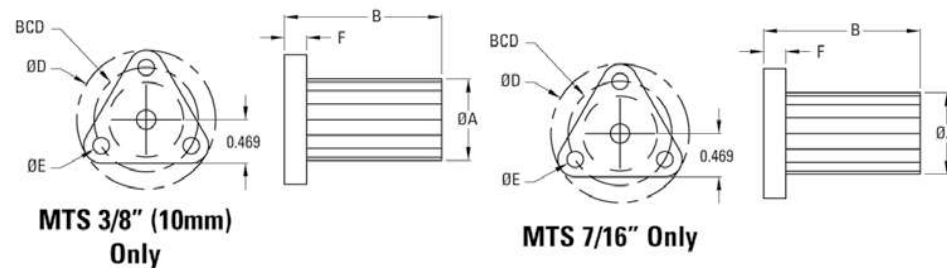
◆ **MTS Integral Flange Mount** – 3/16" to 5/16" Diameter
 MTS一体化法兰安装 – 3/16英寸至5/16英寸直径



MTS 3/16" to 5/16"

Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸						Design Load 设计 载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	D	E	F	BCD			
3/16"	0.050	MTS1820	0.500	0.750	1.000	0.140	0.150	0.75	10 lbs	49	Free Wheeling 自由 轮转
	0.125	MTS3-1824									
6mm	1mm	MTS6x1M	0.500	0.750	1.000	0.140	0.150	0.75	10 lbs	37	Free Wheeling 自由 轮转
1/4"	0.031	MTS2532	0.500	0.750	1.000	0.140	0.150	0.75	25 lbs	30	Free Wheeling 自由 轮转
	0.050	MTS2520								41	
	0.063	MTS2516								48	
	2mm	MTS25x1M								53	
	3mm	MTS3-25x1M								62	
	0.125	MTS2-2516								64	
	0.200	MTS4-2520								72	
5/16"	0.25	MTS4-2516	0.500	0.750	1.000	0.140	0.150	0.75	50 lbs	76	Free Wheeling 自由 轮转
	0.500	MTS7-2514								81	
	0.083	MTS3112								49	
	0.167	MTS2-3112								65	
	0.250	MTS2-3108								72	
7/16" *	0.500	MTS4-3108	0.500	0.750	1.000	0.140	0.150	0.75	50 lbs	80	Free Wheeling 自由 轮转
	1.000	MTS8-3108								81	

◆ **MTS** – 3/8" to 7/16" (12MM) Diameter
 MTS – 3/8英寸至7/16英寸(12毫米)直径



Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸						Design Load 设计 载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	D	E	F	BCD			
3/8" *	0.050	MTS3720	0.710	1.500	1.500	0.200	0.200	1.125	60 lbs	32	Free Wheeling 自由 轮转
	0.063	MTS3716								36	
	2mm	MTS37x2M								42	
	0.083	MTS3712								44	
	0.100	MTS3710								49	
	0.125	MTS3708								53	
	0.167	MTS2-3712								60	
	0.200	MTS2-3710								65	
	0.250	MTS2-3708								68	
	0.300	MTS3-3710								73	
	0.375	MTS4-3711								75	
	0.500	MTS4-3708								79	
	1.000	MTS5-3705								82	
10mm *	2mm	MTS10x2M	0.710	1.500	1.500	0.200	0.200	1.125	75 lbs	41	Free Wheeling 自由 轮转
	3mm	MTS10x3M								53	
	4mm	MTS2-10x2M								59	
	5mm	MTS2-10x2.5M								64	
	6mm	MTS4-10x1.5M								67	
	10mm	MTS5-10x2M								76	
	12mm	MTS5-10x2.4M								78	
	20mm	MTS6-10x3.3M								81	
	35mm	MTS10-10x3.5M								81	
	7/16" *	0.125								MTS2-4316	
0.250		MTS2-4308	65								
0.500		MTS4-4308	76								

*Comes with tri-flange. 均配以三角法兰。

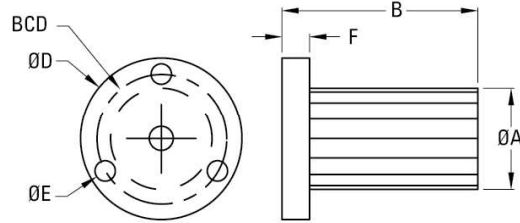
Screws
螺絲

Screws
螺絲

Flange Mount Nut

法兰安装型螺母

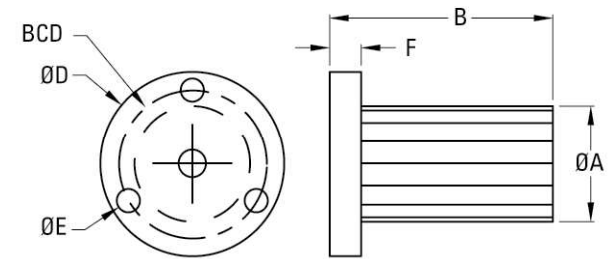
◆ MTS – 1/2" (12mm) to 5/8" Diameter
 MTS – 1/2英寸(12毫米)至5/8英寸直径



MTS 12mm to 5/8" (16mm)

Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸						Design Load 设计 载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	D	E	F	BCD			
12mm	3mm	MTS12x3M	0.750	1.500	1.500	0.200	0.250	1.125	125 lbs	48	Free Wheeling 自由 轮转
	4mm	MTS2-12x2M								54	
	5mm	MTS2-12x2.5M								59	
	6mm	MTS3-12x2M								63	
	10mm	MTS4-12x2.5M								73	
	15mm	MTS6-12x2.5M								78	
	25mm	MTS10-12x2.5M								82	
	45mm	MTS15-12x3M								81	
1/2"	0.0625	MTS5016	0.750	1.500	1.500	0.200	0.250	1.125	150 lbs	30	Free Wheeling 自由 轮转
	0.100	MTS5010								41	
	4mm	MTS2-50x2M								52	
	0.200	MTS2-5010								57	
	0.250	MTS2-5008								62	
	0.500	MTS4-5008								75	
	0.800	MTS8-5010								80	
	1.000	MTS8-5008								81	
1.500	MTS12-5008	82									
5/8"	0.100	MTS6210	0.880	1.630	1.500	0.200	0.300	1.188	175 lbs	35	Free Wheeling 自由 轮转
	0.125	MTS6208								40	
	0.200	MTS2-6210								51	
	0.250	MTS2-6208								57	
	0.500	MTS4-6208								71	

◆ MTS – 16mm to 3/4" (20mm) Diameter
 MTS – 16毫米至3/4英寸(20毫米)直径



MTS 3/4" (20mm)

Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸						Design Load 设计 载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	D	E	F	BCD			
16mm	4mm	MTS16x4M	0.880	1.630	1.500	0.200	0.300	1.188	175 lbs	47	Free Wheeling 自由 轮转
	5mm	MTS2-16x2.5M								52	
	8mm	MTS4-16x2M								63	
	16mm	MTS7-16x2.3M								75	
	25mm	MTS5-16x5M								80	
	35mm	MTS7-16x5M								82	
3/4"	0.100	MTS7510	1.125	1.750	2.000	0.200	0.300	1.438	275 lbs	31	Free Wheeling 自由 轮转
	0.125	MTS7508								36	
	0.167	MTS7506								44	
	0.200	MTS7505								49	
	0.500	MTS5-7510								69	
	1.000	MTS8-7508								79	
	1.500	MTS12-7508								81	
2.000	MTS10-7505	82									
20mm	4mm	MTS20x4M	1.125	1.750	2.000	0.200	0.300	1.438	275 lbs	41	Free Wheeling 自由 轮转
	8mm	MTS2-20x4M								59	
	12mm	MTS3-20x4M								67	
	16mm	MTS4-20x4M								72	
	20mm	MTS5-20x4M								76	
	45mm	MTS9-20x5M								82	
50mm	MTS10-20x5M	82									

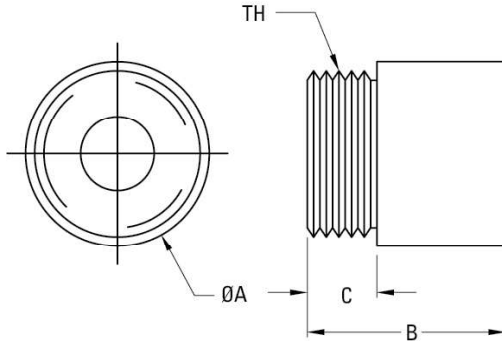
Screws
螺絲

Screws
螺絲

Thread Mount Nut

螺纹安装型螺母

◆ **SN Thread Mount** – 3/16" to 5/16" Diameter*
 SN 螺纹安装 – 3/16英寸至5/16英寸直径*



Flanges 法兰

3/16" (英寸) to 1/4" (英寸)	F25
5/16" (英寸)	F37

Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸				Design Load 设计 载荷	Max Static Load 最大静 态载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	C	TH				
3/16"	0.050	SN1820X	0.625	0.500	0.187	9/16-18	30 lbs	150 lbs	49	F25
	0.125	SN3-1824X							70	
6mm	1mm	SN6x1M	0.625	0.500	0.187	9/16-18	30 lbs	150 lbs	37	F25
1/4"	0.031	SN2532X	0.625	0.500	0.187	9/16-18	45 lbs	225 lbs	30	F25
	0.050	SN2520X							41	
	0.063	SN2516X							48	
	2mm	SN2-25x1M							53	
	3mm	SN3-25x1M							62	
	0.125	SN2-2516X							64	
	0.200	SN4-2520X							72	
0.25	SN4-2516X	76								
0.500	SN7-2514X	81								
5/16"	0.083	SN3112X	0.750	0.750	0.250	5/8-18	70 lbs	350 lbs	49	F37
	0.167	SN2-3112X							65	
	0.250	SN2-3108X							72	
	0.500	SN4-3108X							80	
	1.000	SN8-3108X							81	

* For all sizes as stated in above table, the Drag Torque = Free Wheeling. 以上列表内所有尺寸的阻力矩均为自由轮转。

◆ **SN Thread Mount** – 3/8" to 7/16" (12mm) Diameter*
 SN 螺纹安装 – 3/8英寸至7/16英寸(12毫米)直径*

Flanges 法兰

3/8" (英寸) / 10mm(毫米)	F37
7/16" (英寸) / 12mm(毫米)	F50

* For all sizes as stated in above table, the Drag Torque = Free Wheeling.
 以上列表内所有尺寸的阻力矩均为自由轮转。

Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸				Design Load 设计 载荷	Max Static Load 最大静 态载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	C	TH				
3/8"	0.050	SN3720X	0.750	0.750	0.250	5/8-18	70 lbs	350 lbs	32	F37
	0.063	SN3716X							36	
	2mm	SN37x2M							42	
	0.083	SN3712X							44	
	0.100	SN3710X							49	
	0.125	SN3708X							53	
	0.167	SN2-3712X							60	
	0.200	SN2-3710X							65	
	0.250	SN2-3708X							68	
	0.300	SN3-3710X							73	
	0.375	SN4-3711X							75	
	0.500	SN4-3708X							79	
	1.000	SN5-3705X							82	
1.200	SN5-3704X	82								
10mm	2mm	SN10x2M	0.750	1.160	0.250	5/8-18	70 lbs	350 lbs	41	F37
	3mm	SN10x3M							53	
	4mm	SN2-10x2M							59	
	5mm	SN2-10x2.5M							64	
	6mm	SN4-10x1.5M							67	
	10mm	SN5-10x2M							76	
	12mm	SN5-10x2.4M							78	
	20mm	SN6-10x3.3M							81	
	35mm	SN10-10x3.5M							81	
7/16"	0.125	SN2-4316X	1.000	1.000	0.375	15/16-16	100 lbs	500 lbs	55	F50
	0.250	SN2-4308X							65	
	0.500	SN4-4308X							76	
12mm	3mm	SN12x3M	1.000	1.000	0.375	15/16-16	100 lbs	500 lbs	48	F50
	4mm	SN2-12x2M							54	
	5mm	SN2-12x2.5M							59	
	6mm	SN3-12x2M							63	
	10mm	SN4-12x2.5M							73	
	15mm	SN6-12x2.5M							78	
	25mm	SN10-12x2.5M							82	
	45mm	SN15-12x3M							81	

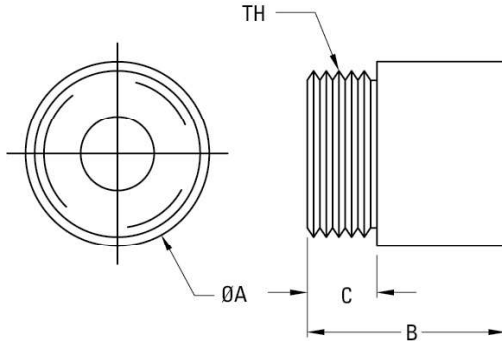
Screws
螺絲

Screws
螺絲

Thread Mount Nut

螺纹安装型螺母

◆ **SN Thread Mount** – 1/2" to 5/8" (16mm) Diameter*
 SN 螺纹安装 – 1/2英寸至5/8英寸(16毫米)直径*



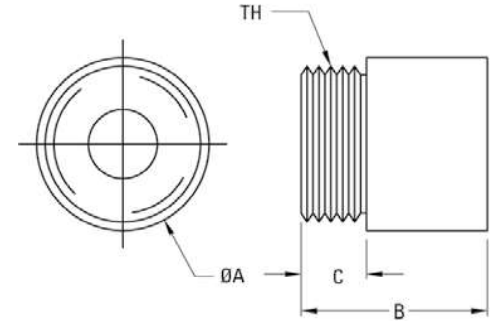
Flanges 法兰

1/2" (英寸) to 5/8" (英寸) / 16mm(毫米)	F50
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Dia. 直径	Lead 导程	Part. No. 产品编号	Nut Dimensions 螺母外形尺寸				Design Load 设计载荷	Max Static Load 最大静态载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	C	TH				
1/2"	0.0625	SN5016X	1.000	1.000	0.375	15/16-16	150 lbs	750 lbs	30	F50
	0.100	SN5010X							41	
	4mm	SN2-50x2M							52	
	0.200	SN2-5010X							57	
	0.250	SN2-5008X							62	
	0.500	SN4-5008X							75	
	0.800	SN8-5010X							80	
	1.000	SN8-5008X							81	
	1.500	SN12-5008X							82	
5/8"	0.100	SN6210X	1.000	1.000	0.375	15/16-16	160 lbs	800 lbs	35	F50
	0.125	SN6208X							40	
	0.200	SN2-6210							51	
	0.250	SN2-6208X							57	
	0.500	SN4-6208X							71	
16mm	4mm	SN16x4M	1.000	1.000	0.375	15/16-16	160 lbs	800 lbs	47	F50
	5mm	SN2-16x2.5M							52	
	8mm	SN4-16x2M							63	
	16mm	SN7-16x2.3M							75	
	25mm	SN5-16x5M							80	
	35mm	SN7-16x5M						82		

* For all sizes as stated in above table, the Drag Torque = Free Wheeling. 以上列表内所有尺寸的阻力矩均为自由轮转。

◆ **SN** – 3/4" to 1-1/2" Diameter*
 SN – 3/4英寸至1-1/2英寸直径*



Flanges 法兰

3/4" (英寸) to 1" (英寸)	F75
1-1/4" (英寸)	F100
1-1/2" (英寸)	R54-3

Dia. 直径	Lead 导程	Part. No. 产品编号	Nut Dimensions 螺母外形尺寸				Design Load 设计载荷	Max Static Load 最大静态载荷	Efficiency % 效率	Drag Torque oz-in 阻力矩 盎司-英寸
			A	B	C	TH				
3/4"	0.100	SN7510X	1.500	1.500	0.500	1-3/8-16	300 lbs	1500 lbs	31	F75
	0.125	SN7508X							36	
	1.500	SN12-7508X							44	
	0.167	SN7506X							49	
	0.200	SN7505X							69	
	0.500	SN5-7510X							79	
	1.000	SN8-7508X							81	
	2.000	SN10-7505X	82							
20mm	4mm	SN20x4M	1.500	1.500	0.500	1-3/8-16	300 lbs	1500 lbs	41	F75
	8mm	SN2-20x4M							59	
	12mm	SN3-20x4M							67	
	16mm	SN4-20x4M							72	
	20mm	SN5-20x4M							76	
	45mm	SN9-20x5M							82	
	50mm	SN10-20x5M	82							
24mm	5mm	SN24x5M	1.500	1.500	0.500	1-3/8-16	300 lbs	1500 lbs	42	F75
1"	0.100	SN1010X	1.500	1.500	0.500	1-3/8-16	400 lbs	2000 lbs	25	F75
	0.125	SN1008X							29	
	0.200	SN1005X							41	
	0.250	SN1004X							46	
	0.250	SN2-1008X							47	
	0.500	SN5-1010X							61	
	1.000	SN10-1010X	74							
1-1/4"	0.200	SN1205X	2.000	2.000	0.600	1-9/16-18	400 lbs	2000 lbs	35	F100
	0.200	SN2-1210X							35	
	0.250	SN1204X							41	
1-1/2"	0.200	SN1505X	2.000	2.000	0.530	1.967-18	400 lbs	2000 lbs	31	R54-3
	0.250	SN1504X							36	
	0.375	SN1503X							47	
	0.500	SN2-1504X							52	

* For all sizes as stated in above table, the Drag Torque = Free Wheeling. 以上列表内所有尺寸的阻力矩均为自由轮转。

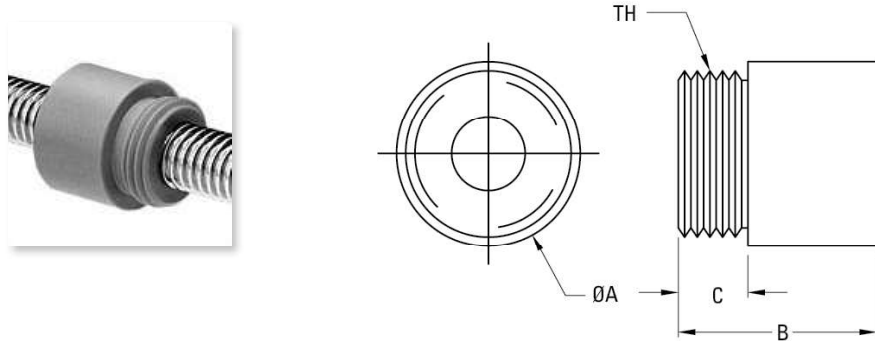
Screws 螺絲

Screws 螺絲

Metric Thread Mount Nut

公制螺纹安装型螺母

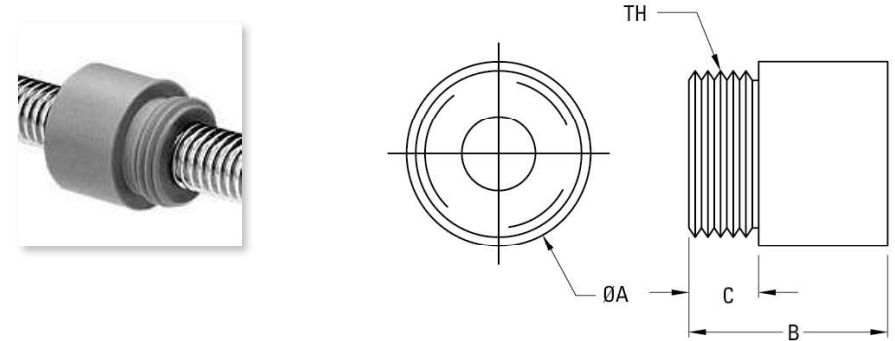
◆ **SB Metric Thread Mount** – 10mm to 12mm Diameter*
 SB 公制螺纹安装 – 10毫米至12毫米直径*



Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸				Design Load 设计 载荷	Max Static Load 最大静 态载荷	Efficiency % 效率
			A (mm)	B (mm)	C (mm)	TH			
10mm	2mm	SB10x2M	0.750 (19.1)	0.750 (19.1)	0.250 (6.5)	M16x1.5	70 (310)	350 (1550)	42
	3mm	SB10x3M							53
	4mm	SB2-10x2M							59
	5mm	SB2-10x2.5M							64
	6mm	SB4-10x1.5M							66
	10mm	SB5-10x2M							76
	12mm	SB5-10x2.4M							78
	20mm	SB6-10x3.3M							81
	35mm	SB10-10x3.5M							81
12mm	3mm	SB12x3M	1.000 (25.4)	1.000 (25.4)	0.375 (9.5)	M22x1.5	100 (445)	500 (2225)	48
	4mm	SB2-12x2M							54
	5mm	SB2-12x2.5M							59
	6mm	SB3-12x2M							63
	10mm	SB4-12x2.5M							73
	15mm	SB6-12x2.5M							78
	25mm	SB10-12x2.5M							82
	45mm	SB15-12x3M							81

* For all sizes as stated in above table, the Drag Torque = Free Wheeling. 以上列表内所有尺寸的阻力矩均为自由轮转。

◆ **SB Metric Thread Mount** – 16mm to 24mm Diameter*
 SB 公制螺纹安装 – 16毫米至24毫米直径*



Dia. 直径	Lead 导程	Part. No. 产品 编号	Nut Dimensions 螺母外形尺寸				Design Load 设计 载荷	Max Static Load 最大静 态载荷	Efficiency % 效率		
			A (mm)	B (mm)	C (mm)	TH					
16mm	4mm	SB16x4M	1.00 (25.4)	1.00 (25.4)	0.375 (9.5)	M22x1.5	160 (710)	800 (3560)	48		
	5mm	SB2-16x2.5M							52		
	8mm	SB4-16x2M							63		
	16mm	SB7-16x2.3M							75		
	25mm	SB5-16x5M							80		
	35mm	SB7-16x5M							82		
20mm	4mm	SB20x4M	1.500 (38.1)	1.500 (38.1)	0.500 (12.7)	M35x1.5	300 (1335)	1500 (6675)	42		
	8mm	SB2-20x4M							59		
	12mm	SB3-20x4M							67		
	16mm	SB4-20x4M							72		
	20mm	SB5-20x4M							76		
24mm	5mm	SB9-20x5M	1.500 (38.1)	1.500 (38.1)	0.500 (12.7)	M35x1.5	300 (1335)	1500 (6675)	82		
									50mm	SB10-20x5M	82
									SB24x5M	42	

* For all sizes as stated in above table, the Drag Torque = Free Wheeling. 以上列表内所有尺寸的阻力矩均为自由轮转。

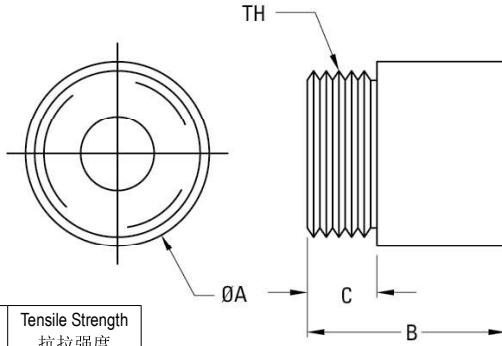
Screws
螺絲

Screws
螺絲

Thread Mount Bronze Nut

螺纹安装型青铜螺母

◆ Suitable for Acme Screws - 1/4" to 3/4" Diameter
适用于Acme丝杆 - 1/4英寸至3/4英寸直径

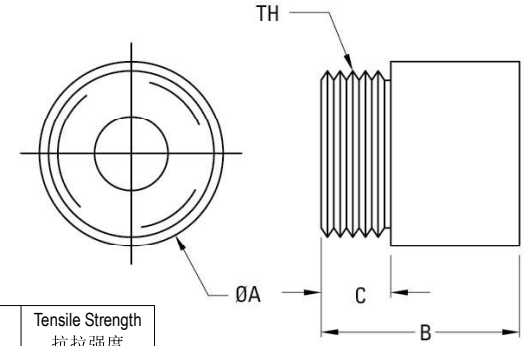


Material Properties 材质特质

Max. Temperature 最高温度	Friction Coefficient 摩擦系数	Material* 材质	Tensile Strength 抗拉强度
250°F	0.2 ~ 0.3	SAE 660	35,000 psi

* Other materials available on a custom basis. 可提供青铜定制材料。

◆ Suitable for Acme Screws - 1" to 3" Diameter
适用于Acme丝杆 - 1英寸至3英寸直径



Material Properties 材质特质

Max. Temperature 最高温度	Friction Coefficient 摩擦系数	Material* 材质	Tensile Strength 抗拉强度
250°F	0.2 ~ 0.3	SAE 660	35,000 psi

* Other materials available on a custom basis. 可提供青铜定制材料。

Dia. 直径	Lead 导程	Nut Part. No. for R.H. Screws 右侧丝杠 的部件 编号	Nut Part. No. for L.H. Screws 左侧丝杠 的部件 编号	Bronze Nut Dimensions 青铜螺母外形尺寸				Fits Flange No. 匹配的 法兰编 号	Design Load 设计 载荷	Max Static Load 最大静 态载荷	Torque to raise 1 Pound (oz-in) 提升1磅 的力矩 盎司-英寸
				A	B	C	TH				
1/4"	0.050	BN2520	BN2520L	0.625	0.625	0.187	9/16-18	F25	110 lbs	550 lbs	0.41
	0.0625	BN2516	-								0.43
	0.250	BN4-2516	-								1.00
3/8"	0.0625	BN3716	-	0.750	0.750	0.250	5/8-18	F37	300 lbs	1500 lbs	0.61
	0.083	BN3712	BN3712L								0.64
	0.100	BN3710	BN3710L								0.67
	0.125	BN3708S	-								0.76
	0.167	BN2-3712S	-								0.86
1/2"	0.100	BN5010	BN5010L	1.000	1.000	0.375	15/16-16	F50	620 lbs	3100 lbs	0.83
	0.200	BN2-5010	-								1.10
5/8"	0.100	BN6210	BN6210L	1.000	1.000	0.375	15/16-16	F50	860 lbs	4300 lbs	0.99
	0.125	BN6208S	-								1.06
	0.200	BN2-6210	-								1.26
3/4"	0.100	BN7510	BN7510L	1.500	1.500	0.500	1-3/8-16	F75	1500 lbs	7500 lbs	1.15
	0.125	BN7508	-								1.21
	0.167	BN7506	BN7506L								1.28
	0.200	BN7505	BN7505L								1.35

Dia. 直径	Lead 导程	Nut Part. No. for R.H. Screws 右侧丝杠 的部件 编号	Nut Part. No. for L.H. Screws 左侧丝杠 的部件 编号	Bronze Nut Dimensions 青铜螺母外形尺寸				Fits Flange No. 匹配的 法兰编 号	Design Load 设计 载荷	Max Static Load 最大静 态载荷	Torque to raise 1 Pound (oz-in) 提升1磅 的力矩 盎司-英寸
				A	B	C	TH				
1"	0.100	BN1010	-	1.500	1.500	0.500	1-3/8-16	F75	1900 lbs	9500 lbs	1.47
	0.125	BN1008	-								1.52
	0.200	BN1005	-								1.67
	0.250	BN1004	-								1.76
	0.500	BN5-1010	-								2.55
1-1/4"	0.200	BN1205*	-	1.750	1.750	0.625	1-9/16-18	R1004-3	3000 lbs	15000 lbs	1.99
	0.250	BN1204*	-								2.09
1-1/2"	0.200	BN1505*	-	2.250	2.250	0.530	1-9/16-18	R54-3	4600 lbs	23000 lbs	2.31
	0.250	BN1504*	-								2.41
	0.375	BN1503*	-								2.56
	0.500	BN2-1504*	-								3.08
2"	0.250	BN2004*	-	2.750	3.500	0.780	2.548-18	R50-3	8000 lbs	40000 lbs	3.04
2-1/4"	0.250	BN2204*	-	3.370	3.000	1.560	3.137-12	R2202-3	12800 lbs	64000 lbs	3.70
2-1/2"	0.250	BN2504*	-	3.370	3.000	1.560	3.137-12	R2202-3	16000 lbs	80000 lbs	3.90
2-3/4"	0.250	BN2704*	-	4.000	4.000	1.750	3.625-12	R2501-3	20000 lbs	100000 lbs	4.20
3"	0.250	BN3004*	-	4.000	4.000	1.750	3.625-12	R2501-3	23000 lbs	115000 lbs	4.50

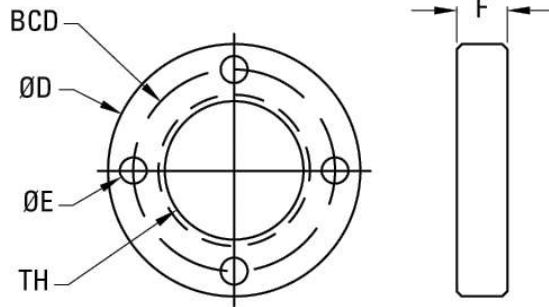
Standard Mounting Flange

标准型法兰

- ◆ Easy mounting for standard & bronze nuts
易于安装在普通及青铜螺母



Material : Aluminum 6061-T6
材质: 铝合金 6061-T6



Part No. 产品编号	Flange Dimensions 法兰外形尺寸				
	D	E	F	BCD	TH
F25	1.25	0.140 (4X)	0.187	1.00	9/16-18
F37	1.60	0.177 (4X)	0.250	1.24	5/8-18
F50	2.00	0.266 (4X)	0.375	1.50	15/16-16
F75	2.50	0.266 (4X)	0.500	2.00	1-3/8-16
F100	3.00	0.266 (4X)	0.600	2.37	1-9/16-18

Ball Screws & Support Units

滚珠螺杆与支撑座



Features/Advantages

- ▶ **High Reliability**
HISAKA has very stringent quality control standards covering every production process. With proper lubrication and use, trouble-free operation for an extended period of time is possible.
- ▶ **Smooth Operation**
The high efficiency of ball screw is vastly superior to conventional screws. The torque required is less than 30%. Linear motion can be easily changed from rotary motion.
- ▶ **High Rigidity and Preload**
The axial play in precision ball screws may be reduced to zero by preloading and a light smooth operation is still possible. Therefore, both low torque and high rigidity can be obtained simultaneously. Adopting Gothic arch groove profiles allow these conditions to be achieved.
- ▶ **Circulation Method**
Ball return tube method and ball deflector method are available.
- ▶ **High Durability**
Rigidly selected materials, intensive heat treating and processing techniques, backed by years of experience, have resulted in the most durable ball screws manufactured.

特点/优点

- ▶ **高信赖性**
HISAKA滚珠螺杆是以多年来所累积的制品技术为基础, 从材料、热处理、制造、检查至出货, 都是以严谨的品保质度来加以管理, 因此具有高信赖性。
- ▶ **圆滑的动作性**
具有比滑动螺杆更高的效率, 所需扭矩只有30%以下。可轻易将直线运动变换为回转运动。滚珠螺杆即使给予预压, 亦能维持圆滑的动作性。
- ▶ **无背隙与高刚性**
采用哥德式沟槽形状、轴方向间隙调整至极小亦能轻易转动。又于1个或2个螺帽间做预压调整, 予消除轴方向间隙, 使其具有可符合使用条件的适当刚性。
- ▶ **循环方式**
外循环和内循环两种方式
- ▶ **优异的耐久性**
以累积多年的滚珠螺杆之生产技术为基础, 采用严谨的材料藉高度热处理及加工技术, 可供持久性的品。

Ball Screws

滚珠螺杆

◆ Technological Description of Ball Screw 滚珠螺杆技术解说

1.1 Lead / Travel accuracy 精度设计

1.1.1 Lead / Travel accuracy 导程精度

- Lead accuracy of HISAKA ball screws (grade C0~C5) is specified in 4 basic terms ($E, e, e_{300}, e_{2\pi}$). There are defined in Fig. 1.1 Tolerance of deviation ($\pm E$) and variation (e) of accumulated reference travel are shown in Table 1.2 and 1.3.
- Accumulated travel deviations for grade C7 and C10 are specified only by the allowable value per 300mm measured within any portion of the thread length. They are 0.05mm for C7 and 0.21mm for C10.
- 精密滚珠螺杆 (C0~C5级) 的导程精度, 以JIS规格为基准, 并由4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及1.2~1.3所示。
- 一般滚珠螺杆C7与C10之累积导程误差, 则仅在螺杆部之有效长度内任取300mm的误差容许值, 如表1.3之 e_{300} 加以规定, 各为0.05mm及0.21mm。

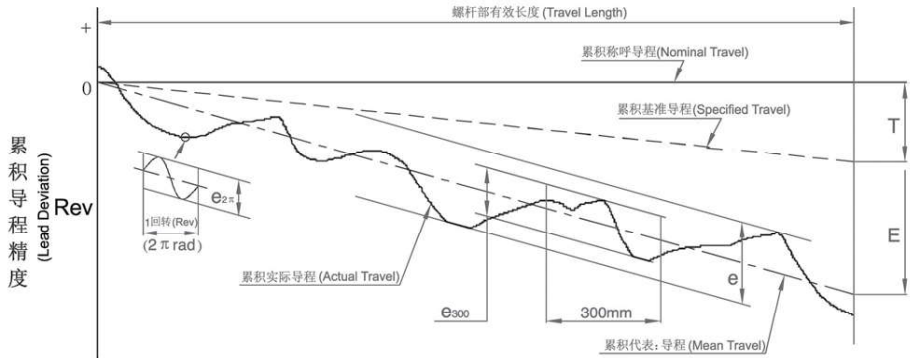


图 1.1 导程精度之说明图 Diagram of Lead Accuracy

Ball Screws

滚珠螺杆

◆ Technological Description of Ball Screw 滚珠螺杆技术解说

1.1 Lead / Travel accuracy 精度设计

◆ Table (表) 1.1

Definition of Terms for Lead Accuracy 导程精度的用语

Term 用语	Reference 记号	Definition 定义	Allowable 容许值
Travel Compensation 累积导程之目标值	T	Travel Compensation is the difference between specified and nominal travel within the useful travel. A slightly smaller value compared to the nominal travel if often selected by the customer to compensate for an expected elongation caused by temperature rise of external load. Therefore, "T" is usually a negative value. Note: If no compensation is needed, specified travel is the same as the nominal travel. 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, 并据此制作螺杆。其值依试验或经验而定。 注: 若无需补正差异, 累积基准导程等于累积公称导程。	
Actual Travel 累积实际导程		Actual Travel is the axial displacement of the nut relative to the screw shaft. 实际测定之累积导程。	
Mean Travel 累积代表导程		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. 代表累计实际导程倾向的直线, 由累计实际导程曲线藉最小二乘法或类似方法, 所求得之直线。	
Mean Travel Deviation 累积代表导程之误差	E	Mean Travel Deviation is the difference between mean travel and specified travel within travel length. 累积代表导程减累积基准导程的值。	Table (表) 1.2
Travel Variation 导程变动	e e ₃₀₀ e _{2π}	Travel Variation is the band of 2 lines drawn parallel to the mean travel, on the plus and minus side. * Maximum width of variation over the travel length. * Actual width of variation for the length of 300mm taken anywhere within the travel length. * Wobble error, actual width of variation for one revolution (2π). 与累积代表导程平行画出的2直线所夹之累积实际导程之最大幅度, 由下列3项加以规定。 * 在有效螺纹长度范围内的最大幅度。 * 在有效螺纹长度范围内任取300mm的最大幅度。 * 螺杆轴转动1圈的范围内, 螺帽对应于任意的回转角的轴方向移动量的实测值与基准值的最大幅度。	Table (表) 1.2 Table (表) 1.3 Table (表) 1.3

Ball Screws

滚珠螺杆

◆ Table (表) 1.2

Mean Travel Deviation ($\pm E$) and Travel Variation (e) [JIS B 1192]
累积代表导程误差 ($\pm E$) 与变动(e) 之容许值 [JIS B 1192]

Unit: μm / 单位: 微米

有效 螺 纹 长 度 Travel Length (mm)	精度等级 (Grade)		C0		C1		C2		C3		C5		C7	C10
	以上 Over	以下 Incl	$\pm E$	e	$\pm E$	e	$\pm E$	e	$\pm E$	e	$\pm E$	e	e	e
	100		3	3	3.5	5	5	7	8	8	18	18	± 50 /300mm	± 210 /300mm
	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		
	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		

◆ Table (表) 1.3

Variation per 300mm (e_{300}) and Wobble Error ($e_{2\pi}$) [JIS B 1192]
对螺纹部长度300mm之变动(e_{300})与摇摆($e_{2\pi}$)之容许值 [JIS B 1192]

Unit: μm / 单位: 微米

精度等级 (Grade)	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		

Ball Screws

滚珠螺杆

1.1.2 Axial Play 轴方向间隙

◆ Table (表) 1.4

Combination of Accuracy Grade and Axial Play 轴方向间隙预压等级

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)

* Guidelines for selecting Accuracy, Preload, Axial Play, Nut & Screw Shaft
轴选定精度、间隙、预压等级及螺帽之参考表

精度 Accuracy	预压及间隙 Preload and Axial Play	螺帽形式 Nut Type	螺 杆 形 式 Screw Shaft Type
C10	(P0) 有间隙 P0 (With Axial Play)	单螺帽 Single Nut	转造级螺杆 Rolled Screw Shaft
C7	(P1或P0) HISAKA标准为 (P1) P1 or P0 HISAKA Standard is P1	依客户要求 According to the demand of customers	转造或研磨级 (HISAKA 标准为研磨级) Rolled or Ground (HISAKA Standard is Ground)
C5	依客户要求制造, 若无要求, HISAKA 标准为 (P2) According to the demand of customers. If no idea, HISAKA Standard is P2	依客户要求 According to the demand of customers	研磨级附导测表 Ground Screw Shaft with Lead Error Inspection Certificate
C3	依客户要求制造, 若无要求, HISAKA 标准为 (P2) According to the demand of customers. If no idea, HISAKA Standard is P2	依客户要求 According to the demand of customers	研磨级附导测表 Ground Screw Shaft with Lead Error Inspection Certificate

* Axial Play (P0) / 间隙 (P0)

* Clearance in the Axial Direction of the Rolled and Round Ball Screw
转造级及研磨级滚珠螺杆 (P0) 最大轴向间隙

Unit: mm / 单位: 毫米

螺杆外径尺寸 Screw Shaft OD	转造级滚珠螺杆最大轴向间隙 Rolled Ball Screw Clearance in the Axial Direction (max.)	研磨级滚珠螺杆最大轴向间隙 Ground Ball Screw Clearance in the Axial Direction (max.)
$\phi 04 \sim \phi 14$ 微型滚珠螺杆 miniature ball screw	0.05	0.015
$\phi 15 \sim \phi 40$ 中尺寸滚珠螺杆 middle size of ball screw	0.08	0.025
$\phi 50 \sim \phi 100$ 大尺寸滚珠螺杆 big size of ball screw	0.12	0.05

Ball Screws

滚珠螺杆

* No Backlash, No Preload (P1)

无间隙、无预压 (P1)

* Spring Force of Light Preload (P2)

常用之预压 (P2) 参考值

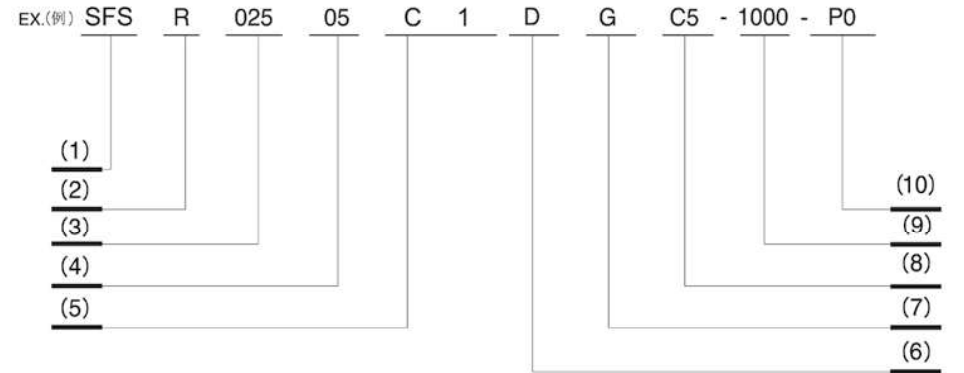
规格 Model No.	单螺帽弹簧力 (Kg) Spring Force (Kg) Single Nut	双螺帽弹簧力 (Kg) Spring Force (Kg) Double Nut
1605	0.1~0.3	0.3~0.6
2005	0.1~0.3	0.3~0.6
2505	0.2~0.5	0.3~0.6
3205	0.2~0.5	0.5~0.8
4005	0.2~0.5	0.5~0.8
2510	0.2~0.5	0.5~0.8
3210	0.3~0.6	0.5~0.8
4010	0.3~0.6	0.5~0.8
5010	0.3~0.6	0.8~1.2
6310	0.6~1.0	0.8~1.2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

Ball Screws

滚珠螺杆

◆ Specification Number 滚珠螺杆公称代号

标准精密组合品 Model-number coding



(1) 螺帽型号 Nut type codes

S | S: 单螺帽 Single nut
D: 双螺帽 Double nut

F | F: 有法兰 With flange
C: 无法兰 Without flange

S | S: S型螺帽 S type nut (高速静音型 High Speed Low Noise)
K: K型螺帽 K type nut (微型 Miniature Series)
E: E型螺帽 E type nut (高导程 Long Lead)
V: V型螺帽 V type nut (高速重载 High Speed Heavy Load)

(SFI、DFI、SFT、DFT、SFE、SFK、BSH)

(2) 螺纹方向 Direction of helix

R: 右 L: 左 R: Right L: Left

(3) 螺杆轴外径(mm) Shaft dia. (mm)

(4) 导程 (mm) Lead(mm)

(5) 珠卷数 (卷数X行数) No. of Turn (Circuits) or Turn x Row

卷数: T:1 A:1.5(or 1.7) B:2.5 C:3.5 例: (B2=2.5x2)
(Turn) ax

(6) 法兰型式 Flange type

N: 无切边 S: 单切边 D: 双切边 N: Not cutting S: Single cutting D: Double cutting

(7) 导程代号 Produce code

G: 研磨 F: 转造 G: Grinding F: Rolled

(8) 导程精度等级 Accuracy grade code

C0、C1、C2、C3、C5、C7、C10

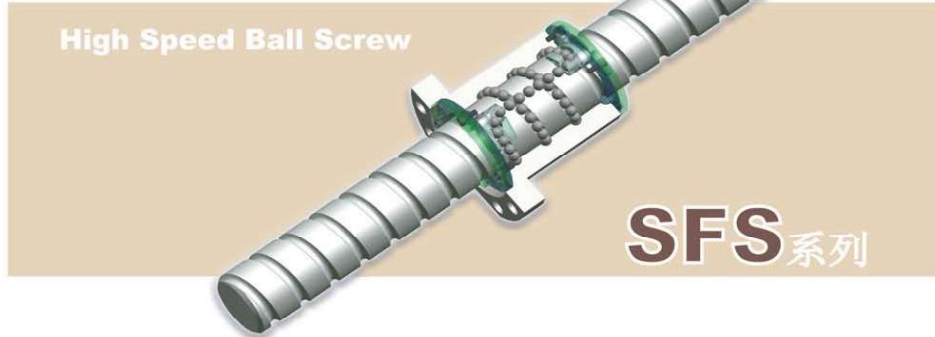
(9) 螺杆轴全长(mm) Overall length of shaft(mm)

(10) 轴方向间隙预压等级 Axial clearance and preload code

P0、P1、P2、P3、P4

Ball Screws

滚珠螺杆



High Speed Ball Screw

SFS系列

调整静音型滚珠螺杆
High-Speed Low Noise Ball Screw

产品用途
Product Application

螺帽尺寸Nut Dimension

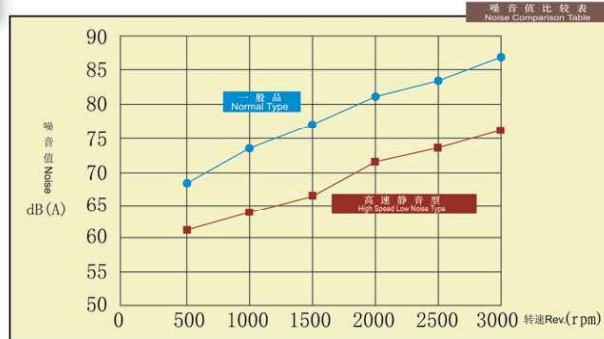


30% smaller

新型SFS2505螺帽与本公司外循环SFT螺帽比较

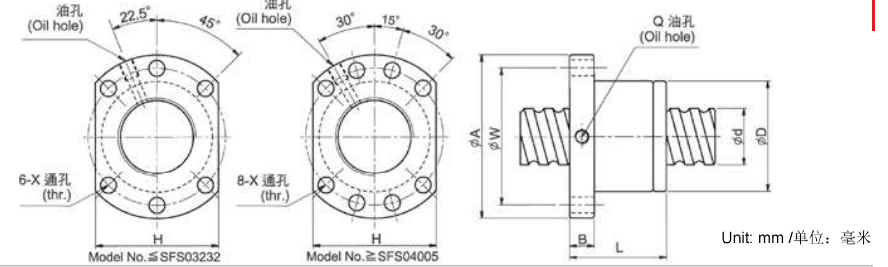
产品性能
Product Performance

规格Model: SFSR03205C1DGC5-960
导程Lead: 5mm
加速度Accelerated Speed: 9.8m/sec2



- 精密工具机 Precision Tool Machinery
- 产业机械 Industrial Machinery
- 电子机械 Electronic Machinery
- 传动机械 Transmission Machinery

◆ Type: SFS (DIN 69051 FORM B) - High Speed
款型: SFS (DIN 69051 FORM B) - 高速静音

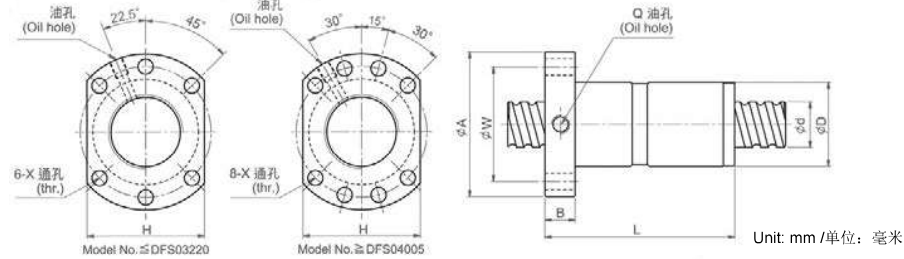


• l: Lead 导程 • Da: Ball Diameter 珠径 • n: No. of Circuits 珠圈数 • K: Stiffness (kgf/μm) 刚性
• Ca: Basic Dynamic Rating Load (Kgf) 动额定负荷 • Coa: LBasic Static Rating Load (kgf) 静额定负荷

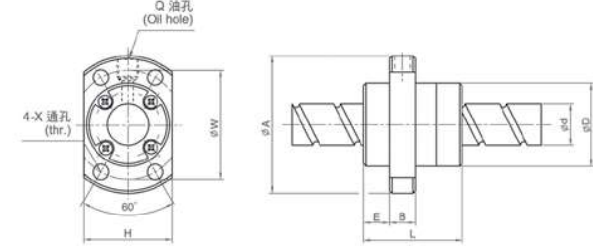
型号 Model No.	滚珠螺杆、螺帽之基准数据 Dimensions														
	d	l	Da	D	A	B	L	W	H	X	Q	n	Ca	Coa	K
SFS01205-2.8	12	5	2.5	24	40	10	31	32	30	4.5		2.8x1	661	1316	19
SFS01210-2.8	12	10	2.5	24	40	10	48.5	32	30	4.5		2.8x1	642	1287	19
SFS01605-3.8	15	5	2.778	28	48	10	38	38	40	5.5	M6	3.8x1	1112	2507	30
SFS01610-2.8	15	10	2.778	28	48	10	47	38	40	5.5	M6	2.8x1	839	1821	23
SFS01616-1.8	15	16	2.778	28	48	10	45	38	40	5.5	M6	1.8x1	552	1137	14
SFS01616-2.8	15	16	2.778	28	48	10	61	38	40	5.5	M6	2.8x1	808	1769	22
SFS01620-1.8	15	20	2.778	28	48	10	57	38	40	5.5	M6	1.8x1	554	1170	14
SFS02005-3.8	20	5	3.175	36	58	10	40	47	44	6.6	M6	3.8x1	1484	3681	37
SFS02006-4.8	20	6	3.175	36	58	10	50	47	44	6.6	M6	4.8x1	1811	4644	47
SFS02008-4.8	20	8	3.175	36	58	10	60	47	44	6.6	M6	4.8x1	1863	4861	50
SFS02010-3.8	20	10	3.175	36	58	10	60	47	44	6.6	M6	3.8x1	1516	3833	40
SFS02020-1.8	20	20	3.175	36	58	10	57	47	44	6.6	M6	1.8x1	764	1758	19
SFS02020-2.8	20	20	3.175	36	58	10	77	47	44	6.6	M6	2.8x1	1118	2734	29
SFS02505-3.8	25	5	3.175	40	62	10	40	51	48	6.6	M6	3.8x1	1650	4658	43
SFS02506-4.8	25	6	3.175	40	62	10	50	51	48	6.6	M6	4.8x1	2015	5879	55
SFS02508-4.8	25	8	3.175	40	62	10	60	51	48	6.6	M6	4.8x1	2009	5867	56
SFS02510-3.8	25	10	3.175	40	62	12	62	51	48	6.6	M6	3.8x1	1638	4633	45
SFS02525-1.8	25	25	3.175	40	62	12	70	51	48	6.6	M6	1.8x1	843	2199	22
SFS02525-2.8	25	25	3.175	40	62	12	95	51	48	6.6	M6	2.8x1	1232	3421	34
SFS03205-3.8	32	5	3.175	50	80	12	42	65	62	9	M6	3.8x1	1839	6026	51
SFS03206-4.8	32	6	3.175	50	80	12	51	65	62	9	M6	4.8x1	2247	7608	65
SFS03208-4.8	32	8	3.969	50	80	12	62	65	62	9	M6	4.8x1	3015	9181	68
SFS03210-3.8	32	10	3.969	50	80	13	62	65	62	9	M6	3.8x1	2460	7255	55
SFS03220-2.8	32	20	3.969	50	80	12	80	65	62	9	M6	2.8x1	1907	5482	43
SFS03232-1.8	32	32	3.969	50	80	13	84	65	62	9	M6	1.8x1	1257	3426	27
SFS03232-2.8	32	32	3.969	50	80	13	116	65	62	9	M6	2.8x1	1838	5329	42
SFS04005-3.8	40	5	3.175	63	93	15	45	78	70	9	M8	3.8x1	2018	7589	60
SFS04006-4.8	40	6	3.175	63	93	14	50	78	70	9	M6	4.8x1	2467	9583	77
SFS04008-4.8	40	8	3.969	63	93	14	61	78	70	9	M6	4.8x1	3327	11491	81
SFS04010-3.8	40	10	6.35	63	93	14	63	78	70	9	M8	3.8x1	5035	13943	67
SFS04020-2.8	40	20	6.35	63	93	14	82	78	70	9	M8	2.8x1	3959	10715	54
SFS04040-1.8	40	40	6.35	63	93	15	105	78	70	9	M8	1.8x1	2585	6648	34
SFS04040-2.8	40	40	6.35	63	93	15	145	78	70	9	M8	2.8x1	3780	10341	52
SFS05005-3.8	50	5	3.175	75	110	15	45	93	85	11	M8	3.8x1	2207	9542	68
SFS05010-3.8	50	10	6.35	75	110	18	68	93	85	11	M8	3.8x1	5638	17852	79
SFS05012-3.8	50	12	6.35	75	110	18	75	93	85	11	M8	3.8x1	5632	17836	81
SFS05020-3.8	50	20	6.35	75	110	18	108	93	85	11	M8	3.8x1	5749	18485	87
SFS05050-1.8	50	50	6.35	75	110	18	125	93	85	11	M8	1.8x1	2946	8749	42
SFS05050-2.8	50	50	6.35	75	110	18	175	93	85	11	M8	2.8x1	4308	13610	65
SFS06310-3.8	61	10	6.35	90	125	18	70	108	95	11	M8	3.8x1	6343	23308	94
SFS06316-3.8	61	16	6.35	90	125	18	95	108	95	11	M8	3.8x1	6327	23262	100
SFS06320-3.8	61	20	7.144	95	135	20	116	115	100	13.5	M8	3.8x1	7493	26424	105
SFS08010-3.8	77	10	6.35	105	145	20	70	125	110	13.5	M8	3.8x1	6980	29563	105
SFS08020-3.8	77	20	9.525	125	165	25	120	145	130	13.5	M8	3.8x1	12145	43598	128
SFS10020-3.8	96	20	12.7	150	202	30	124	176	155	17.5	M8	3.8x1	19633	71408	152

Note: Those marked with * can be produced in left helix. / 注: 有标注*可制作左螺纹。

◆ Type: **DFS (DIN 69051 FORM B) - High Speed**
 款型: **DFS (DIN 69051 FORM B) - 高速静音型**



◆ Type: **SFE - Long Lead**
 款型: **SFE - 高导程**



• l: Lead 导程 • Da: Ball Diameter 珠径 • n: No. of Circuits 珠圈数 • K: Stiffness (kgf/μm) 刚性
 • Ca: Basic Dynamic Rating Load (Kgf) 动额定负荷 • Coa: LBasic Static Rating Load (kgf) 静额定负荷

• l: Lead 导程 • Da: Ball Diameter 珠径 • n: No. of Circuits 珠圈数 • K: Stiffness (kgf/μm) 刚性
 • Ca: Basic Dynamic Rating Load (Kgf) 动额定负荷 • Coa: LBasic Static Rating Load (kgf) 静额定负荷

型号		滚珠螺杠、螺帽之基准数据 Dimensions													
Model No.	d	l	Da	D	A	B	L	W	H	X	Q	n	Ca	Coa	K
DFS01605-3.8	15	5	2.778	28	48	10	73	38	40	5.5	M6	3.8x1	1112	2507	41
DFS01610-2.8	10	2.778	28	48	10	97	38	40	5.5	M6	2.8x1	839	1821	31	
DFS02005-3.8	5	3.175	36	58	10	75	47	44	6.6	M6	3.8x1	1484	3681	50	
DFS02006-4.8	6	3.175	36	58	10	98	47	44	6.6	M6	4.8x1	1811	4644	63	
DFS02008-4.8	8	3.175	36	58	10	116	47	44	6.6	M6	4.8x1	1863	4861	66	
DFS02010-3.8	10	3.175	36	58	10	120	47	44	6.6	M6	3.8x1	1516	3833	53	
DFS02505-3.8	5	3.175	40	62	10	75	51	48	6.6	M6	3.8x1	1650	4658	59	
DFS02506-4.8	6	3.175	40	62	10	98	51	48	6.6	M6	4.8x1	2015	5879	75	
DFS02508-4.8	8	3.175	40	62	10	116	51	48	6.6	M6	4.8x1	2009	5867	76	
DFS02510-3.8	10	3.175	40	62	12	122	51	48	6.6	M6	3.8x1	1638	4633	61	
DFS03205-3.8	5	3.175	50	80	12	82	65	62	9	M6	3.8x1	1839	6026	71	
DFS03206-4.8	6	3.175	50	80	12	99	65	62	9	M6	4.8x1	2247	7608	90	
DFS03208-4.8	8	3.969	50	80	12	126	65	62	9	M6	4.8x1	3015	9181	92	
DFS03210-3.8	10	3.969	50	80	13	122	65	62	9	M6	3.8x1	2460	7255	75	
DFS03220-2.8	20	3.969	50	80	12	160	65	62	9	M6	2.8x1	1907	5482	58	
DFS04005-3.8	5	3.175	63	93	15	85	78	70	9	M8	3.8x1	2018	7589	83	
DFS04006-4.8	6	3.175	63	93	14	98	78	70	9	M6	4.8x1	2467	9583	106	
DFS04008-4.8	8	3.969	63	93	14	125	78	70	9	M6	4.8x1	3327	11491	110	
DFS04010-3.8	10	6.35	63	93	14	123	78	70	9	M8	3.8x1	5035	13943	91	
DFS04020-2.8	20	6.35	63	93	14	162	78	70	9	M8	2.8x1	3959	10715	73	
DFS05005-3.8	5	3.175	75	110	15	85	93	85	11	M8	3.8x1	2207	9542	96	
DFS05010-3.8	10	6.35	75	110	18	138	93	85	11	M8	3.8x1	5638	17852	109	
DFS05012-3.8	12	6.35	75	110	18	147	93	85	11	M8	3.8x1	5632	17836	110	
DFS05020-3.8	20	6.35	75	110	18	218	93	85	11	M8	3.8x1	5749	18485	116	
DFS06310-3.8	10	6.35	90	125	18	140	108	95	11	M8	3.8x1	6343	23308	130	
DFS06316-3.8	16	6.35	90	125	18	191	108	95	13.5	M8	3.8x1	6327	23262	136	
DFS06320-3.8	20	7.144	95	135	20	226	115	100	13.5	M8	3.8x1	7493	26424	142	
DFS08010-3.8	10	6.35	105	145	20	140	125	110	13.5	M8	3.8x1	6980	29563	149	
DFS08020-3.8	20	9.525	125	165	25	230	145	130	13.5	M8	3.8x1	12145	43598	174	
DFS10020-3.8	96	20	12.7	150	202	30	244	176	155	17.5	M8	3.8x1	19633	71408	208

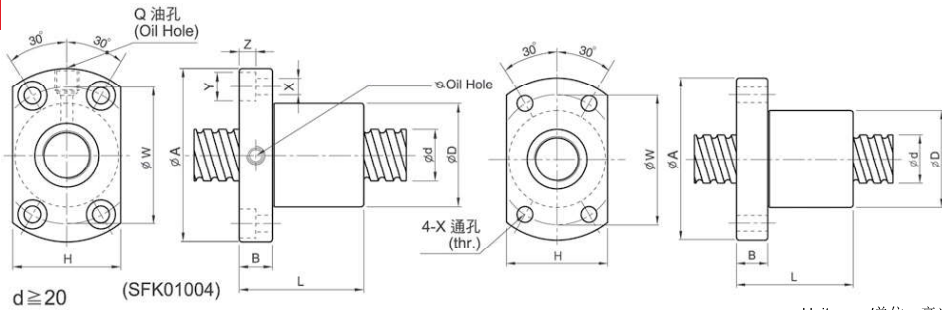
Note: Those marked with * can be produced in left helix. / 注: 有标注*可制作左螺纹。

型号		滚珠螺杠、螺帽之基准数据 Dimensions														
Model No.	d	l	Da	D	A	E	B	L	X	W	H	Q	n	Ca	Coa	K
SFE01616-3	16	16	2.778	32	53	10.1	10	38	4.5	42	34	M6	1.7x2	1021	2409	29
SFE01616-6	16	16	2.778	32	53	10.1	10	38	4.5	42	34	M6	1.7x4	1853	4818	57
SFE01632-3	16	32	3.175	34	55	10.5	10	34	5.5	45	36	M6	0.7x2	518	1094	11
SFE01632-6	32	3.175	34	55	10.5	10	34	5.5	45	36	M6	0.7x4	939	2188	21	
SFE02020-3	20	20	3.175	39	62	12	10	47	5.5	50	41	M6	1.7x2	1321	3320	35
SFE02020-6	20	20	3.175	39	62	12	10	47	5.5	50	41	M6	1.7x4	2397	6640	67
SFE02040-3	40	40	3.175	38	58	11	10	41	5.5	48	40	M6	0.7x2	582	1397	13
SFE02040-6	40	40	3.175	38	58	11	10	41	5.5	48	40	M6	0.7x4	1056	2794	26
SFE02525-3	25	25	3.969	47	74	14	12	57	6.6	60	49	M6	1.7x2	1974	5188	43
SFE02525-6	25	25	3.969	47	74	14	12	57	6.6	60	49	M6	1.7x4	3583	10377	83
SFE02550-3	25	50	3.969	46	70	13	12	50	6.6	58	48	M6	0.7x2	870	2183	16
SFE02550-6	50	3.969	46	70	13	12	50	6.6	58	48	M6	0.7x4	1579	4366	32	
SFE03232-3	32	32	4.762	58	92	17	12	71	9	74	60	M6	1.7x2	2876	8207	54
SFE03232-6	32	32	4.762	58	92	17	12	71	9	74	60	M6	1.7x4	5220	16414	106
SFE03264-3	32	64	4.762	58	92	15.5	12	62	9	74	60	M6	0.7x2	1225	3282	20
SFE03264-6	64	4.762	58	92	15.5	12	62	9	74	60	M6	0.7x4	2223	6565	39	
SFE04040-3	40	40	6.35	73	114	19.5	15	89	11	93	75	M6	1.7x2	4600	13281	66
SFE04040-6	40	40	6.35	73	114	19.5	15	89	11	93	75	M6	1.7x4	8348	26561	128
SFE05050-3	50	50	7.938	90	135	21.5	20	107	14	112	92	M6	1.7x2	6512	19430	80
SFE05050-6	50	50	7.938	90	135	21.5	20	107	14	112	92	M6	1.7x4	11820	38859	155

Note:
 1. "3" means 2 starts, "6" means 4 starts.
 2. Standard nuts are without seals, if required, please advise.

注:
 1. "3"代表双回流, "6"代表四回流。
 2. 螺帽标准品无附刮刷器, 如有需求, 请告知业务人员。

◆ Type: **SFK - Miniature**
款型: **SFK - 微型**



d ≥ 20 (SFK01004) Unit: mm / 单位: 毫米

• l: Lead 导程 • Da: Ball Diameter 珠径 • n: No. of Circuits 珠圈数 • K: Stiffness (kgf/μm) 刚性
• Ca: Basic Dynamic Rating Load (Kgf) 动额定负荷 • Coa: LBasic Static Rating Load (kgf) 静额定负荷

型号 Model No.	d	l	Da	D	A	B	L	W	H	X	Y	Z	Q	n	Ca	Coa	K
SFK00401	4	1	0.8	10	20	3	12	15	14	2.9	-	-	-	1x2	64	97	5
SFK00601	6	1	0.8	12	24	3.5	15	18	16	3.4	-	-	-	1x3	111	224	9
SFK00801 *		1	0.8	14	27	4	16	21	18	3.4	-	-	-	1x4	161	403	14
SFK00802 *	8	2	1.2	14	27	4	16	21	18	3.4	-	-	-	1x3	222	458	13
SFK0082.5		2.5	1.2	16	29	4	26	23	20	3.4	-	-	-	1x3	221	457	13
SFK01002 *	10	2	1.2	18	35	5	28	27	22	4.5	-	-	-	1x3	243	569	15
SFK01004		4	2	26	46	10	34	36	28	4.5	8	4.5	M6	1x3	468	905	17
SFK01202 *	12	2	1.2	20	37	5	28	29	24	4.5	-	-	-	1x4	334	906	22
SFK01402	14	2	1.2	21	40	6	23	31	26	5.5	-	-	-	1x4	354	1053	24
SFK01602	16	2	1.2	25	43	10	40	35	29	5.5	-	-	M6	1x4	373	1200	26

Note:
1. Those marked with * can be produced in left helix.
2. Standard nuts are without seals, if required, please advise.
注:
1. 有标注*可制作左螺纹。
2. 螺帽标准品无附刮刷器, 如有需求, 请告知业务人员。

Ball Screws

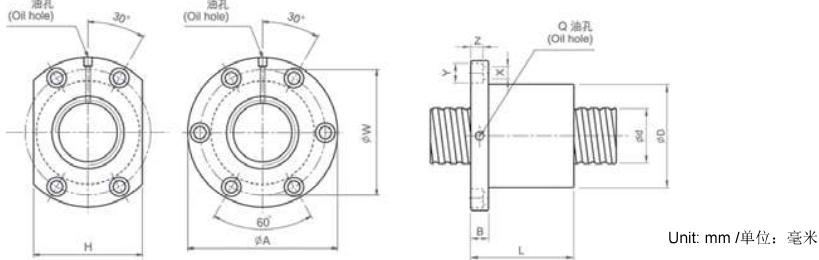
滚珠螺杆



产品特色 Product Features

- ★ **高速性 High Speed**
采特殊回流设计, 于高速运转时较无阻滞现象
Using special recirculation design, rotation at high speed without resistance.
- ★ **低噪音 Low Noise**
回流设计采用特殊材质与设计, 较铁制导管更降低噪音值
The recirculation design adopt special material and from which can lower the noise greatly compare with tube type design.
- ★ **专利防尘设计 Patented Dust-proof Design**
专利刮刷模组, 能更有效的防止异物进入延长滚珠螺杆使用寿命
Patented seal module can achieve long lifespan by preventing foreign particles penetrating into ballscrew.
- ★ **规格种类齐全 Variety of Dimensions**
相关组装尺寸, 单、双螺帽, 尺寸规格齐全
All dimensions, single or double nuts are available.

◆ Type: **SFV - High Speed Heavy Load**
 款型: **SFV - 高速重负载系列**



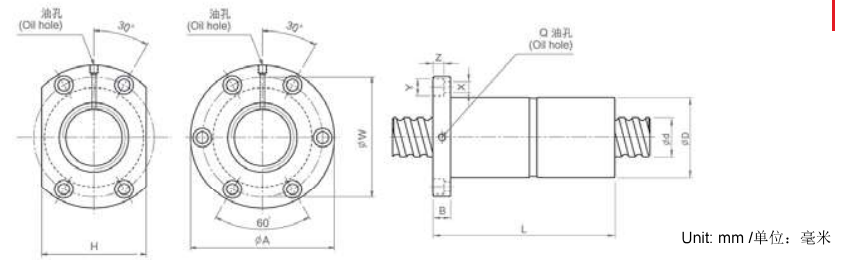
Unit: mm / 单位: 毫米

• l: Lead 导程 • Da: Ball Diameter 珠径 • n: No. of Circuits 珠圈数 • K: Stiffness (kgf/μm) 刚性
 • Ca: Basic Dynamic Rating Load (Kgf) 动额定负荷 • Coa: LBasic Static Rating Load (kgf) 静额定负荷

型号 Model No.	滚珠螺杠、螺帽之基准数据 Dimensions																
	d	l	Da	D	A	B	L	W	H	X	Y	Z	Q	n	Ca	Coa	K
SFV01205-2.8	12	5	2.5	30	50	10	42	40	32	4.5	8	4.5	M6	2.8x1	661	1316	19
SFV01210-2.7	12	10	2.5	30	50	10	53	40	32	4.5	8	4.5	M6	2.7x1	623	1241	18
SFV01510-2.7	15	10	3.175	34	58	10	57	45	34	5.5	9.5	5.5	M6	2.7x1	972	2020	23
SFV01604-3.8	16	4	2.381	34	57	11	45	45	34	5.5	9.5	5.5	M6	3.8x1	931	2285	31
SFV01605-4.8	16	5	3.175	40	63	11	58	51	42	5.5	9.5	5.5	M6	4.8x1	1614	3662	40
SFV01610-2.7	16	10	3.175	40	63	11	56	51	42	5.5	9.5	5.5	M6	2.7x1	1008	2161	24
SFV02004-4.8	20	4	2.381	40	60	10	50	50	40	4.5	8	4	M6	4.8x1	1247	3584	45
SFV02005-4.8	20	5	3.175	44	67	11	57	55	52	5.5	9.5	5.5	M6	4.8x1	1814	4650	47
SFV02010-2.7	20	10	3.969	46	74	13	57	59	46	6.6	11	6.5	M6	2.7x1	1518	3398	30
SFV02020-1.8	20	3.175	46	74	13	70	59	46	6.6	11	6.5	M6	1.8x1	764	1758	19	
SFV02505-4.8	25	5	3.175	50	73	11	55	61	52	5.5	9.5	5.5	M8	4.8x1	2017	5884	56
SFV02506-4.8	25	6	3.969	53	76	11	62	64	58	5.5	9.5	5.5	M6	4.8x1	2711	7268	58
SFV02508-4.8	25	8	4.762	56	85	13	70	71	64	6.5	11	6.5	M6	4.8x1	3466	8776	61
SFV02510-2.7	25	10	6.35	68	102	15	70	84	82	9	14	8.5	M8	2.7x1	3040	6547	37
SFV02525-1.8	25	3.175	50	73	13	83	61	52	5.5	9.5	5.5	M8	1.8x1	843	2199	22	
SFV03204-4.8	32	4	2.381	54	81	12	50	67	64	6.6	11	6.5	M6	4.8x1	1517	5806	62
SFV03205-4.8	32	5	3.175	58	85	12	56	71	64	6.6	11	6.5	M8	4.8x1	2249	7612	66
SFV03206-4.8	32	6	3.969	62	89	12	60	75	68	6.6	11	6.5	M8	4.8x1	3079	9575	70
SFV03208-4.8	32	8	4.762	66	100	15	75	82	76	9	14	8.5	M8	4.8x1	3962	11547	74
SFV03210-4.8	32	10	6.35	74	108	15	96	90	82	9	14	9	M8	4.8x1	5620	14649	76
SFV03220-2.7	32	20	6.35	74	108	16	100	90	82	9	14	8.5	M8	2.7x1	3509	8644	46
SFV04005-4.8	40	5	3.175	67	101	15	59	83	72	9	14	8.5	M8	4.8x1	2468	9586	76
SFV04010-4.8	40	10	6.35	82	124	18	100	102	94	11	17.5	11	M8	4.8x1	6316	18600	90
SFV04020-2.7	40	20	6.35	82	124	18	100	102	90	11	17.5	11	M8	2.7x1	3935	10893	56
SFV05005-4.8	50	5	3.175	80	114	15	60	96	82	9	14	8.5	M8	4.8x1	2698	12053	87
SFV05010-4.8	50	10	6.35	93	135	16	93	113	98	11	17.5	11	M8	4.8x1	7023	23537	106
SFV05020-2.7	50	20	9.525	105	152	28	121	128	110	14	20	13	M8	2.7x1	7336	19700	68
SFV06310-4.8	63	10	6.35	108	154	22	105	130	110	14	20	13	M8	4.8x1	7860	30430	126
SFV06320-2.7	63	20	9.525	122	180	28	120	150	130	18	26	17.5	M8	2.7x1	8162	24741	80
SFV08010-4.8	80	10	6.35	130	176	22	105	152	132	14	20	13	M8	4.8x1	8593	38344	145
SFV08020-4.8	80	20	9.525	143	204	28	180	172	148	18	26	18	M8	4.8x1	15103	57296	168
SFV08020-7.6	80	20	9.525	143	204	28	240	172	148	18	26	18	M8	3.8x2	22423	90719	260

Note: Those marked with * can be produced in left helix. / 注: 有标注*可制作左螺纹。

◆ Type: **DFV - High Speed Heavy Load**
 款型: **DFV - 高速重负载系列**



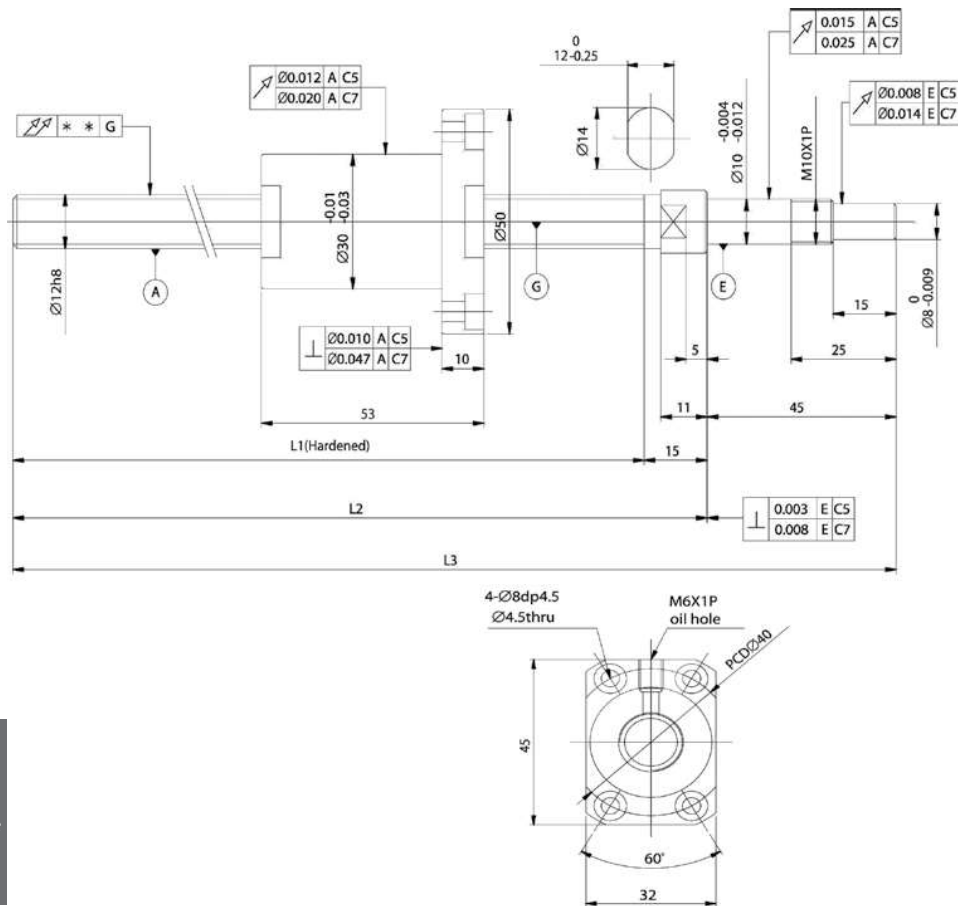
Unit: mm / 单位: 毫米

• l: Lead 导程 • Da: Ball Diameter 珠径 • n: No. of Circuits 珠圈数 • K: Stiffness (kgf/μm) 刚性
 • Ca: Basic Dynamic Rating Load (Kgf) 动额定负荷 • Coa: LBasic Static Rating Load (kgf) 静额定负荷

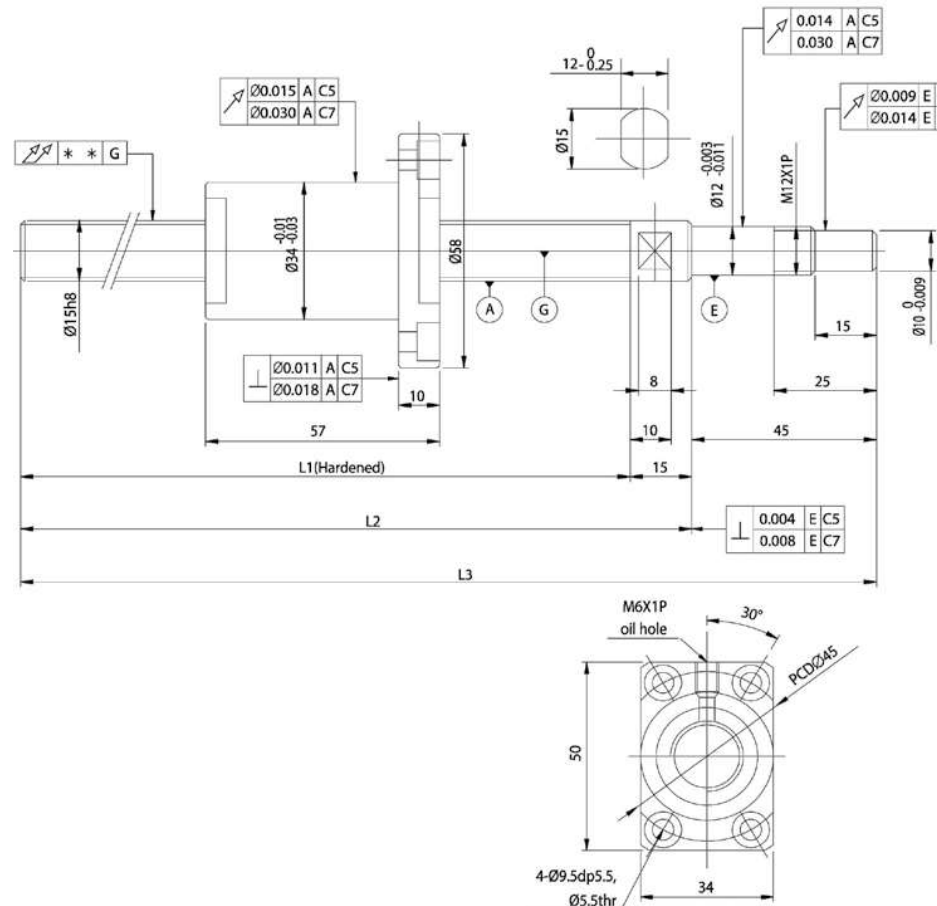
型号 Model No.	滚珠螺杠、螺帽之基准数据 Dimensions																
	d	l	Da	D	A	B	L	W	H	X	Y	Z	Q	n	Ca	Coa	K
DFV01510-2.7	15	10	3.175	34	58	10	107	45	34	5.5	9.5	5.5	M6	2.7x1	972	2020	30
DFV01604-3.8	16	4	2.381	34	57	11	89	45	34	5.5	9.5	5.5	M6	3.8x1	931	2285	42
DFV01605-4.8	16	5	3.175	40	63	11	113	51	42	5.5	9.5	5.5	M6	4.8x1	1614	3662	53
DFV01610-2.7	16	10	3.175	40	63	11	106	51	42	5.5	9.5	5.5	M6	2.7x1	1008	2161	32
DFV02004-4.8	20	4	2.381	40	60	10	94	50	40	4.5	8	4	M6	4.8x1	1247	3584	61
DFV02005-4.8	20	5	3.175	44	67	11	112	55	52	5.5	9.5	5.5	M6	4.8x1	1814	4650	63
DFV02010-2.7	20	10	3.969	46	74	13	117	59	46	6.6	11	6.5	M6	2.7x1	1518	3398	40
DFV02505-4.8	25	5	3.175	50	73	11	105	61	52	5.5	9.5	5.5	M8	4.8x1	2017	5884	75
DFV02506-4.8	25	6	3.969	53	76	11	116	64	58	5.5	9.5	5.5	M6	4.8x1	2711	7268	78
DFV02508-4.8	25	8	4.762	56	85	13	134	71	64	6.5	11	6.5	M6	4.8x1	3466	8776	82
DFV02510-2.7	25	10	6.35	68	102	15	130	84	82	9	14	8.5	M8	2.7x1	3040	6547	49
DFV03204-4.8	32	4	2.381	54	81	12	94	67	64	6.6	11	6.5	M6	4.8x1	1517	5806	85
DFV03205-4.8	32	5	3.175	58	85	12	106	71	64	6.6	11	6.5	M8	4.8x1	2249	7612	90
DFV03206-4.8	32	6	3.969	62	89	12	114	75	68	6.6	11	6.5	M8	4.8x1	3079	9575	95
DFV03208-4.8	32	8	4.762	66	100	15	139	82	76	9	14	8.5	M8	4.8x1	3962	11547	100
DFV03210-4.8	32	10	6.35	74	108	15	186	90	82	9	14	9	M8	4.8x1	5620	14649	101
DFV03220-2.7	32	20	6.35	74	108	16	200	90	82	9	14	8.5	M8	2.7x1	3509	8644	61
DFV04005-4.8	40	5	3.175	67	101	15	109	83	72	9	14	8.5	M8	4.8x1	2468	9586	105
DFV04010-4.8	40	10	6.35	82	124	18	188	102	94	11	17.5	11	M8	4.8x1	6316	18600	121
DFV04020-2.7	40	20	6.35	82	124	18	200	102	90	11	17.5	11	M8	2.7x1	3935	10893	74
DFV05005-4.8	50	5	3.175	80	114	15	115	96	82	9	14	8.5	M8	4.8x1	2698	12053	122
DFV05010-4.8	50	10	6.35	93	135	16	173	113	98	11	17.5	11	M8	4.8x1	7023	23537	144
DFV05020-2.7	50	20	9.525	105	152	28	221	128	110	14	20	13	M8	2.7x1	7336	19700	90
DFV06310-4.8	63	10	6.35	108	154	22	195	130	110	14	20	13	M8	4.8x1	7860	30430	172
DFV06320-2.7	63	20	9.525	122	180	28	220	150	130	18	26	17.5	M8	2.7x1	8162	24741	107
DFV08010-4.8	80	10	6.35	130	176	22	195	152	132	14	20	13	M8	4.8x1	8593	38344	201
DFV08020-4.8	80	20	9.525	143	204	28	340	172	148	18	26	18	M8	4.8x1	15103	57296	226
DFV08020-7.6	80	20	9.525	143	204	28	460	172	148	18	26	18	M8	3.8x2	22423	90719	351

Note: Those marked with * can be produced in left helix. / 注: 有标注*可制作左螺纹。

◆ Type: **HSVR01210** - Ground Ball Screw with End Machining
 款型: **HSVR01210** - 研磨级轴端完成品



◆ Type: **HSVR01510** - Ground Ball Screw with End Machining
 款型: **HSVR01510** - 研磨级轴端完成品



Screws
螺杆

Screws
螺杆

钢珠中心 (mm)	BCD (mm)	12.85
钢珠直径 (mm)	Ball Dia (mm)	2.5
导程 (mm)	Pitch (mm)	10
珠卷数	Number of Turns	2.7 x 1
导程角	Lead Angle	13.91°
螺旋方向	Helix Dir	Right (右)
弹簧力	Spring Force	0.1~0.2kg
预压力	Preload	25 (kgf)
动负荷Ca	Dynamic (Ca)	411kgf
静负荷Co	Static (Coa)	638kgf

单位 (unit) : mm

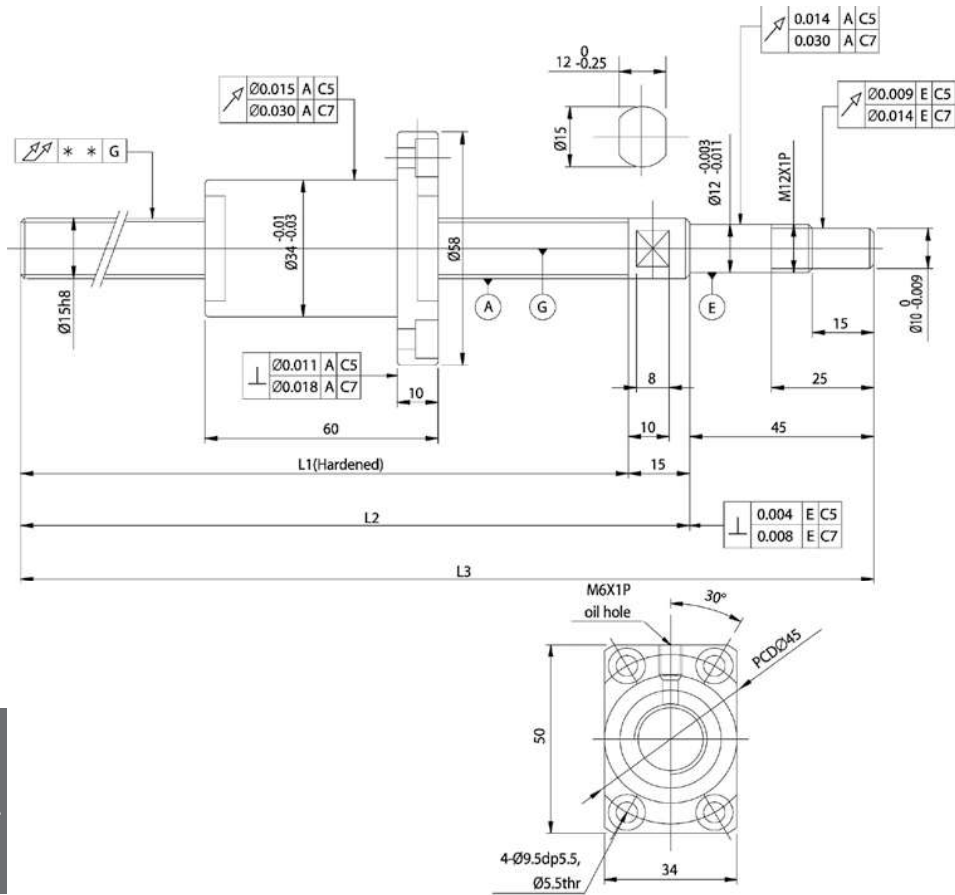
行程 mm Stroke	公称编号 Model No.	螺杆轴长度 Screw Shaft Length			轴心偏摆 (* *) Shaft Run Out
		L1	L2	L3	
250	HSVR01210-410-P2-C5	350	365	410	0.060
250	HSVR01210-410-P2-C7	350	365	410	0.100
450	HSVR01210-610-P2-C5	550	565	610	0.075
450	HSVR01210-610-P2-C7	550	565	610	0.160

钢珠中心 (mm)	BCD (mm)	15.5
钢珠直径 (mm)	Ball Dia (mm)	3.175
导程 (mm)	Pitch (mm)	10
珠卷数	Number of Turns	2.7 x 1
导程角	Lead Angle	11.6°
螺旋方向	Helix Dir	Right (右)
弹簧力	Spring Force	0.1~0.3kg
预压力	Preload	38 (kgf)
动负荷Ca	Dynamic (Ca)	611kgf
静负荷Co	Static (Coa)	950kgf

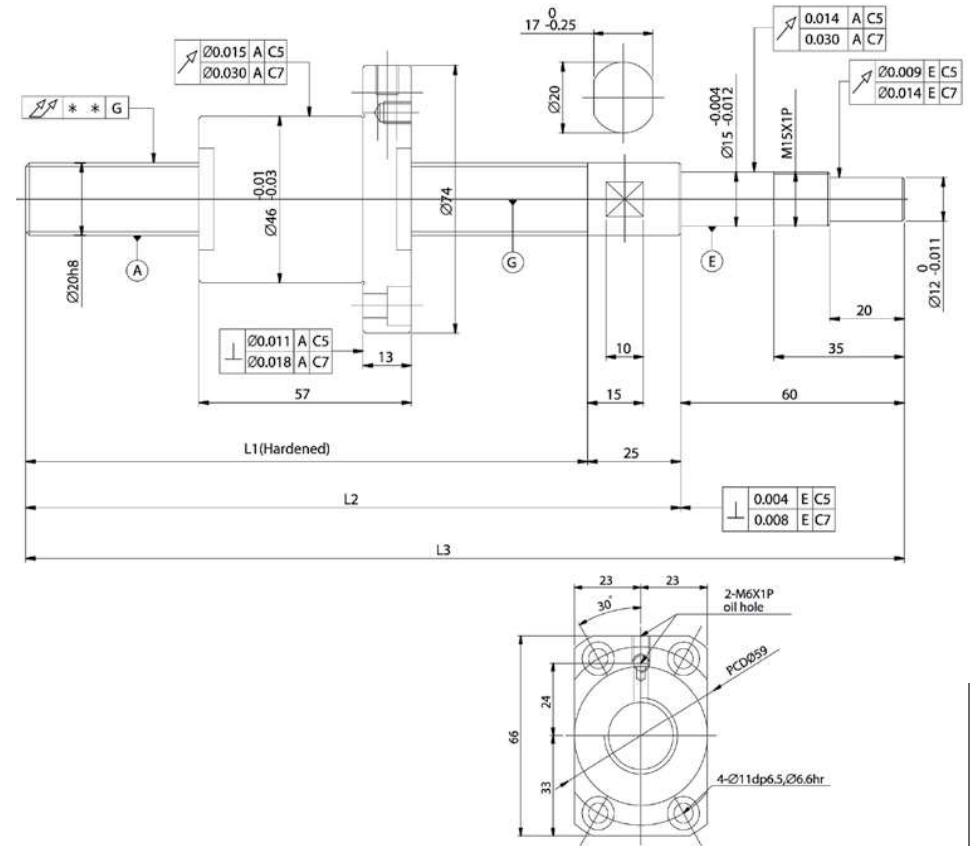
单位 (unit) : mm

行程 mm Stroke	公称编号 Model No.	螺杆轴长度 Screw Shaft Length			轴心偏摆 (* *) Shaft Run Out
		L1	L2	L3	
300	HSVR01510-500-P2-C5	440	455	500	0.040
300	HSVR01510-500-P2-C7	440	455	500	0.075
500	HSVR01510-700-P2-C5	640	655	700	0.065
500	HSVR01510-700-P2-C7	640	655	700	0.110
800	HSVR01510-1000-P2-C5	940	955	1000	0.085
800	HSVR01510-1000-P2-C7	940	955	1000	0.180

◆ Type: **HSVR01520** - Ground Ball Screw with End Machining
 款型: **HSVR01520** - 研磨级轴端完成品



◆ Type: **HSVR02010** - Ground Ball Screw with End Machining
 款型: **HSVR02010** - 研磨级轴端完成品



Screws
螺絲杆

Screws
螺絲杆

钢珠中心(mm)	BCD (mm)	15.5
钢珠直径(mm)	Ball Dia (mm)	3.175
导程(mm)	Pitch (mm)	20
珠卷数	Number of Turns	1.8 x 1
导程角	Lead Angle	22.33°
螺旋方向	Helix Dir	Right (右)
弹簧力	Spring Force	0.1~0.3kg
预压力	Preload	38 (kgf)
动负荷Ca	Dynamic (Ca)	580kgf
静负荷Co	Static (Coa)	875kgf

行程 mm Stroke	公称编号 Model No.	螺 杆 轴 长 度 Screw Shaft Length			轴 心 偏 摆 (**) Shaft Run Out
		L1	L2	L3	
300	HSVR01520-500-P2-C5	440	455	500	0.040
300	HSVR01520-500-P2-C7	440	455	500	0.075
500	HSVR01520-700-P2-C5	640	655	700	0.065
500	HSVR01520-700-P2-C7	640	655	700	0.110
800	HSVR01520-1000-P2-C5	940	955	1000	0.085
800	HSVR01520-1000-P2-C7	940	955	1000	0.180

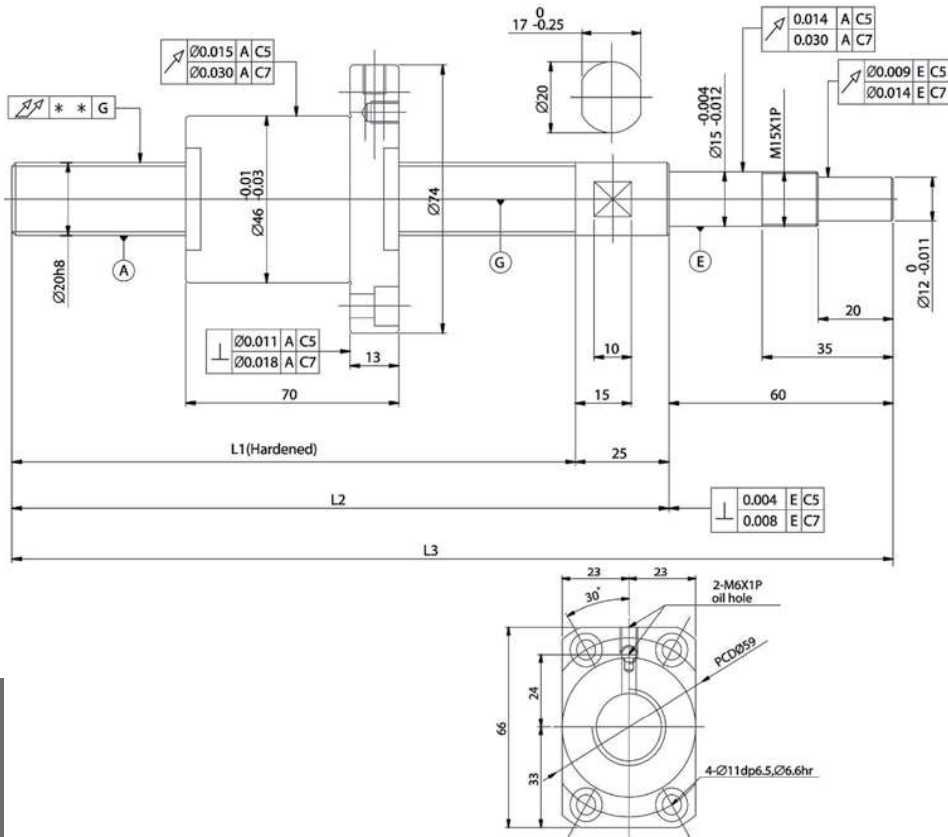
单位 (unit): mm

钢珠中心(mm)	BCD (mm)	21.35
钢珠直径(mm)	Ball Dia (mm)	3.969
导程(mm)	Pitch (mm)	10
珠卷数	Number of Turns	2.7 x 1
导程角	Lead Angle	8.48°
螺旋方向	Helix Dir	Right (右)
弹簧力	Spring Force	0.1~0.3kg
预压力	Preload	43 (kgf)
动负荷Ca	Dynamic (Ca)	977kgf
静负荷Co	Static (Coa)	1732kgf

行程 mm Stroke	公称编号 Model No.	螺 杆 轴 长 度 Screw Shaft Length			轴 心 偏 摆 (**) Shaft Run Out
		L1	L2	L3	
500	HSVR02010-700-P2-C5	615	640	700	0.065
500	HSVR02010-700-P2-C7	615	640	700	0.110
800	HSVR02010-1000-P2-C5	915	940	1000	0.085
800	HSVR02010-1000-P2-C7	915	940	1000	0.180
1000	HSVR02010-1200-P2-C5	1115	1140	1200	0.110
1000	HSVR02010-1200-P2-C7	1115	1140	1200	0.230

单位 (unit): mm

◆ Type: **HSVR02020** - Ground Ball Screw with End Machining
 款型: **HSVR02020** - 研磨级轴端完成品



钢球中心(mm)	BCD (mm)	20.75
钢球直径(mm)	Ball Dia (mm)	3.175
导程(mm)	Pitch (mm)	20
珠卷数	Number of Turns	1.8 x 1
导程角	Lead Angle	17.05°
螺旋方向	Helix Dir	Right (右)
弹簧力	Spring Force	0.1~0.3kg
预压力	Preload	31 (kgf)
动负荷Ca	Dynamic (Ca)	507kgf
静负荷Co	Static (Coa)	958kgf

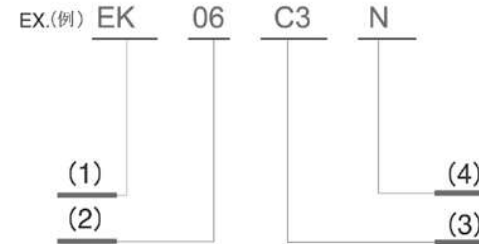
单位 (unit): mm

行程 mm Stroke	公称编号 Model No.	螺杆轴长度 Screw Shaft Length			轴心偏差(**) Shaft Run Out
		L1	L2	L3	
500	HSVR02020-700-P2-C5	615	640	700	0.065
500	HSVR02020-700-P2-C7	615	640	700	0.110
800	HSVR02020-1000-P2-C5	915	940	1000	0.085
800	HSVR02020-1000-P2-C7	915	940	1000	0.180
1000	HSVR02020-1200-P2-C5	1115	1140	1200	0.110
1000	HSVR02020-1200-P2-C7	1115	1140	1200	0.230

Support Unit

支撑座

◆ **Specification Number** 支撑座公称代号



(1) 支撑座型号 Support Unit Type

- EK: 凸形固定侧 (Fixed-side Rectangular Type)
- EF: 凸形支撑侧 (Supported-side Rectangular Type)
- BK: 方形固定侧 (Fixed-side Rectangular Type)
- BF: 方形支撑侧 (Supported-side Rectangular Type)
- FK: 圆形固定侧 (Fixed-side Round Type)
- FF: 圆形支撑侧 (Supported-side Round Type)
- AK: 方形固定侧 (Fixed-side Rectangular Type)
- AF: 方形支撑侧 (Supported-side Rectangular Type)
- WBK: 高荷重支撑侧 (Heavy Load Type)

(2) 尺寸 Size

- EK 05~20
- EF 06~20
- BK 10~40
- BF 10~40
- FK 05~30
- FF 06~30
- AK 10~20
- AF 10~20
- WBK 17~40

(3) 精度等级 Precision Grade

- C3: C3级使用P5级接触轴承
Using P5 grade angular contact bearing for C3.
- C5: C5级使用之轴承经预压处理, 轴向0间隙
Bearings make Preload for C5 types Support Units, and axial clearance is 08mm.
- C7: C7级使用之7字头轴承无预压处理, 轴向最大间隙0.018mm
Using angular contact ball bearings without preload for C7 types Support Units, and Max. axial clearance is 0.018mm.
EK05-EK08 C7级使用之6字头轴承, 轴向需轻负荷, 间隙约0.03mm.欲订此规格请先洽询技术资料
Using deep groove ball bearings for EK05 to EK08 C7 types Support Units, which only be applied to light load, and Max. axial clearance is around 0.03mm.

(4) 表面处理 Surface Treatment

- 无标志 No Symbol: 染黑Black Oxide (适用环境Application: 一般General Case)
- N: 化学镍 (适用环境Application: 无尘室Clean Room)

Support Unit

支撑座

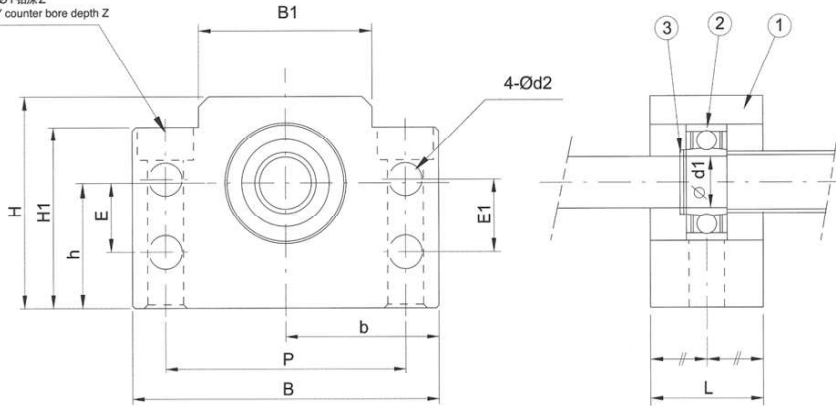
◆ Support Unit AF - Supported-side Rectangular Type
AF系列 - 方形支撑座



Part No.编号	Part Name 产品名称	Qty. 数量
1	Housing 轴承本体	1
2	Bearing 轴承	1 set / 组
3	Snap Ring C型扣环	1

AF

2-ØX钻穿ØY钻深Z
2X drill ØY counter bore depth Z



单位/Unit:mm

型号 Model No.	轴径 Shaft diameter Ø1	L	B	H	b	h	B1	H1	E1	P	d2	X	Y	Z	E	使用轴承 Bearing	使用C型扣环 Snap ring
AF10	8	20	70	43	35	25	36	35	19	52	6.6	9	14	11	15	608ZZ	S 08
AF12	10	20	70	43	35	25	36	35	19	52	6.6	9	14	11	15	6000ZZ	S 10
AF15	15	20	80	49	40	30	41	40	19	60	6.6	9	14	11	15	6002ZZ	S 15
AF20	20	26	95	58	47.5	30	56	45	19	75	6.6	11	17	15	15	6204ZZ	S 20

Lock Nut

锁固螺帽

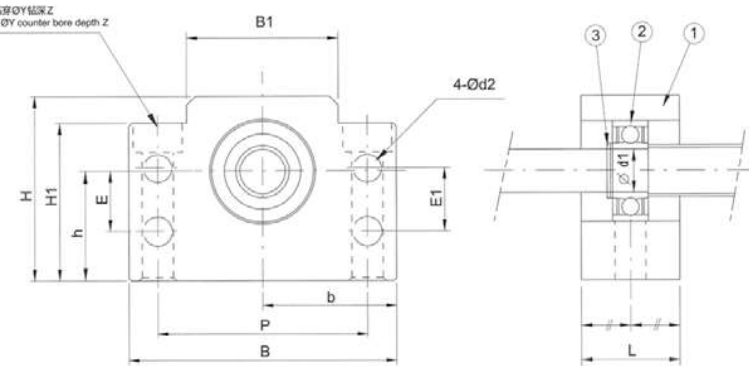
◆ Lock Nut 锁固螺帽



Part No.编号	Part Name 产品名称	Qty. 数量
1	Lock Nut 锁固螺帽	1 set / 组
2	Hexagon socket-head Setscrew (w/set piece) 内六角止付螺丝 (附铜片)	2

Lock Nut

2-ØX钻穿ØY钻深Z
2X drill ØY counter bore depth Z



单位/Unit:mm

型号 Model No.	H	A	E	M	B	G
RN05	5	12.5	2.7	M3x0.5	11	M5x0.5
RN05_N	13	29	9	M4x0.7	24	M17x1.0
RN06	5	13.5	2.7	M3x0.5	12	M6x0.75
RN06_N	6.5	16	4	M3x0.5	14	M8x1.0
RN08	8	19	5.5	M3x0.5	16	M10x1.0
RN08_N	8.1	22	5.1	M4x0.7	19	M12x1.0
RN10	8	25	4.5	M4x0.7	22	M15x1.0
RN10_N	8	25	4.5	M4x0.7	22	M15x1.0
RN12	8.1	22	5.1	M4x0.7	19	M12x1.0
RN12_N	8	25	4.5	M4x0.7	22	M15x1.0
RN15	8	25	4.5	M4x0.7	22	M15x1.0
RN15_N	8	25	4.5	M4x0.7	22	M15x1.0

单位/Unit:mm

型号 Model No.	H	A	E	M	B	G
RN17	13	29	9	M4x0.7	24	M17x1.0
RN17_N	11	35	7	M5x0.8	30	M20x1.0
RN20	11	35	7	M5x0.8	30	M20x1.0
RN20_N	15	43	10	M5x0.8	35	M25x1.5
RN25	15	43	10	M5x0.8	35	M25x1.5
RN25_N	20	48	14	M6x1.0	40	M30x1.5
RN30	20	48	14	M6x1.0	40	M30x1.5
RN30_N	21	60	14	M8x1.25	50	M35x1.5
RN35	21	60	14	M8x1.25	50	M35x1.5
RN35_N	25	62	18	M8x1.25	50	M40x1.5
RN40	25	62	18	M8x1.25	50	M40x1.5
RN40_N	25	62	18	M8x1.25	50	M40x1.5

Lock Nut

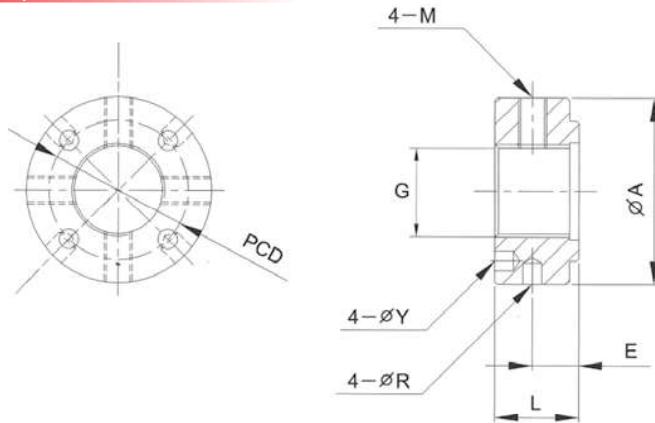
锁固螺帽

◆ Lock Nut (WBK) 锁固螺帽(重荷型)



Lock Nut (WBK)

Part No. 编号	Part Name 产品名称	Qty. 数量
1	Lock Nut 锁固螺帽	1 set / 组
2	Hexagon socket-head Setscrew (w/set piece) 内六角止付螺丝 (附铜片)	4



单位/Unit:mm

型号 Model No.	L	E	A	M	Y	R	PCD	G
RN17W RN17W_N	18	10	37	M6x1.0	4.3	4	27	M17x1.0
RN20W RN20W_N	18	10	40	M6x1.0	4.3	4	30	M20x1.0
RN25W RN25W_N	20	11	45	M6x1.0	4.3	4	30	M25x1.5
RN30W RN30W_N	20	11	50	M6x1.0	4.3	5	40	M30x1.5
RN35W RN35W_N	22	12	55	M6x1.0	4.3	5	45	M35x1.5
RN40W RN40W_N	22	12	60	M6x1.0	4.3	5	50	M40x1.5

Support Unit

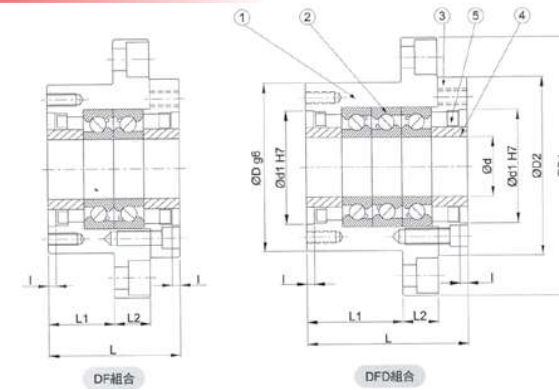
支撑座

◆ Support Unit WBK - Heavy Load
WBK系列 - 高荷重支撑座



WBK

Part No. 编号	Part Name 产品名称	Qty. 数量
1	Housing 轴承本体	1
2	Bearing 轴承	1 set / 组
3	Holding Lid 压板	1
4	Collar 间隔圈	2
5	Seal 轴封	2



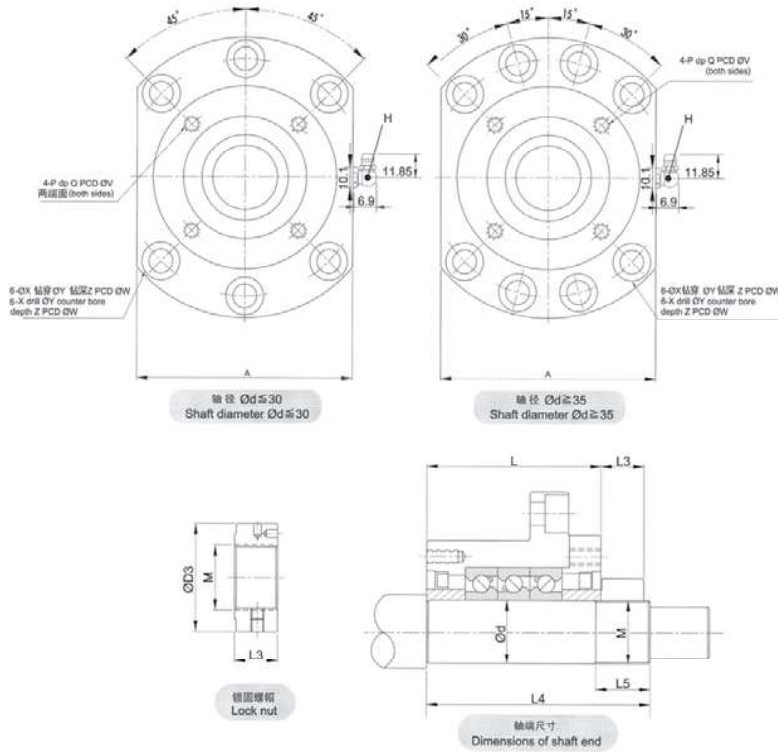
单位/Unit:mm

型号 Model No.	支撑座尺寸 Dimensions of support unit																	
	d	D	D1	D2	L	L1	L2	A	W	X	Y	Z	d1	l	V	P	Q	H
WBK17DF	17	70	106	72	60	32	15	80	88	9	14	8.5	45	3	58	M5	10	M6
WBK 20DF	20	70	106	72	60	32	15	80	88	9	14	8.5	45	3	58	M5	10	M6
WBK 25DF	25	85	130	90	66	33	18	100	110	11	17	11	57	4	70	M6	12	M6
WBK 25DFD	25	85	130	90	81	48	18	100	110	11	17	11	57	4	70	M6	12	M6
WBK 30DF	30	85	130	90	66	33	18	100	110	11	17	11	57	4	70	M6	12	M6
WBK 30DFD	30	85	130	90	81	48	18	100	110	11	17	11	57	4	70	M6	12	M6
WBK 35DF	35	95	142	102	66	33	18	106	121	11	17	11	69	4	80	M6	12	M6
WBK 35DFD	35	95	142	102	81	48	18	106	121	11	17	11	69	4	80	M6	12	M6
WBK 40DF	40	95	142	102	66	33	18	106	121	11	17	11	69	4	80	M6	12	M6
WBK 40DFD	40	95	142	102	81	48	18	106	121	11	17	11	69	4	80	M6	12	M6

Support Unit

支撑座

◆ **Support Unit WBK - Heavy Load**
WBK系列 - 高荷重支撑座



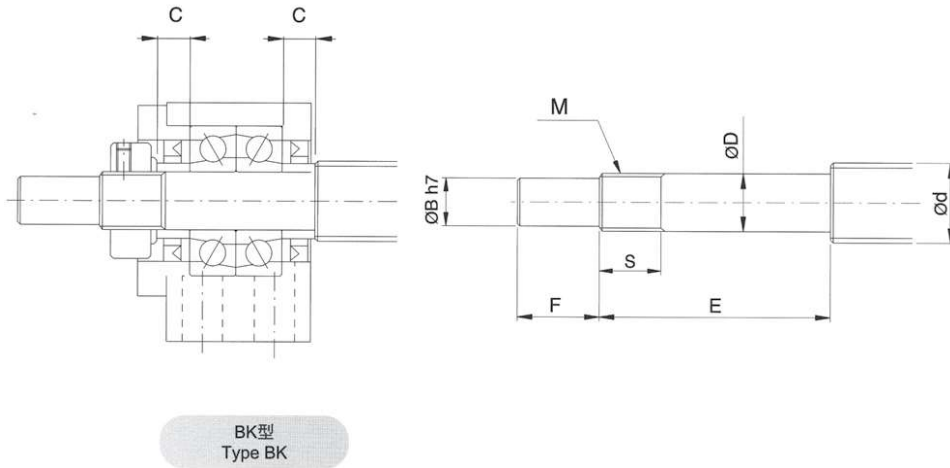
单位/Unit:mm

使用轴承 Bearing	基本额定动载荷 Basic dynamic load rating Ca(N)	界限荷重 Permissible axial load(N)	预压荷重 Preload(N)	轴方向刚性 Axial rigidity(N/cm)	起动力矩 Starting torque(N-cm)	锁固螺帽 Lock nut			重量 Weight Kgs	轴端尺寸 Dimensions of shaft end		
						M	D3	L3		d	L4	L5
17TAC47 P4	21900	26600	2150	750	14.0	M17X1	37	18	1.9	17	81	23
20TAC47 P4	21900	26600	2150	750	14.0	M20X1	40	18	1.9	20	81	23
25TAC62 P4	28500	40500	3150	1000	23.0	M25X1.5	45	20	3.1	25	89	26
25TAC62 P4	46500	81500	4300	1470	31.0	M25X1.5	45	20	3.4	25	104	26
30TAC62 P4	29200	43000	3350	1030	24.0	M30X1.5	50	20	3.0	30	89	26
30TAC62 P4	47500	86000	4500	1520	33.0	M30X1.5	50	20	3.3	30	104	26
35TAC72 P4	31000	50000	3800	1180	28.0	M35X1.5	55	22	3.4	35	92	30
35TAC72 P4	50500	100000	5200	1710	37.0	M35X1.5	55	22	4.3	35	107	30
40TAC72 P4	31500	52000	3900	1230	28.0	M40X1.5	60	22	3.6	40	92	30
40TAC72 P4	51500	104000	5300	1810	38.0	M40X1.5	60	22	4.2	40	107	30

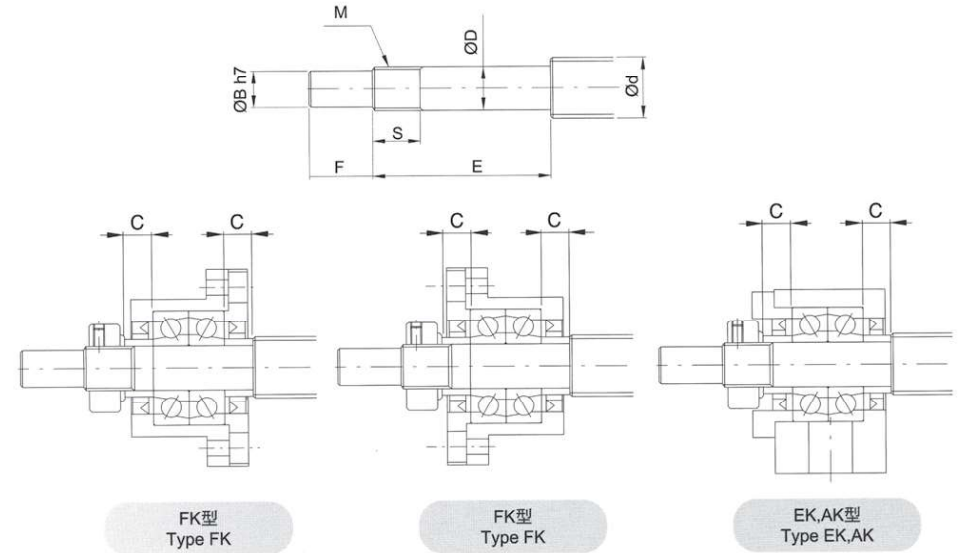
◆ **Type of Support Units & Applicable Ball Screw Diameters**
支撑座适用滚珠螺杆外径

固定侧支撑座 内径(mm) Fixed-side support unit ID(mm)	固定侧支撑座 适用型号 Fixed-side support uni applicable model	支撑侧支撑座 内径(mm) Supported-side support unit ID(mm)	支撑侧支撑座 适用型号 Supported-side support unit applicable model	适用螺杆轴 外径 Applicable Ball Screw OD (mm)
5	EK05 FK05	-	-	Ø6
6	EK06 FK06	6	EF06 FF06	Ø8
8	EK08 FK08	6	EF08 FF08	Ø10
10	EK10 FK10 BK10 AK10	8	EF10 FF10 BF10 AF10	Ø10,Ø12,Ø14
12	EK12 FK12 BK12 AK12	10	EF12 FF12 BF12 AF12	Ø14,Ø15,Ø16
15	EK15 FK15 BK15 AK15	15	EF15 FF15 BF15 AF15	Ø20
17	BK17 FK17	17	BF17 FF17	Ø20,Ø25
20	EK20 FK20 BK20 AK20	20	EF20 FF20 BF20 AF20	Ø25,Ø28
25	FK25 BK25	25	FF25 BF25	Ø32,Ø36
30	FK30 BK30	30	FF30 BF30	Ø40,Ø45
35	BK35	35	BF35	Ø45
40	BK40	40	BF40	Ø50

◆ Recommended Shaft End Shape (Fixed-side) for Support Units - Type BK
建议轴端加工尺寸（固定侧）- BK型



◆ Recommended Shaft End Shape (Fixed-side) for Support Units - Type FK, EK, AK
建议轴端加工尺寸（固定侧）- FK, EK, AK型



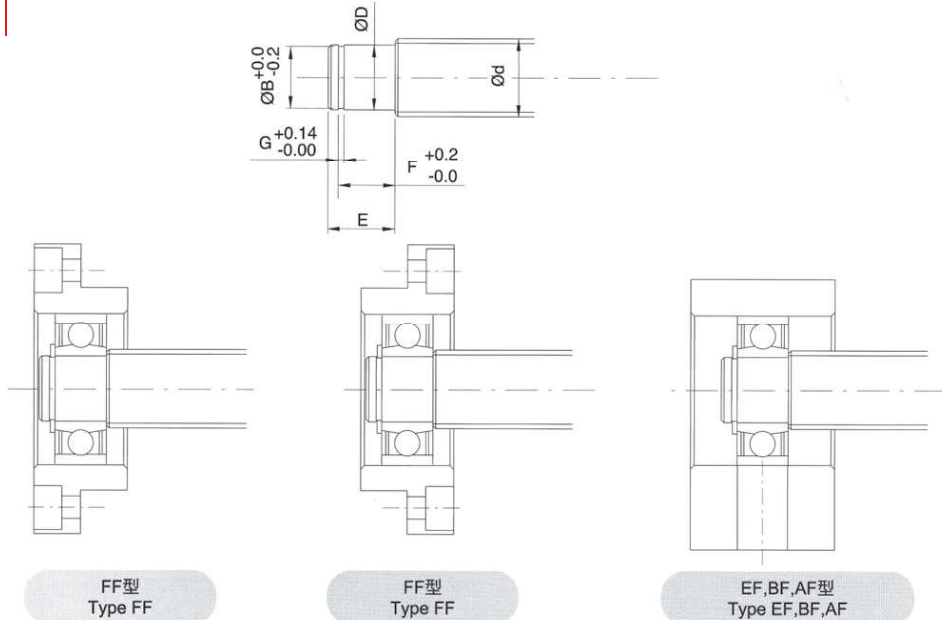
单位/Unit:mm

型号 Support unit model No.	滚珠螺杆轴外径 Ballscrew shaft OD	轴端部外径 Shaft support portion OD			公称螺纹 Metric screw thread		套筒长度 Collar Length		
		B	E	F	M	S			
BK型 Type BK	d	D					C		
BK10	12/14/15	10	-0.005 -0.012	8	36	15	M10x1	16	5.5
BK12	14/15/16	12	-0.005 -0.012	10	36	15	M12x1	14	5.5
BK15	18/20	15	-0.005 -0.014	12	40	20	M15x1	12	6
BK17	20/25	17	-0.005 -0.014	15	53	23	M17x1	17	7
BK20	25/28	20	-0.005 -0.014	17	53	25	M20x1	15	8
BK25	32/36	25	-0.005 -0.014	20	65	30	M25x1.5	18	9
BK30	36/40	30	-0.005 -0.015	25	72	38	M30x1.5	25	9
BK35	45	35	-0.005 -0.015	30	81	45	M35x1.5	28	12
BK40	50	40	-0.005 -0.015	35	93	50	M40x1.5	35	15

单位/Unit:mm

型号 Support unit model No.			滚珠螺杆轴外径 Ballscrew shaft OD	轴端部外径 Shaft support portion OD			公称螺纹 Metric screw thread		套筒长度 Collar Length			
FK型 Type FK	EK型 Type EK	AK型 Type AK	d	D			B	E	F	M	S	C
FK05	EK05	-	8	5	-0.005 -0.012	4	25	6	M5x0.5	7	3.5	
FK06	EK06	-	8	6	-0.005 -0.012	4	28	8	M6x0.75	8	5	
FK08	EK08	-	10/12	8	-0.005 -0.012	6	32	9	M8x1	10	5.5	
FK10	EK10	AK10	12/14/15	10	-0.005 -0.012	8	36	15	M10x1	11	5.5	
FK12	EK12	AK12	14/15/16	12	-0.005 -0.012	10	36	15	M12x1	11	5.5	
FK15	EK15	AK15	18/20	15	-0.005 -0.014	12	47	20	M15x1	13	10	
FK17	-	-	20/25	17	-0.005 -0.014	15	58	23	M17x1	15	10	
FK20	EK20	AK20	25/28/30	20	-0.005 -0.014	17	62	25	M20x1	17	11	
FK25	-	-	30/32/36	25	-0.005 -0.014	20	76	30	M25x1.5	20	15	
FK30	-	-	36/40	30	-0.005 -0.015	25	72	38	M30x1.5	25	9	

◆ Recommended Shaft End Shape (Supported-side) for Support Units - Type FF, EF, BF, AF
 建议轴端加工尺寸（支撑侧）- FF, EF, BF, AF型



单位/Unit:mm

型号 Support unit model No.				滚珠螺杆轴外径 Ballscrew shaft OD	轴端部外径 Shaft support portion OD					
FF型 Type FF	EF型 Type EF	BF型 Type BF	AF型 Type AF	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 -0.005 -0.012	10	7.6	7.9	0.9	
FF12	EF12	BF12	AF12	14/15/16	10 -0.005 -0.012	11	9.6	9.15	1.15	
FF15	EF15	BF15	AF15	18/20	15 -0.005 -0.014	13	14.3	10.15	1.15	
FF17	-	BF17	-	20/25	17 -0.005 -0.014	16	16.2	13.15	1.15	
FF20	EF20	Note(BF20)	AF20	25/28/30	20 -0.005 -0.014	19(16)	19	15.35(13.35)	1.35	
FF25	-	BF25	-	30/32/36	25 -0.005 -0.015	20	23.9	16.35	1.35	
FF30	-	BF30	-	36/40	30 -0.005 -0.015	21	28.6	17.75	1.75	
-	-	BF35	-	40/45	35 -0.005 -0.015	22	33	18.75	1.75	
-	-	BF40	-	50	40 -0.005 -0.015	23	38	19.95	1.95	

◆ Ballscrew Support Unit Equivalent & Interchangeable for Major Manufacturers
 支撑座各厂牌型号对比照表

HSK&THK	HSK&THK	KURODA	NSK	MISUMI	HSK&THK	KURODA	NSK	MISUMI
BK10	EK05	-	-	-	FK05	-	-	-
BK12	EK06	BUK-6	WBK06-01A	BSW06	FK06	-	WBK06-11	BRW06
BK15	EK08	BUK-8F	WBK08-01A	BSW08	FK08	BUM-8	WBK08-11	BRW08
BK17	EK10	-	-	-	FK10	BUM-10	WBK10-11	BRW10
BK20	EK12	-	-	-	FK12	BUM-12	WBK12-11	BRW12
BK25	EK15	-	-	-	FK15	BUM-15	WBK15-11	BRW15
BK30	EK20	-	-	-	FK17	-	-	-
BK35					FK20	BUM-20	WBK20-11	BRW20
BK40					FK25	BUM-25	WBK25-11	BRW25
					FK30	-	-	-
	EF06	-	-	BUN06				
	EF08	BUK-6S	WBK08S-01A	BUN08				
	EF10	-	-	-				
	EF12	-	-	-				
	EF15	-	-	-				
	EF20	-	-	-				

BF10
BF12
BF15
BF17
BF20
BF25
BF30
BF35
BF40

HSK	KURODA	NSK	MISUMI
AK10	BUK-10F	WBK10-01A	BSW10
AK12	BUK-12F	WBK12-01A	BSW12
AK15	BUK-15F	WBK15-01A	BSW15
AK17	-	WBK17-01A	-
AK20	BUK-20F	WBK20-01A	BSW20
-	BUK-25F	WBK25-01A	BSW25

AF10	BUK-8S	WBK10S-01A	BUN10
AF12	BUK-10S	WBK12S-01A	BUN 12
AF15	BUK-15S	WBK15S-01A	BUN 15
AF17	-	WBK17S-01A	-
AF20	BUK-20S	WBK20S-01A	BUN 20
-	BUK-25S	WBK25S-01A	BUN 25

FF06	-	-	BUR06
FF10	-	-	BUR10
FF12	-	-	BUR12
FF15	-	-	BUR15
FF17	-	-	-
FF20	-	-	BUR20
FF25	-	-	BUR25
FF30	-	-	-

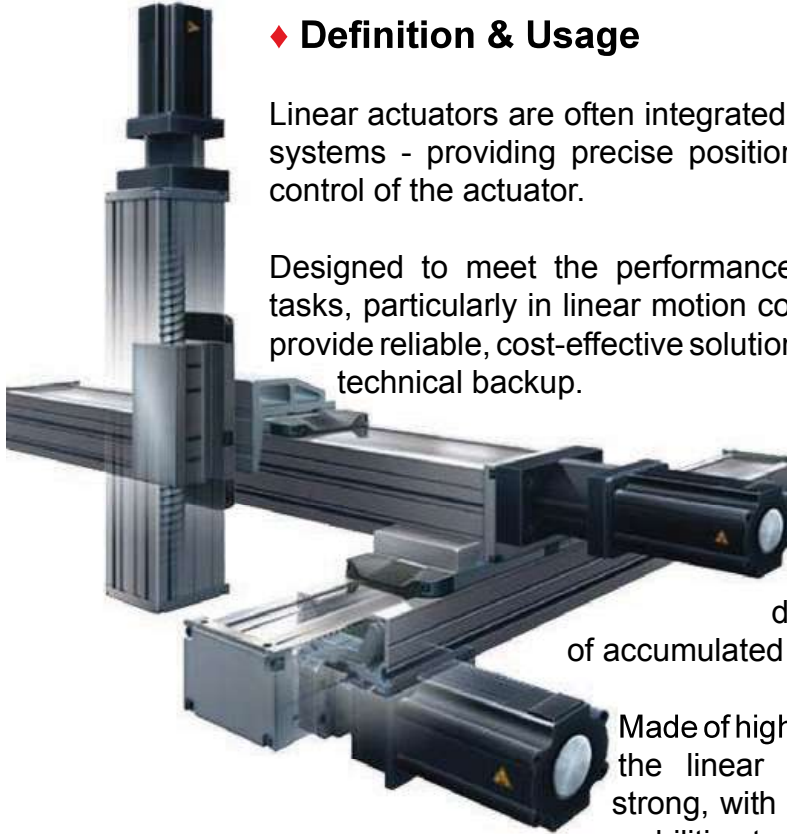
HSK	NSK
WBK17DF	WBK17DF-31
WBK 20DF	WBK 20DF-31
WBK 25DF	WBK 25DF-31
WBK 25DFD	WBK 25DFD-31
WBK 30DF	WBK 30DF-31
WBK 30DFD	WBK 30DFD-31
WBK 35DF	WBK 35DF-31
WBK 35DFD	WBK 35DFD-31
WBK 40DF	WBK 40DF-31
WBK 40DFD	WBK 40DFD-31

◆ **Reference of Axial Load of Fixed-side Type Support Units**
支撑座固定端轴向负荷参考表

支撑座型号 Model No.		轴承 Bearing	静负荷 Static load (kgf)	轴向负荷 Allowable Axial load(kgf)	极限转速 Limiting RPM (RPM)
FK06	EK06	706	106	53	
FK08	EK08	706	148	74	
BK10	AK10	7000A	226	133	16800
FK10	EK10				
BK12	AK12	7001A	305	153	15400
FK12	EK12				
BK15	AK15	7002A	350	175	13300
FK15	EK15				
BK17	FK17	7203A	610	305	11200
		7203B	565	363	7700
BK20		7004A	670	335	10500
FK20	AK20	7204A	845	423	9100
	EK20	7204B	780	501	6650
BK25	FK25	7205A	1050	525	8400
		7205B	960	617	5950
BK30	FK30	7206A	1510	755	7000
		7206B	1380	887	4970
BK35		7207B	1870	1202	4200
BK40		7208B	2340	1504	3710

Linear Actuator

线性致动器



◆ Definition & Usage

Linear actuators are often integrated into sophisticated control systems - providing precise position feedback and accurate control of the actuator.

Designed to meet the performances of today's automation tasks, particularly in linear motion control, our linear actuators provide reliable, cost-effective solutions in addition to competent technical backup.

Both our belt-driven and ballscrew-driven linear modules are designed using optimization designing tools, as a result of accumulated technological expertise.

Made of high-quality aluminium profile, the linear actuators are light and strong, with high speed and accuracy capabilities to satisfy customers' various needs of actuation, speed, payload and travel range.

◆ 定义与用途

线性致动器可提供精确位置反馈和致动器的准确控制，因此经常与精密控制系统组建在一起。

为了达到现今自动化项目的性能表现，尤其是线性运动的控制，我们的线性致动器，在优越的技术支援的前提下，提供了可靠且极具经济效益的解决方案。

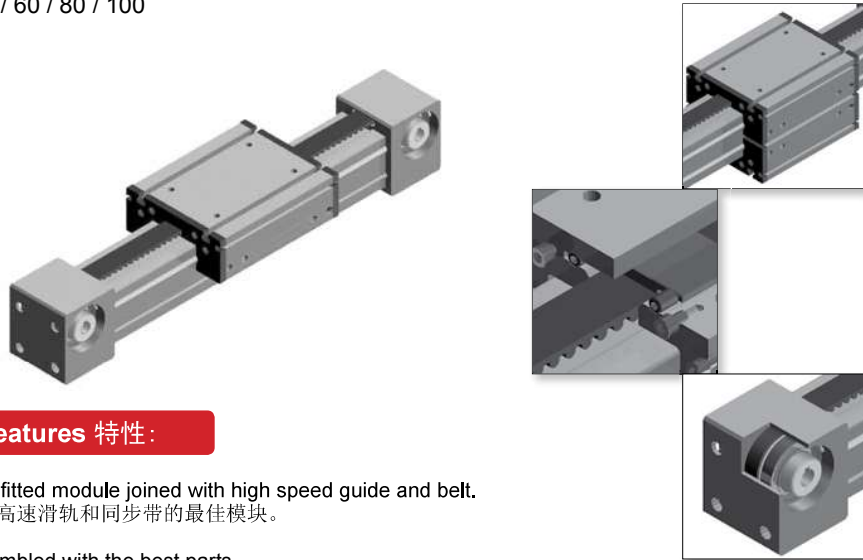
无论是同步带或滚珠丝杠驱动的线性模块，均是运用了最佳的机电设计工具加上累计多年的科技技术与心得的精心设计。

以高品质的铝制柜架为本，轻巧、坚固的线性致动器具有高速及高精度的特点，能满足客户对于驱动力、速度、有效载荷及行程范围的不同需求。

Belt-Driven Linear Module

同步带驱动线性模块

◆ RG-MB Series / 系列
40 / 60 / 80 / 100



>> Features 特性:

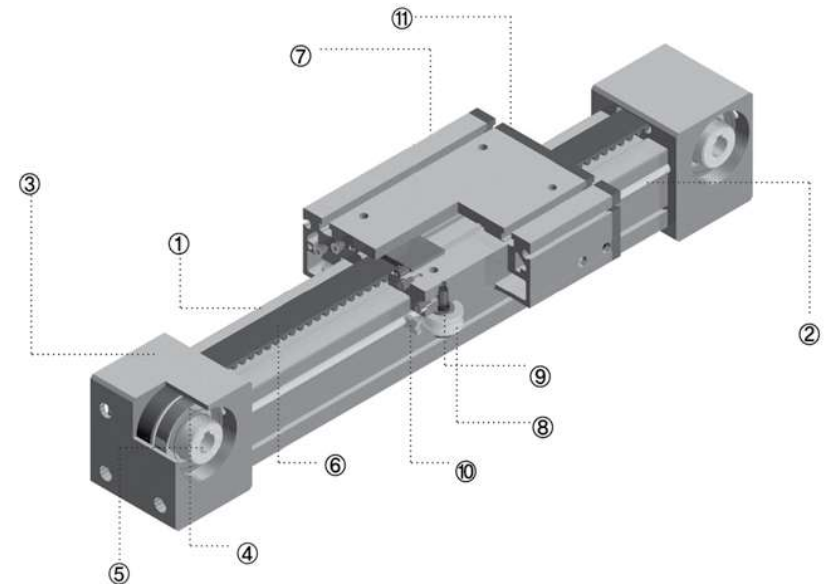
- ◆ Best fitted module joined with high speed guide and belt.
装配高速滑轨和同步带的最佳模块。
- ◆ Assembled with the best parts.
最佳配件组装。
- ◆ Improved time belt.
改良的同步带。
- ◆ Easy maintenance
简易保养。
- ◆ Able to satisfy diversified needs and requirements of customers.
足以满足客户的各种要求。

>> Models 型号:

Model No. 产品型号	Shaft 轴	Slider 滑块	Rail 滑轨	Pulley Box 带轮箱	Sealing 密封
40	Ø6	Chrome-coated Bearing Steel 镀铬涂层轴承钢 (SUJ2)	Anodized Aluminium 阳极氧化铝	Anodized Aluminium 阳极氧化铝	Engineering Plastic 工业塑料
60	Ø10				
80	Ø12				
100	Ø16				

Belt-Driven Linear Module

同步带驱动线性模块



>> Parts 组件:

No. 代号	Parts 组件	No. 代号	Parts 组件	No. 代号	Parts 组件	
1	Rail 滑轨	6	Timing Belt 同步带	10	Wiper-Felt 弹簧垫圈-毛毡	
2	Shaft 轴	7	Slider 滑块		11	Sealing 密封
3	Pulley Box 带轮箱	8	Track Roller 滚轮轴承	9		Special washer for anti-rotating 特殊反旋转平垫圈
4	Pulley Bearing 带轮轴承	5	Pulley 带轮			

>> Types of Slider Block 滑块类型:

S	Standard type slider block 标准型滑块
T	Standard slider + 2 rollers 标准型滑块 + 两列滚轮
H	Standard slider + 4 rollers 标准型滑块 + 四列滚轮

Belt-Driven Linear Module

同步带驱动线性模块

◇ RG-MB 40

>> Technical Data 技术数据:

Speed 速度	最大 Max. 4 m/s	
Acceleration 加速度	最大 Max. 20 m/s ²	
Pulley P.C.D. 带轮 P. C. D.	31.83 mm	
Stroke per Revolution 行程/转	≡ 100mm/rev.	
No-load Torque 无负载扭矩	0.32Nm	
2nd Moment of area 二次截面矩	$I_y = 1.4 \times 10^5 \text{ mm}^4$ $I_z = 1.2 \times 10^5 \text{ mm}^4$	
Weight 重量	Basic weight with zero stroke 行程为零时的基本重量	2.1 kg
	Weight/100mm stroke 100mm行程重量	0.3 kg

◇ RG-MB 60

>> Technical Data 技术数据:

Speed 速度	最大 Max. 5 m/s	
Acceleration 加速度	最大 Max. 40 m/s ²	
Pulley P.C.D. 带轮 P. C. D.	41.83 mm	
Stroke per Revolution 行程/转	≡ 130mm/rev.	
No-load Torque 无负载扭矩	0.61Nm	
2nd Moment of area 二次截面矩	$I_y = 6.8 \times 10^5 \text{ mm}^4$ $I_z = 6.7 \times 10^5 \text{ mm}^4$	
Weight 重量	Basic weight with zero stroke 行程为零时的基本重量	5.6 kg
	Weight/100mm stroke 100mm行程重量	0.5 kg

Belt-Driven Linear Module

同步带驱动线性模块

◇ RG-MB 80

>> Technical Data 技术数据:

Speed 速度	最大 Max. 6 m/s	
Acceleration 加速度	最大 Max. 40 m/s ²	
Pulley P.C.D. 带轮 P. C. D.	61.12 mm	
Stroke per Revolution 行程/转	≡ 192mm/rev.	
No-load Torque 无负载扭矩	0.93Nm	
2nd Moment of area 二次截面矩	$I_y = 21.1 \times 10^5 \text{ mm}^4$ $I_z = 19.5 \times 10^5 \text{ mm}^4$	
Weight 重量	Basic weight with zero stroke 行程为零时的基本重量	12.9 kg
	Weight/100mm stroke 100mm行程重量	0.8 kg

◇ RG-MB 100

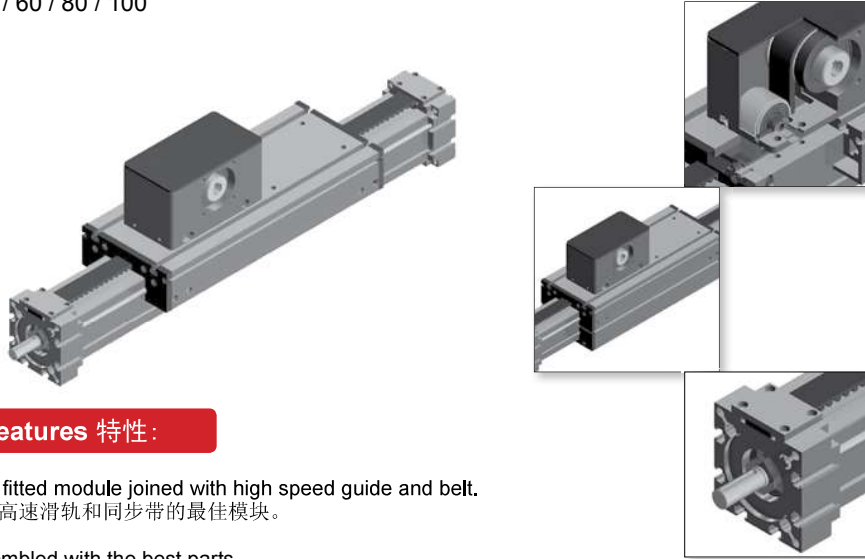
>> Technical Data 技术数据:

Speed 速度	最大 Max. 10 m/s	
Acceleration 加速度	最大 Max. 40 m/s ²	
Pulley P.C.D. 带轮 P. C. D.	81.49 mm	
Stroke per Revolution 行程/转	≡ 256mm/rev.	
No-load Torque 无负载扭矩	1.44Nm	
2nd Moment of area 二次截面矩	$I_y = 54.2 \times 10^5 \text{ mm}^4$ $I_z = 50.5 \times 10^5 \text{ mm}^4$	
Weight 重量	Basic weight with zero stroke 行程为零时的基本重量	28.0 kg
	Weight/100mm stroke 100mm行程重量	1.4 kg

Belt-Driven Linear Module

同步带驱动线性模块

◆ RG-MS Series / 系列
40 / 60 / 80 / 100



>> Features 特性:

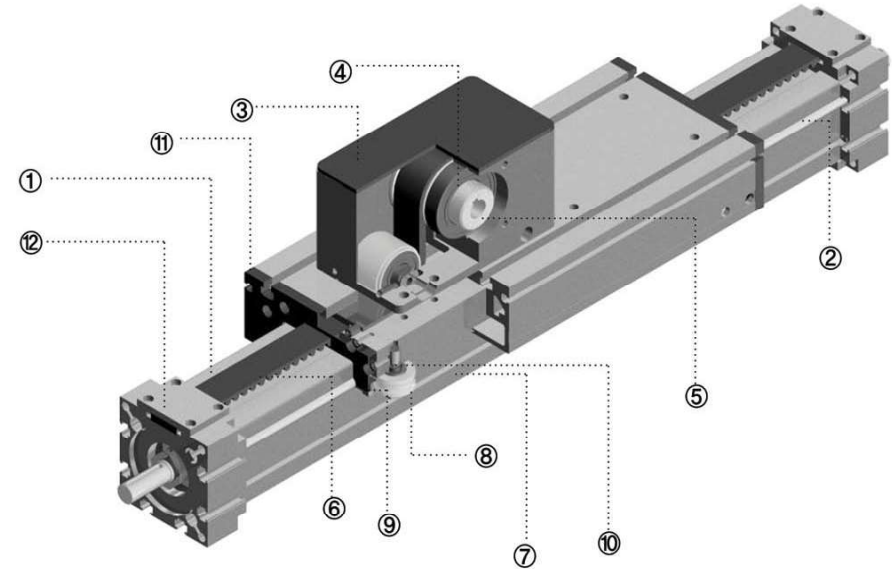
- ◆ Best fitted module joined with high speed guide and belt.
装配高速滑轨和同步带的最佳模块。
- ◆ Assembled with the best parts.
最佳配件组装。
- ◆ Improved time belt.
改良的同步带。
- ◆ Easy maintenance
简易保养。
- ◆ Able to satisfy diversified needs and requirements of customers.
足以满足客户的各种要求。

>> Models 型号:

Model No. 产品型号	Shaft 轴	Slider 滑块	Rail 滑轨	Pulley Box 带轮箱	Sealing 密封
40	Ø6	Chrome-coated Bearing Steel 镀铬涂层轴承钢 (SUJ2)	Anodized Aluminium 阳极氧化铝	Anodized Aluminium 阳极氧化铝	Engineering Plastic 工业塑料
60	Ø10				
80	Ø12				
100	Ø16				

Belt-Driven Linear Module

同步带驱动线性模块



>> Parts 组件:

No. 代号	Parts 组件	No. 代号	Parts 组件	No. 代号	Parts 组件
1	Rail 滑轨	6	Timing Belt 同步带	10	Wiper-Felt 弹簧垫圈-毛毡
2	Shaft 轴	7	Rail 滑轨		11
3	Pulley Box 带轮箱	8	Track Roller 滚轮轴承	12	Bearing Housing 轴承箱
4	Pulley Bearing 带轮轴承	9	Special washer for anti-rotating 特殊反旋转平垫圈		
5	Pulley 带轮				

>> Slider Options 滑块式样:

Module Type 模块式	RG - MS 40/60/80/100	Standard Type - Upper Slider mounted only. 标准型 - 仅在滑轨上部安装滑块
	RG - MSD 40/60/80/100	Slider is mounted on both upper and lower side - suitable for high load and high torque conditions, ease of rail movement with fixing sliders. 滑轨上下均安装滑块-适用于高负载和高扭矩环境, 能在固定滑块的情况下顺畅地运行滑轨。
Rotary Shaft 旋转轴	RG - MS(D) R 40/60/80/100	Rotary shaft mounted hence enabling ease of addition of gripper or other mechanical components. 附有旋转轴, 因而让钳子或其他机械元件的安装更简易。

Belt-Driven Linear Module

同步带驱动线性模块

◇ RG-MS 40

>> Technical Data 技术数据:

Speed 速度	最大 Max. 4 m/s	
Acceleration 加速度	最大 Max. 20 m/s ²	
Pulley P.C.D. 带轮P. C. D.	31.83 mm	
Stroke per Revolution 行程/转	≡ 100mm/rev.	
No-load Torque 无负载扭矩	0.32Nm	
2nd Moment of area 二次截面矩	$I_y = 1.4 \times 10^5 \text{ mm}^4$ $I_z = 1.2 \times 10^5 \text{ mm}^4$	
Weight 重量	Basic weight with zero stroke 行程为零时的基本重量	3.4 kg
	Weight/100mm stroke 100mm行程重量	0.3 kg

◇ RG-MS 60

>> Technical Data 技术数据:

Speed 速度	最大 Max. 5 m/s	
Acceleration 加速度	最大 Max. 40 m/s ²	
Pulley P.C.D. 带轮P. C. D.	41.83 mm	
Stroke per Revolution 行程/转	≡ 130mm/rev.	
No-load Torque 无负载扭矩	0.61Nm	
2nd Moment of area 二次截面矩	$I_y = 6.8 \times 10^5 \text{ mm}^4$ $I_z = 6.7 \times 10^5 \text{ mm}^4$	
Weight 重量	Basic weight with zero stroke 行程为零时的基本重量	7.8 kg
	Weight/100mm stroke 100mm行程重量	0.5 kg

Belt-Driven Linear Module

同步带驱动线性模块

◇ RG-MS 80

>> Technical Data 技术数据:

Speed 速度	最大 Max. 6 m/s	
Acceleration 加速度	最大 Max. 40 m/s ²	
Pulley P.C.D. 带轮P. C. D.	61.12 mm	
Stroke per Revolution 行程/转	≡ 192mm/rev.	
No-load Torque 无负载扭矩	0.93Nm	
2nd Moment of area 二次截面矩	$I_y = 21.1 \times 10^5 \text{ mm}^4$ $I_z = 19.5 \times 10^5 \text{ mm}^4$	
Weight 重量	Basic weight with zero stroke 行程为零时的基本重量	16.9 kg
	Weight/100mm stroke 100mm行程重量	0.8 kg

◇ RG-MS 100

>> Technical Data 技术数据:

Speed 速度	最大 Max. 10 m/s	
Acceleration 加速度	最大 Max. 40 m/s ²	
Pulley P.C.D. 带轮P. C. D.	81.49 mm	
Stroke per Revolution 行程/转	≡ 256mm/rev.	
No-load Torque 无负载扭矩	1.44Nm	
2nd Moment of area 二次截面矩	$I_y = 54.2 \times 10^5 \text{ mm}^4$ $I_z = 50.5 \times 10^5 \text{ mm}^4$	
Weight 重量	Basic weight with zero stroke 行程为零时的基本重量	41.0 kg
	Weight/100mm stroke 100mm行程重量	1.4 kg

Ball Screw-Driven Linear Module

滚珠丝杠驱动线性模块

◆ RG-MZ Series / 系列
40 / 60 / 80 / 100

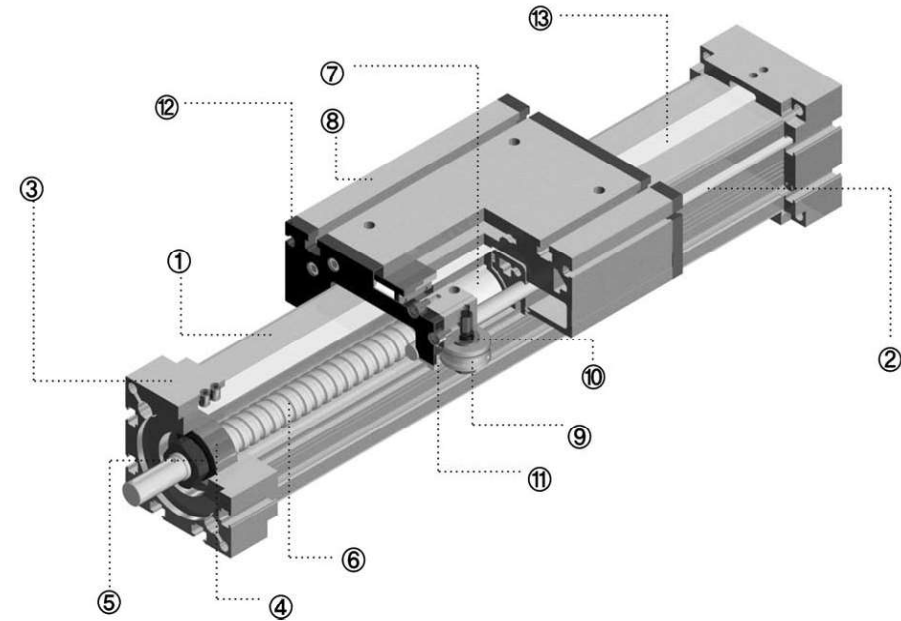


>> Features 特性:

- ◆ Best fitted module joined with high speed guide and belt.
装配高速滑轨和同步带的最佳模块。
- ◆ Assembled with the best parts.
最佳配件组装。
- ◆ Perfect combination of quality performance and cost-effectiveness.
优质性能与高成本效益的完美结合。
- ◆ Able to satisfy diversified needs and requirements of customers.
足以满足客户的各种要求。

>> Model 型号:

Model No. 产品型号	Shaft 轴		Slider 滑块	Rail 滑轨	Pulley Box 带轮箱	Sealing 密封
40	Ø6	Chrome-coated Bearing Steel 镀铬涂层轴承钢 (SUJ2)	Anodized Aluminium 阳极氧化铝	Anodized Aluminium 阳极氧化铝	Anodized Aluminium 阳极氧化铝	Engineering Plastic 工业塑料
60	Ø10					



>> Parts 组件:

No. 代号	Parts 组件	No. 代号	Parts 组件	No. 代号	Parts 组件
1	Rail 滑轨	6	Ballscrew 滚珠丝杠	10	Special washer for anti-rotating 特殊反旋转平垫圈
2	Shaft 轴	7	Ballscrew Nut 滚珠螺母		
3	Bearing Housing 轴承箱	8	Slider 滑块	11	Wiper-Felt 弹簧垫圈-毛毡
4	Bearing 轴承	9	Track Roller 滚轮轴承	12	Sealing 密封
5	Lock Nut 锁紧螺母			13	Stainless Steel Cover 不锈钢防尘条

>> Slider Options 滑块选项:

Module Type 模块式	RG - MZ	Standard Type - Upper Slider mounted only. 标准型-仅在滑轨上部安装滑块
	RG - MZD	Slider is mounted on both upper and lower side - suitable for high load and high torque conditions, ease of rail movement with fixing sliders. 滑轨上下均安装滑块-适用于高负载和高扭矩环境, 能在固定滑块的情况下顺畅地运行滑轨。
Types of Slider Block 滑块类型	RG - MZ(D)-S	Standard type slider block 标准型滑块
	RG - MZ(D)-T	Standard slider + 2 rollers 标准型滑块 + 两列滚轮
	RG - MZ(D)-H	Standard slider + 4 rollers 标准型滑块 + 四列滚轮

Ball Screw-Driven Linear Module

滚珠丝杠驱动线性模块

◆ RG-MZ 40

>> Technical Data 技术数据:

Standard Ball screw 标准滚珠螺母	16 x 5	
Optional Ball screw 可选滚珠螺母	16 x 10	
No-load Torque for 1605 无负载扭矩 (1605)	0.25 Nm	
No-load Torque for 1610 无负载扭矩 (1610)	0.44 Nm	
2nd Moment of area 二次截面矩	$I_y = 1.4 \times 10^5 \text{ mm}^4$ $I_z = 1.4 \times 10^5 \text{ mm}^4$	
Weight 重量	Basic weight with zero stroke 行程为零时的基本重量	1.9 kg
	Weight/100mm stroke 100mm行程重量	0.37 kg

◆ RG-MZ 60

>> Technical Data 技术数据:

Standard Ball screw 标准滚珠螺母	25 x 10	
Optional Ball screw 可选滚珠螺母	25 x 25	
No-load Torque for 1605 无负载扭矩 (1605)	0.8 Nm	
No-load Torque for 1610 无负载扭矩 (1610)	1.4 Nm	
2nd Moment of area 二次截面矩	$I_y = 6.8 \times 10^5 \text{ mm}^4$ $I_z = 7.0 \times 10^5 \text{ mm}^4$	
Weight 重量	Basic weight with zero stroke 行程为零时的基本重量	5.8 kg
	Weight/100mm stroke 100mm行程重量	0.93 kg

Robotics System

机器人系统



Definition & Usage

Robots are used in a wide range of industrial applications.

Automatically controlled, programmable, highly dependable with the capacity to achieve high speed, payload and accuracy are among some of the most desirable characteristics of robots.

Today, with advanced technological expertise, we are able to offer robotics solutions for applications such as welding, painting, assembly, pick and place (such as packaging, palletizing and SMT), product inspection, and testing; all accomplished with high endurance, speed, and precision.

定义与用途

机器人的工业应用范围很广。

可自动化控制，可编程序，高度可靠且有能达到高速、高荷载和高精准性均是工业用机器人最吸引人的特征之一。

今天，以先进科技的专门技术为基础，我们能为多项工业应用例如焊接、喷漆、组装、捡起和放置(例如包装，架装拖盘和SMT)，产品检查和测试等，提供优质的机器人解决方案，确保所有任务均以高耐力、速度和精确度完成。

Cartesian Robot

直角坐标机器人

◆ DRM Series

>> Features

- ◆ Rigid frame and compact size
- ◆ Driving type : Ballscrew, Belt Driving type, Rack&Pinion
- ◆ DRMP : High Precision with positioning repeatability +/-0.005mm
- ◆ DRMC : Clean room specification (Clean class 10)
- ◆ DRMD : Dust proof specification
- ◆ High accurate positioning : C7(+/- 0.02mm), C5(+/- 0.01mm)
- ◆ Stroke : 100~10,000mm (2,000mm at Ballscrew)
- ◆ Speed : Max 2,000mm/s
- ◆ Payload : Up to 300Kg(Horizontal) / 120Kg(Vertical)
- ◆ Customizing design and various assembly type



>> Model List

◆ Ball Screw Type (Single Slider)

Series	Base Width	Type	Motor	Encoder	Speed	Stroke	Options
DRM DRMP	50	S	80	I A	L05 / L10 / L20	100 ~ 1100	L1 L2 L3 K R B
	60				L10	100 ~ 400	
	80				L05 / L10 / L20	100 ~ 1100	
	115						
	130	LP	200				
	160	RP			400		
	200	BP	600			L10 / L20	
			600				
			800				
			800				
250	1000	L10 / L25 / L50	100 ~ 2000				

◆ Belt Type

Series	Base Width	Type	Motor	Encoder	Speed	Stroke	Options
DRM	90	B	400	I A	1800	1000 ~ 2500 2000 1000 ~ 4000 1000 ~ 4500	L1 L2 L3 K R B
	130		600				
	160		800				
	200						
	250						

◆ DRMC Series

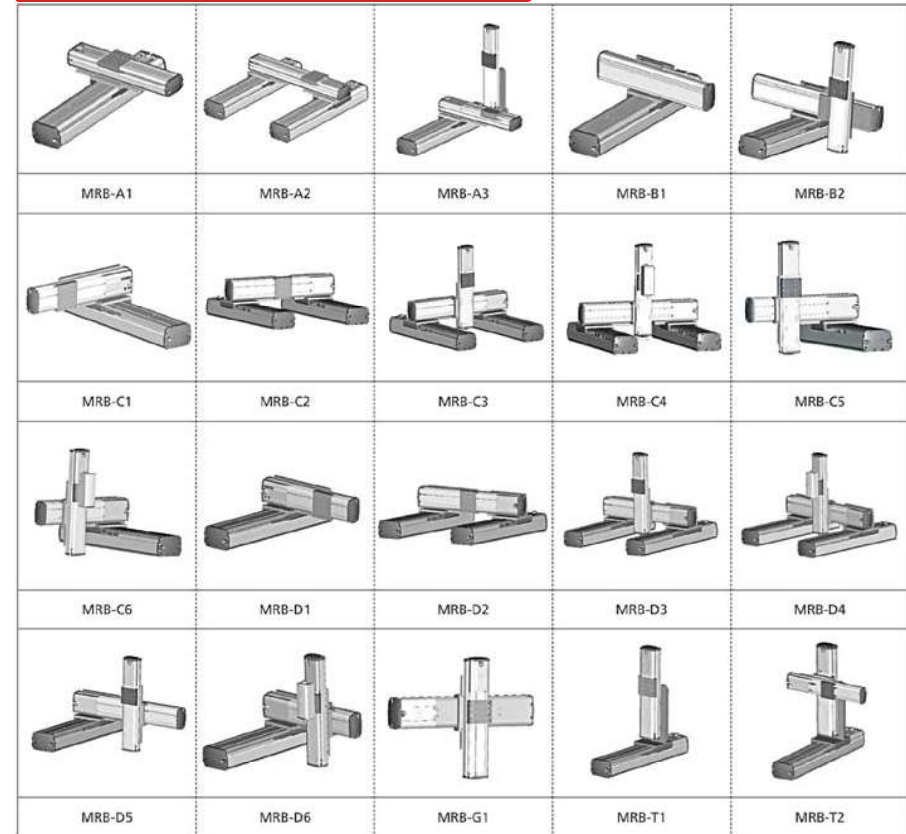
Series	Base Width	Type	Motor	Encoder	Speed	Stroke	Options	
DRMC DRMCP	70	S LP RP BP	80	I A	L10	100 ~ 400	L1 L2 L3 K R B RS	
	88				L05 / L10 / L20	100 ~ 1100		
	120				L05 / L10 / L20	100 ~ 1100		
	140		200		L05 / L10 / L20	100 ~ 1100		
					400	L05 / L10 / L20		100 ~ 1500
						L10 / L20		100 ~ 1500
DRMC	265	S	2000	L10 / L20 / L40	100 ~ 2500			
			2500					
			3000					

* Belt type is available.

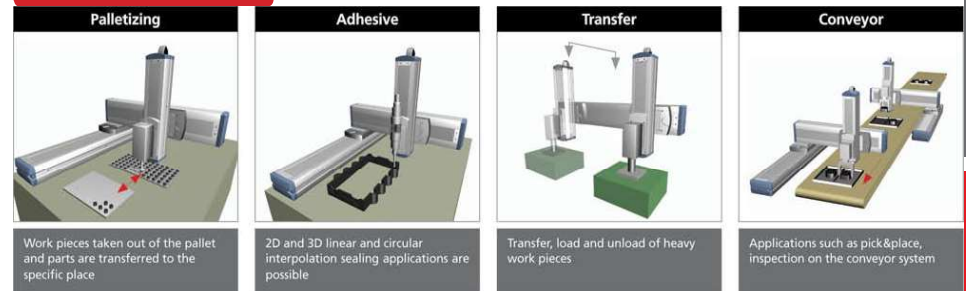
Cartesian Robot

直角坐标机器人

>> Assorted Combinations & Brackets



>> Applications



Desktop Robot

台式机器人

◆ DTR Series

>> Features

DTR series is designed to combine high precision and accurate positioning functions into compact unit with high rigid structure. DTR series has various models of servo motor with ball screw types and step motor with belt types models of and they are very useful and achieve the best performance.

◆ Compact design

Minimize whole dimension by cable treatment into the Robot and save working space*



DTR2(3)-3310/4410-T(ET,S) DTR4-3510-S series DTR3-2210-T(ET) series DTR3-2205-M series

* Cables of the model 2205/2210 series and 4 axes (XYZR) of DTR series are exposed

◆ High Rigid Structure

Aluminium extruded material is employed on the base and gantry structure for all models enhance rigidity.

The servo motor and ball screw types of DTR are a good solution for the required applications of high load such as automotive industry.

◆ Various Line-ups

The DTR series provide various products ranges. Belt driven with Encoder Stepper Motor type, belt driven with Stepper Motor type, ball screw drive with Servo Motor type, 2 axes, 3 axes, 4 axes, and Dual-X axes are available.

>> Model List

Series	Drive	Model	Arm Length (mm)				Allowable Axis	
			X axis	Y axis	Z axis*	R axis		
DTR	Belt & Stepper motor	2205	200	200	50	-	3 axes (XYZ)	
		2210	200	200	100	-	2 axes (XY)	
		2210					3 axes (XYZ)	
		3310	300	300	100	+/- 360°C	2 axes (XY)	
		3310					3 axes (XYZ)	
		3310					4 axes (XYZR)	
		4410					2 axes (XY)	
		4410	400	400	100	+/- 360°C	3 axes (XYZ)	
		4410					4 axes (XYZR)	
		4410					2 axes (XY)	
		4410					3 axes (XYZ)	
		Belt & Encoder Stepper motor	2210	200	200	100	-	2 axes (XY)
	2210		3 axes (XYZ)					
	3310		300	300	100	+/- 360°C	2 axes (XY)	
	3310						3 axes (XYZ)	
	3310						4 axes (XYZR)	
	4410						2 axes (XY)	
	4410		400	400	100	+/- 360°C	3 axes (XYZ)	
	4410						4 axes (XYZR)	
	4410						2 axes (XY)	
	4410						3 axes (XYZ)	
	Ball screw & Servo motor		3310	300	300	100	+/- 360°C	2 axes (XY)
			3310					3 axes (XYZ)
		3310	4 axes (XYZR)					
4410		400	400	100	+/- 360°C	2 axes (XY)		
4410						3 axes (XYZ)		
4410						4 axes (XYZR)		
3510	300/300	500	100	-	4 axes (XYZR)			

>> Applications

Dispensing	Screw tightening	Cutting	Vision inspection
High performance of 2D and 3D linear and circular interpolation sealing and adhesion, coating	Fastening and unfastening screws into electric components and automotive parts	PCB cutting without stress and cracks	Checking PC boards for mounting defects Provides easy teaching and automatic transfer function for off-positioned work piece on the fixture with CCD camera and height sensor.

Scara Robot

水平多关节机器人

◆ DSM Series

>> Features

This series provides various model range from 250mm to 1000mm in the arm length and up to 20kg in maximum payload. It used absolute and incremental specification used. Standard and clean room/dust proof specifications are available.

◆ Compact and rigid design

The DSM series is designed to save the space efficiently.

The cable of the models (DSM-6020/7020/8020/9020/K1020) is enclosed into the robot and it allows for flexible design and space in the system.

The DSM-2515/3515/4515 series enhanced rigidity in a light weight by comprising aluminium extruded material.

DSM-6020/7020/8020/9020/K1020 series is capable of transferring high load up to 20kg.

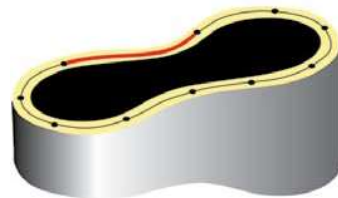
◆ Pursuing ease-of-use

The DSM series has standard user tubing and wiring.

DSM-2515/3515/4515 has the same air tubes as $\Phi 4 \times 3$ and 16 wires and DSM-6020 and higher models have as $\Phi 6 \times 4$ and 24 wires

◆ High performance of interpolation

The DSM series can perform three-dimensional arc/pass motions to allow for easy palletizing and dispensing. The robot can also provide tool offset and R axis position compensation function



Scara Robot

水平多关节机器人

◆ DSM Series

>> Model List

Series	Model	Arm Length (mm)					Encoder	Maximum Payload (kg)	Option
		X axis	Y axis	Z axis*	R axis	T axis			
DSM DSMC	2515	125	125	100 150			Absolute	3	
	3515	225	125						
	4515	250	200						
DSM DSM(H)	6020	300	300	200 300	+/- 360°	Absolute Incremental	5 (20)**	05 10	
	7020	400	300						
	8020	400	400						
	9020	500	400						
	K1020	500	500						

* Z axis of all models is using a brake motor
** The maximum payload of DSM and DSMH is each 5kg and 20kg.

>> Applications

<p>Palletizing</p> <p>Transfer work pieces between pallets</p>	<p>Sealing</p> <p>Sealing, adhesion application using 3D interpolation</p>	<p>Assembly</p> <p>In line assembly and independent cell unit assembly</p>	<p>Screw tightening</p> <p>Provide higher performance to screw tightening application using torque control</p>
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Single Axis Controller Robot

单轴控制器

◆ iMS-J Series /系列



>> Features

iMS-J series is a single axis controller which is characterized by high speed, high accuracy, and motion stability because it adopts the latest 32bit RISC CPU and intelligent power module.

1. All in One - Control system including motion control, servo amp, and sequence function
2. Various Application - Synchronous operation, position transfer by bit Transfer by external pulse without motion operation.
3. Easy Application - Torque sensing and various outputs by time or interval
4. Remote control and programming by RS232/422 interface
5. Easy operation and monitoring by touch screen
6. Various motor brands compatible (DASA, SAMSUNG, PANASONIC, TAMAGAWA etc.)
7. User can set basic input bit and output bit.
8. Efficient scalability for feeder unit, IO transmitter, extension IO and so on
9. I/O control by CC-Link or ProfiBus converter.

Multi Axis Controller Robot

多轴控制器

◆ iMS-Σ Series /系列



>> Features

iM-Σ series is characterized by high speed, high accuracy, and motion stability because it adopts high performance of a digital amplifier which is controlled by 16 and 32 bit DSP. It is designed to control from 2-axis robot to 8-axis robot or 8 single axes robot at once.

1. Cost effective of all-in-One functions

The iM-Σ series controller combines the functions of motion control, servo drive, and PLC function into a compact unit. Therefore, iM-Σ controller offers high performance with cost-effectiveness

2. Possible to control multi axes of Cartesian robots, Desktop robots, SCARA robots, and Linear servo motor Cartesian robots

The iM-Σ series are capable of controlling more number of 2 axes of the DRM, DRMC, DTR (Built-in), DSM and DLM series robots at the same time.

3. Multitasking

The iM-Σ controller executes each different 4 robot motion programs with maximum 8axes, simultaneously and independently.

4. Various options and extensive usage

The iM-Σ can connect touch screen, CCD camera, magnetic sensor, photo sensor, solenoid, MPG etc. It accommodates installation of extension board up to 8 axes and network options (CC-Link, ProfiBus) are selectable.

5. User friendly software

The iM-Σ series has different types of software to use easy and enhance system performance. It provides the general purpose software, dispensing software, and screw tightening software, and also PC software.

Servo Motor

伺服驱动器



AC Servo Motor

The rated specifications of standard servo drive:.

- ◆ High-efficiency power transformation technologies realized by developing dedicated ASIC featuring latest control theory.
- ◆ Diversified functions added and convenience of use, strengthened by the use of large-capacity flash memory.
- ◆ Precision control realized by the application of high-performance control algorithm.
- ◆ Additional services provided through various kinds of communication options. (PC Communication, Touch Screen, High-order Network Communication)
- ◆ Loader (6 digits) is basically mounted for the convenience of use
- ◆ Various menu functions that can be applied instantly after changing.

Servo Motor

伺服驱动器

◆ 30W~37kW Servo Motor & Drive released

- ◆ Provide a wide range of selection with various series
- ◆ 40 Flange 30W ~ 280 Flange 37kW
- ◆ Adopted core-dividing type by using the most advanced tooling technology
- ◆ Realized high efficiency & compact size by adopting high precision winding
- ◆ Motor's life extended by the use of F-class insulation against B-class temperature rise
- ◆ Suitable for high precision control thanks to the fabricating technology & quality control
- ◆ High torque output is possible at a smaller size by adopting neodymium permanent magnet of highest-performance in its class
- ◆ Provide exclusive models with various structures & characteristics



◆ Spinner Motor

- ◆ Spinner Motor for semi-conductor equipment 8" & 12" developed
- ◆ Used at Coater, Developer & Scrubber
- ◆ Realized high instantaneous acceleration characteristic- higher than 100,000 rps
- ◆ Manufactured custom made-spinner motor in response to customer's demands
- ◆ Secured various diameters of hollow shaft as per customer's requirement
- ◆ Environment-resistance strengthened by adopting magnetic fluid seal
- ◆ Anti-corrosion strengthened by the special coating process on the surface



Servo Motor

伺服驱动器

◇ Hollow Shaft Motor

- Provide various diameters of hollow shaft (Max. Ø50- Ø130 Flange)
- Realized a compact size by the use of high- performance permanent magnet
- Compact design by adopting an exclusive encoder
- Motor's life extended by the use of F-class insulation against B-class temperature rise
- Designing various shapes of Exclusive Motor(customized type) is provided for customer's requirement



◇ Motor Parts



Servo Motor

伺服驱动器

◇ Feature for Servo System

Servo Motor

APM — **S** **B** **04** **A** **D** **K** **1** **G2** **3**

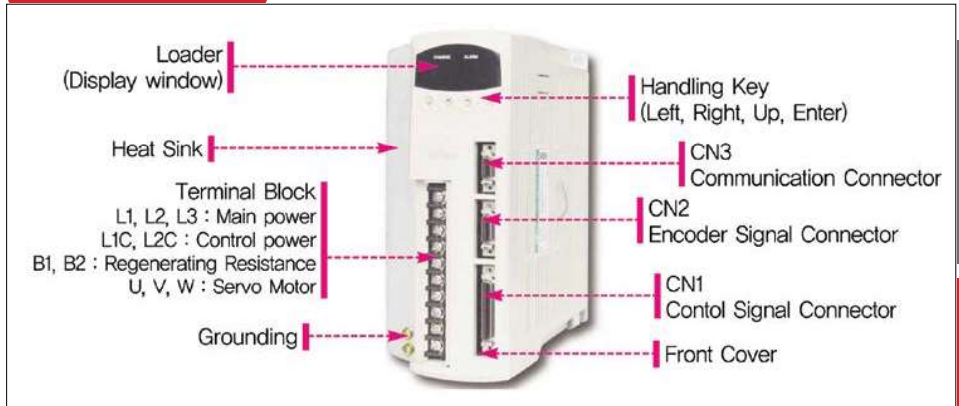
Flange Size	Rated Rotation Speed	Shape of Shaft	Speed Reducer (Gearbox)
A : 40 Flange B : 60 Flange C : 80 Flange E : 130 Flange F : 180 Flange G : 220 Flange H : 250 Flange J : 280 Flange	A : 3000 rpm D : 2000 rpm G : 1500 rpm M : 1000 rpm	N : Straight K : One Side Round Key (Standard) L : L Cut D : D Cut T : Taper Shape R : Both Sides Round Key H : Hollow Shaft	None : No Reducer G2 : For General Industry (Flange Mount) G3 : Precision Gearbox (Flange Mount)
Motor Shaft	Motor Capacity	Encoder Type (Note1)	Existence of Oil Seal/Brake (Note2)
S : Solid Shaft H : Hollow Shaft	R3 : 30W R5 : 50W 01 : 100W 02 : 200W 04 : 400W 05 : 450W 06 : 550W/600W 07 : 650W 08 : 750W/800W 09 : 850W/900W 10 : 1,000W 110 : 11,000W 150 : 15,000W 220 : 22,000W 300 : 30,000W 370 : 37,000W	A : Inc, 1,024 P/R(15 Lines) B : Inc, 2,000 P/R(15 Lines) C : Inc, 2,048 P/R(15 Lines) D : Inc, 2,500 P/R(15 Lines) E : Inc, 3,000 P/R(15 Lines) F : Inc, 5,000 P/R(15 Lines) G : Inc, 6,000 P/R(15 Lines) K : Abs, 2,048 P/R L : Abs, 4,096 P/R S : Inc, 2,000 P/R(9 Lines) T : Inc, 2,048 P/R(9 Lines) U : Inc, 2,500 P/R(9 Lines) V : Inc, 3,000 P/R(9 Lines)	None : None 1 : Oil Seal Attached 2 : Brake Attached(DC 24V) 3 : Oil Seal, Brake Attached(DC 24V) 4 : Brake Attached(DC 90V) 5 : Oil Seal, Brake Attached(DC 90V)
			Reduction ratio
			3 : 1/3 10 : 1/10 ...

Note1 Standard Encoder type for Motor Inc, 3,000P/R(15 Lines)
40 Flange : Inc, 2,048P/R(15Lines)
3,000 & Over P/R is impossible
60, 80 Flange : Inc, 2,500P/R(15Lines)
5,000 & Over P/R is impossible
130, 180, 220 Flange : Inc, 3,000P/R(15Lines)

Note2 Brake Power Supply
40, 60, 80, 130, 180 Flange : DC 24V
220 Flange : DC 90V

Note3 SA, SB, SC, SE Models : Approved by UL
Note4 Gearheaded Motor : Contact to Mecapion

◇ Drive Parts



Mechatronics 机电

Mechatronics 机电

>> Assorted Combinations & Brackets

Servo Motor				Applicable drive		Encoder Used		IP grade			
Rated Speed (r/min)	Maximum Speed (r/min)	Flange	Capacity (kW)	Model (APM-)	Model (APD-)	Standard Incremental	Standard Absolute				
3,000	5,000	□40	0.03	SAR3A	VS/VP/VKR5	·15pin type ·2,048 P/R	·N/A	IP 55			
			0.05	SAR5A	VS/VP/VKR5						
			0.1	SA01A	VS/VP/VK01						
		□60	0.1	SB01A	VS/VP/VK01	·15pin type ·2,500 P/R	·13pin type ·2,048 P/R ·11/13bit		IP 55		
			0.2	SB02A	VS/VP/VK02						
			0.4	SB04A	VS/VP/VK04						
			0.4	SC04A	VS/VP/VK04						
		□80	0.6	SC06A	VS/VP/VK04	·15pin type ·3,000 P/R	·13pin type ·2,048 P/R ·11/13bit		IP 65		
			0.8	SC08A	VS/VP05						
			1.0	SC10A	VS/VP10						
			0.9	SE09A	VS/VP10						
		□130	1.5	SE15A	VS/VP15	·15pin type ·3,000 P/R	·13pin type ·2,048 P/R ·11/13bit		IP 65		
			2.2	SE22A	VS/VP20						
			3.0	SE30A	VS/VP35						
			3.0	SF30A	VS/VP35						
		□180	5.0	SF50A	VS/VP50						
2,000	3,000	□80	0.3	SC03D	VS/VP/VK04	·15pin type ·2,500 P/R	·13pin type ·2,048 P/R ·11/13bit	IP 65			
			0.45	SC05D	VS/VP/VK04						
			0.55	SC06D	VS/VP05						
			0.65	SC07D	VS/VP05						
		□130	0.6	SE06D	VS/VP05	·15pin type ·3,000 P/R	·13pin type ·2,048 P/R ·11/13bit				
			1.1	SE11D	VS/VP10						
			1.6	SE16D	VS/VP15						
			2.2	SE22D	VS/VP20						
	□180	2.2	SF22D	VS/VP20							
		3.5	SF35D	VS/VP35							
		5.5	SF55D	VS/VP50							
		7.5	SF75D	VS/VP75							
	2,500	3,000	□220	2.2	SG22D	VS/VP20					
	3,000			3.5	SG35D	VS/VP35					
				2,500	5.5	SG55D				VS/VP50	
	7.5				SG75D	VS/VP75					
1,500	3,000	□130	0.45	SE05G	VS/VP05	·15pin type ·3,000 P/R	·13pin type ·2,048 P/R ·11/13bit	IP 65			
			0.85	SE09G	VS/VP10						
			1.3	SE13G	VS/VP15						
			1.7	SE17G	VS/VP20						
		□180	1.8	SF20G	VS/VP20						
			2.9	SF30G	VS/VP35						
			4.4	SF44G	VS/VP50						
			6.0	SF60G	VS/VP75						
	2,500	3,000	□220	7.5	SF75G	VS/VP110					
				2.0	SG20G	VS/VP20					
				3.0	SG30G	VS/VP35					
				4.4	SG44G	VS/VP50					
	2,500	2,000	□220	6.0	SG60G	VS/VP75					
				8.5	SG85G	VS/VP110					
				11.0	SG110G	VS/VP150					
				15.0	SG150G	VS/VP150					
2,000	2,000	□250	22.0	SH220G	VS220						
			30.0	SH300G	VS300						
			37.0	SJ370G	VS370						
1,000	2,000	□130	0.3	SE03M	VS/VP/VK04	·15pin type ·3,000 P/R	·13pin type ·2,048 P/R ·11/13bit	IP 65			
			0.6	SE06M	VS/VP05						
			0.9	SE09M	VS/VP10						
			1.2	SE12M	VS/VP15						
		□180	1.2	SF12M	VS/VP15						
			2.0	SF20M	VS/VP20						
			3.0	SF30M	VS/VP35						
			4.4	SF44M	VS/VP50						
		□220	1.2	SG12M	VS/VP15						
			2.0	SG20M	VS/VP20						
			3.0	SG30M	VS/VP35						
			4.4	SG44M	VS/VP50						
			6.0	SG60M	VS/VP75						
3,000	5,000	□60	0.1	HB01A	VS/VP/VK01	·15pin type ·1,024 P/R	·N/A	IP 55			
			0.2	HB02A	VS/VP/VK02						
			0.4	HB04A	VS/VP/VK04						
		□130	0.9	HE09A	VS/VP10						
			1.5	HE15A	VS/VP15						



HISAKA

www.hisaka.com.sg

Regional Contacts 区域网络:

▪ *Singapore* 新加坡

HISAKA (Singapore) Pte Ltd (HQ)

亿萨佳(新加坡)私人有限公司(总部)

63 Sungei Kadut Loop, Hisaka Industrial Building, Singapore 729484

亿萨佳工业大楼, 双溪加株环道63号, 新加坡 729484

Tel: +65 6455 1311

Fax: +65 6455 0311

Email: info@hisaka.com.sg

Web: www.hisaka.com.sg

▪ *China* 中国

HISAKA Mechatronic (Suzhou) Co., Ltd

亿萨佳机电科技(苏州)有限公司

No. 665 Feng Ting Avenue, Suzhou SIP, Jiangsu Province, P.C. 215122, P.R. China

苏州市苏州工业园区葑亭大道665号, 邮编215122, 苏州, 中国

Tel: +86-512-6296 9222

Fax: +86-512-6296 9200

Email: info@hisaka.com.cn

Web: www.hisaka.com.cn