

标准滑动丝杆

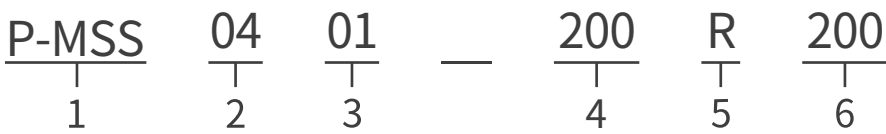
Standard sliding screw

微型树脂滑动丝杆P-MSS系列

Miniature Resin Sliding Screw P-MSS Series

标准滑动丝杆标准库存品

公称型号的构成 Model number notation



- 1 系列符号
- P-MSS: PPS材质
- M-MSS: MC703HL材质
- 2 丝杆轴公称外径(mm)
- 3 导程(mm)
- 4 螺纹部长度(mm)
- 5 螺纹旋向(仅右旋)
- 6 丝杆轴总长(mm)

- 1 Series symbols
- P-MSS: PPS material
- M-MSS: MC703HL material
- 2 Nominal Outside Diameter of Screw Shaft (mm)
- 3 Lead(mm)
- 4 Thread length (mm)
- 5 Thread direction (Right-hand only)
- 6 Screw shaft total length(mm)

精度等级和轴向间隙

P-MSS系列树脂导程丝杆的精度等级以滚珠丝杆的Ct7为准。轴向间隙为0.02-0.07mm，也可以通过选择无齿侧间隙型，将轴向齿隙设置为0。

Accuracy Grade & Axial play

The precision grade of P-MSS series resin lead screw is subject to Ct7 of ball screw. The axial clearance is 0.02-0.07mm, and the axial clearance can also be set to 0 by selecting the toothless side clearance type.

材质

P-MSS系列树脂导程丝杆轴采SUS304/SUS303，螺母采用PPS/MC703HL材质。

Material

P-MSS series resin lead screw shaft adopts SUS304/SUS303, and nut adopts PPS/MC703HL material.

润滑

P-MSS系列树脂导程丝杆涂抹润滑剂后，运行更顺畅。

Lubrication

The P-MSS series resin lead screw runs more smoothly after being coated with lubricant.

轴端形状

P-MSS系列的轴端形状为进行标准，委托本司进行追加工时，请附上指示轴端形状的图纸。

Shaft End Shape

The shape of the shaft end of the P-MSS series is standard. We are entrusted with additional working hours. Please attach the drawing indicating the shape of the shaft end.

交货期快

轴端没有加工完成的P-MSS系列已经标准化，常年备有库存，交货及时。丝杆和螺母，可以单独订货。

Fast Delivery Time

The P-MSS series with unfinished shaft end has been standardized. It is kept in stock all the year round and delivered on time. Screw and nut can be ordered separately.

P-MSS0401

Shaft dia.(轴径) ϕ 4

Lead(导程)1mm

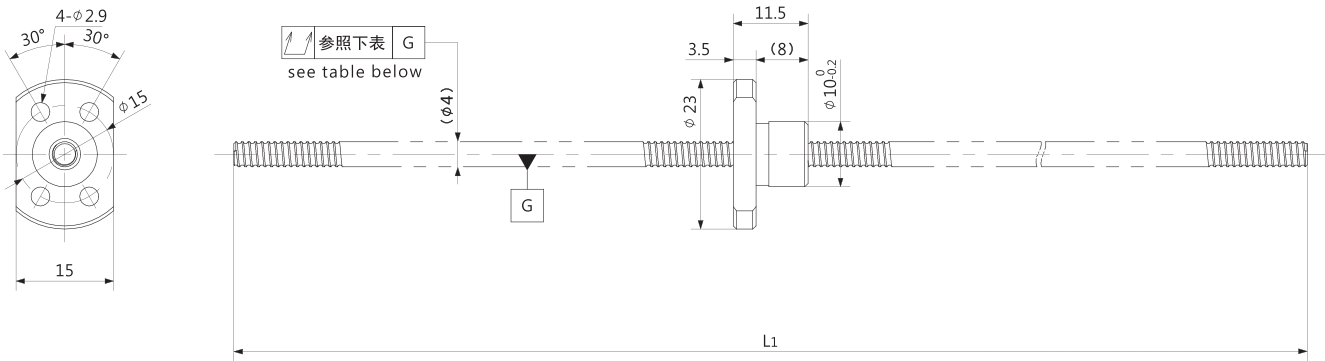
C7

P-MSS0402

Shaft dia.(轴径) ϕ 4

Lead(导程)2mm

C7

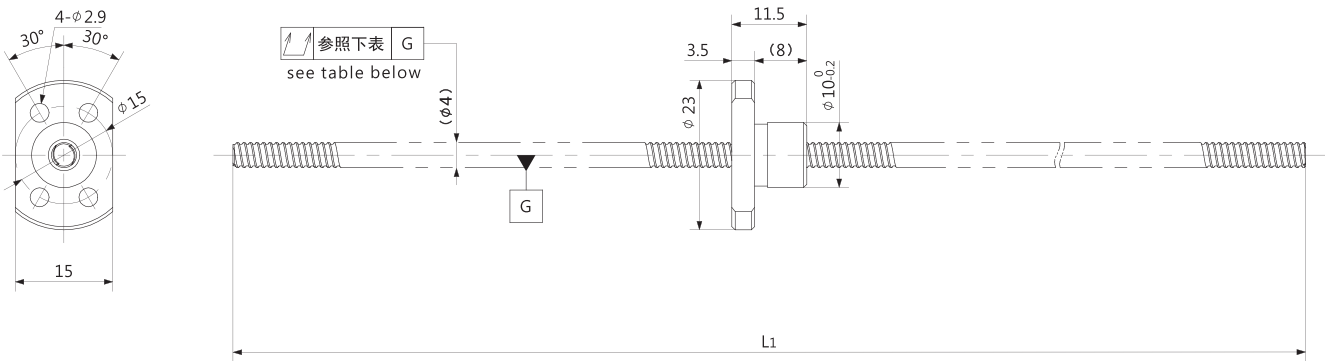


Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩 (最大)		180N.mm
Efficiency 丝杆效率		45%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 ↗↘	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0401-1200R1200C7	1185	Ct7	1200	±0.208	0.052	0.150	~0.070	50	2500

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。



Unit (单位): mm

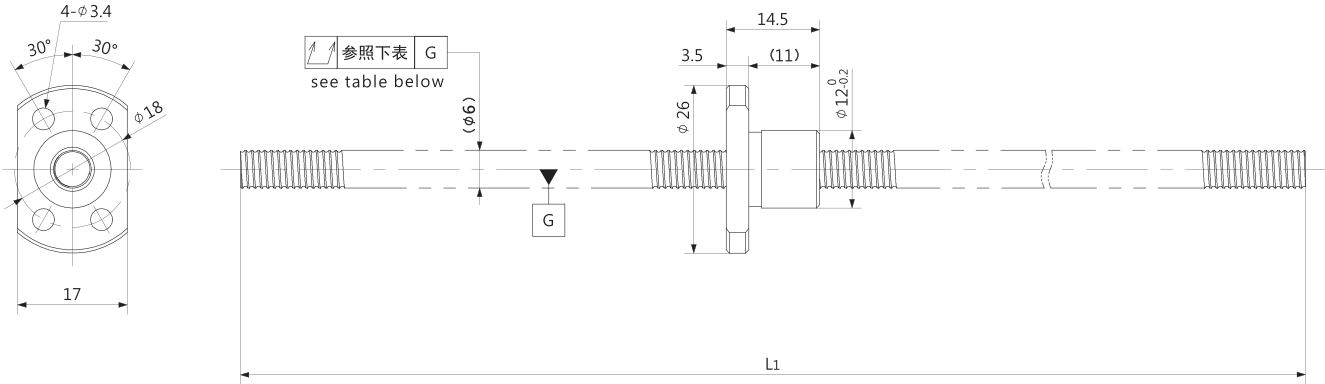
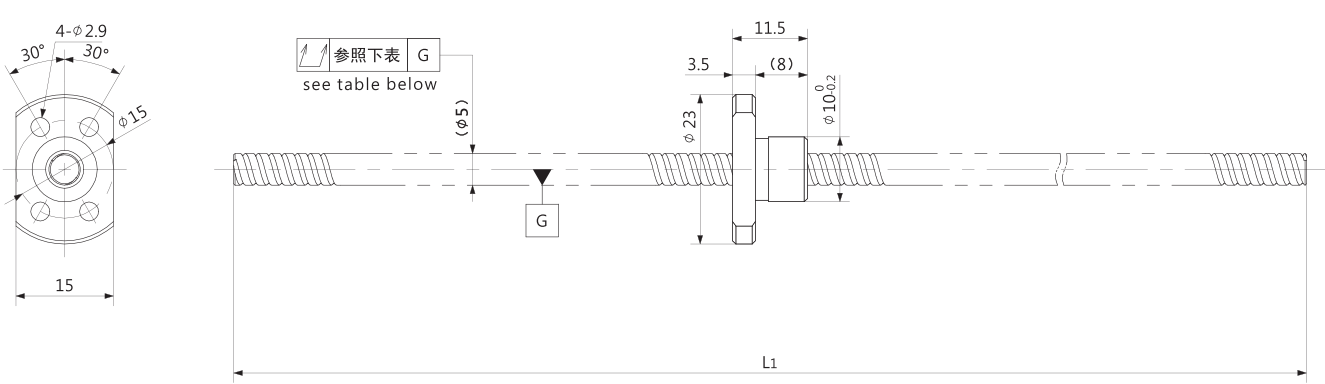
Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		2
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩 (最大)		180N.mm
Efficiency 丝杆效率		70%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 ↗↘	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0402-1200R1200C7	1185	Ct7	1200	±0.208	0.052	0.150	~0.070	60	2500

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0504 | Shaft dia.(轴径) $\phi 5$ | Lead(导程)4mm | C7 |

P-MSS0601 | Shaft dia.(轴径) $\phi 6$ | Lead(导程)1mm | C7 |



Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		2
Thread direction 螺纹旋向		Right 右旋
Tighttning Torque(max) 紧固扭矩 (最大)		180N.mm
Efficiency 丝杆效率		85%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Tighttning Torque(max) 紧固扭矩 (最大)		400N.mm
Efficiency 丝杆效率		40%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 ↗	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0504-1200R1200C7	1185	Ct7	1200	±0.208	0.052	0.150	~0.070	60	2500

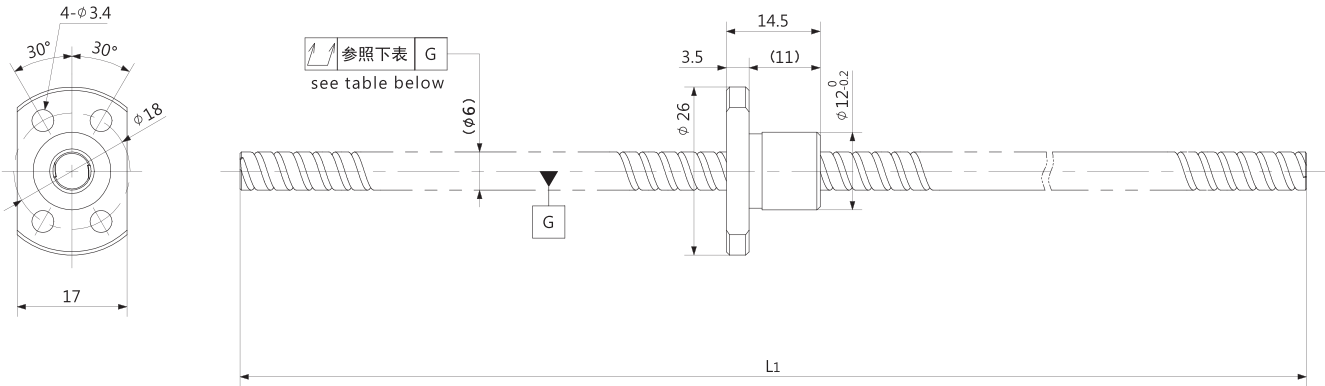
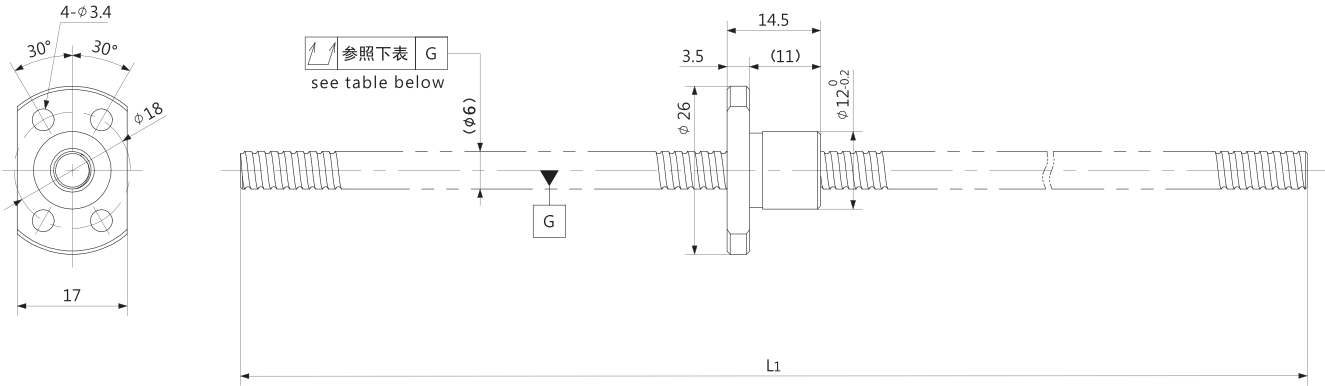
Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 ↗	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0601-1200R1200C7	1180	Ct7	1200	±0.208	0.052	0.150	~0.070	110	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0602 | Shaft dia.(轴径) $\phi 6$ | Lead(导程)2mm | C7 |

P-MSS0606 | Shaft dia.(轴径) $\phi 6$ | Lead(导程)6mm | C7 |



Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩 (最大)		400N.mm
Efficiency 丝杆效率		55%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		2
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩 (最大)		400N.mm
Efficiency 丝杆效率		60%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 ↗	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0602-1200R1200C7	1180	Ct7	1200	±0.208	0.052	0.150	~0.070	60	2000

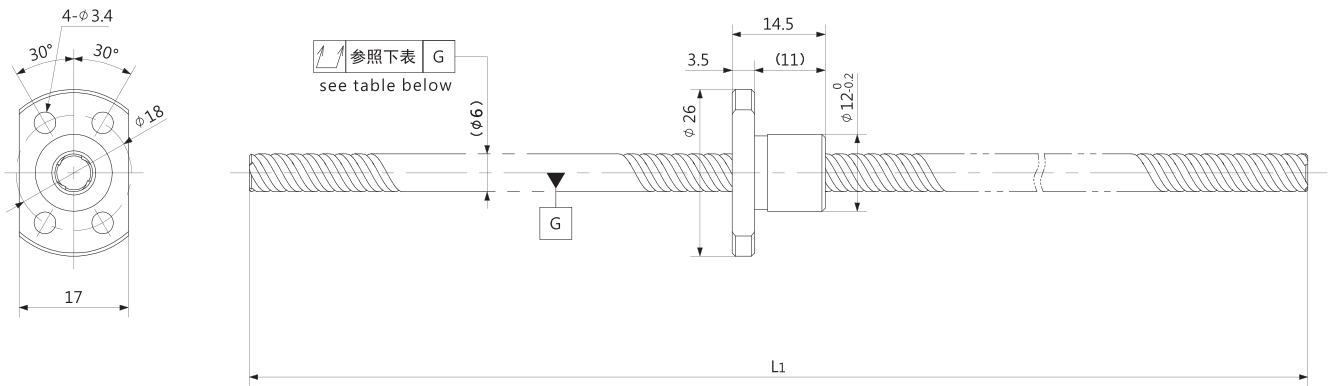
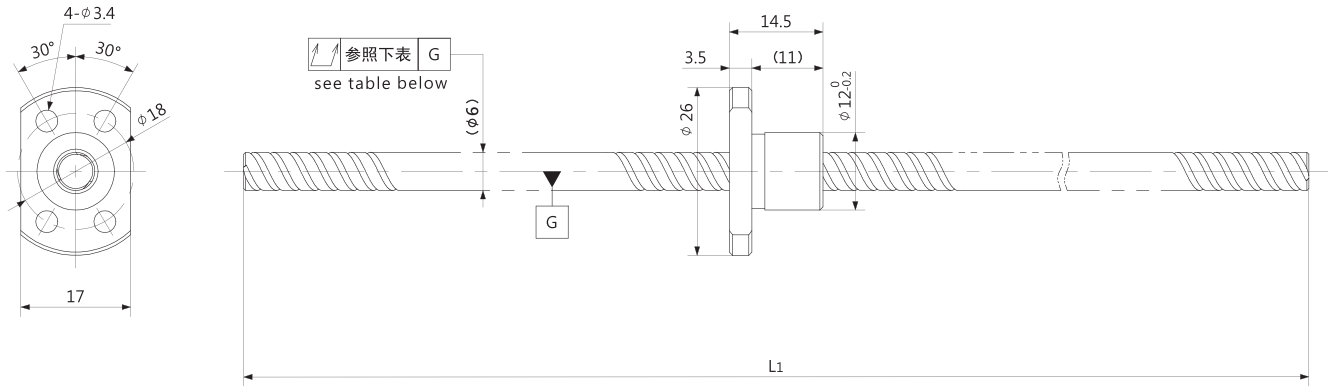
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Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 ↗	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0606-1200R1200C7	1180	Ct7	1200	±0.208	0.052	0.150	~0.070	50	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0609 | Shaft dia.(轴径) ϕ 6Lead(导程)9mm | C7 |

P-MSS0610 | Shaft dia.(轴径) ϕ 6Lead(导程)10mm | C7 |



Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		3
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩（最大）		400N.mm
Efficiency 丝杆效率		85%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		4
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩（最大）		400N.mm
Efficiency 丝杆效率		85%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Permissible Axial Load 许用轴向负载	Permissible Revolution 许用转速
			L ₁	Travel deviation 代表移动量误差	Variation 波动				
P-MSS0609-1200R1200C7	1180	Ct7	1200	±0.208	0.052	0.150	~0.070	90	2000

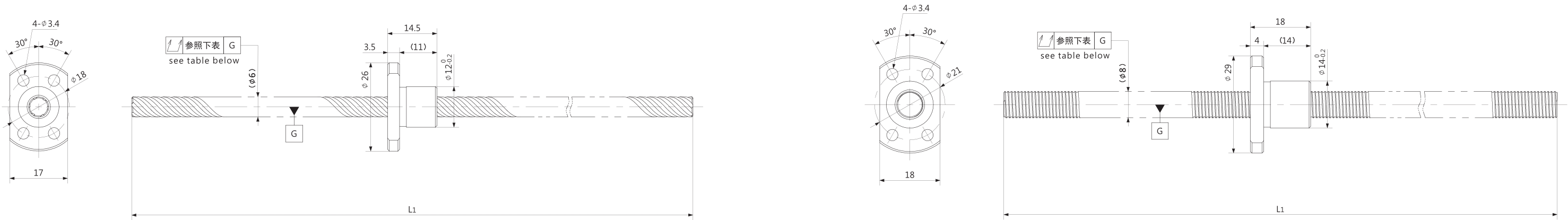
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Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Permissible Axial Load 许用轴向负载	Permissible Revolution 许用转速
			L ₁	Travel deviation 代表移动量误差	Variation 波动				
P-MSS0610-1200R1200C7	1180	Ct7	1200	±0.208	0.052	0.150	~0.070	100	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0618 | Shaft dia.(轴径) $\phi 6$ | Lead(导程)18mm | C7 |

P-MSS0801 | Shaft dia.(轴径) $\phi 8$ | Lead(导程)1mm | C7 |



Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		6
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩（最大）		400N.mm
Efficiency 丝杆效率		85%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩（最大）		400N.mm
Efficiency 丝杆效率		30%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Permissible Axial Load 许用轴向负载 N	Permissible Revolution 许用转速 rpm
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				
P-MSS0618-1200R1200C7	1180	Ct7	1200	±0.208	0.052	0.150	~0.070	110	2000

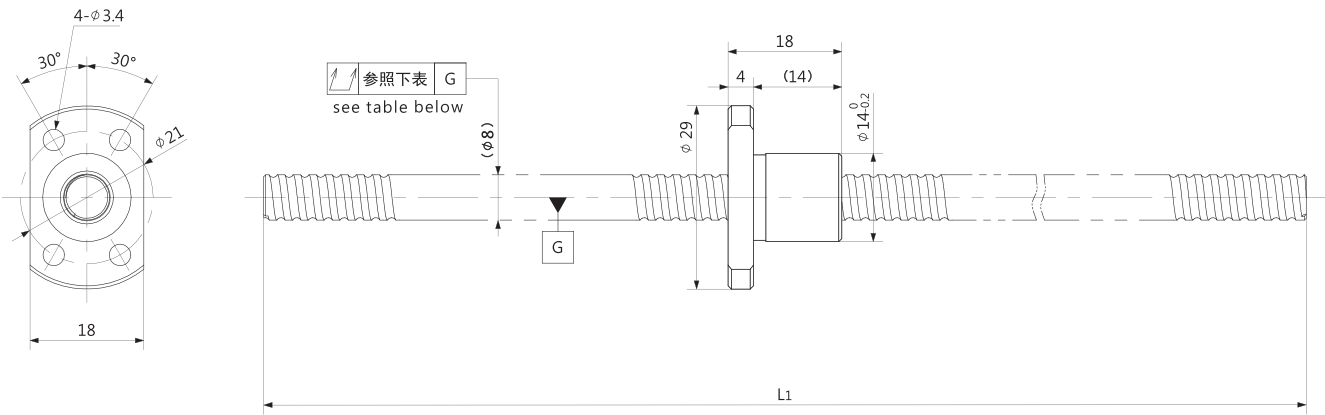
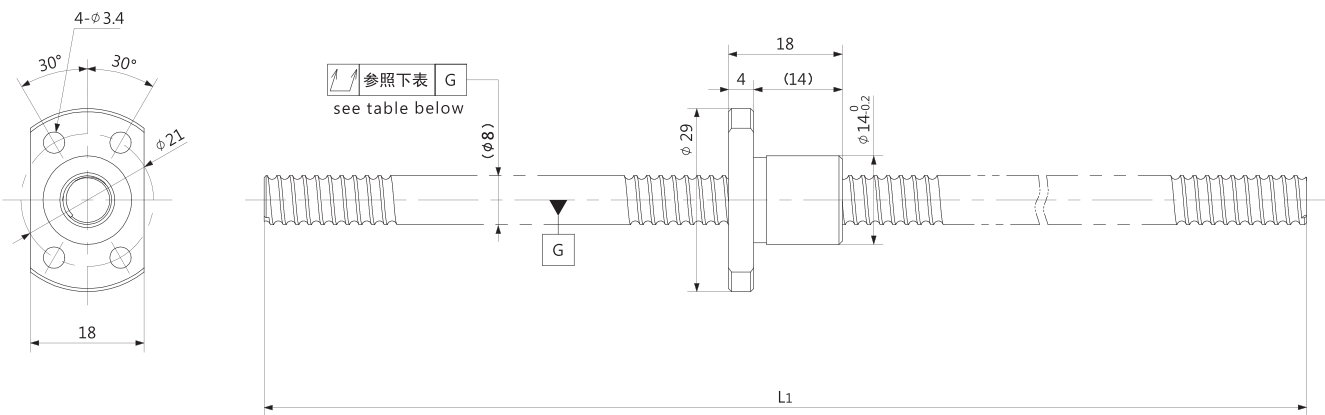
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Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Permissible Axial Load 许用轴向负载 N	Permissible Revolution 许用转速 rpm
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				
P-MSS0801-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	200	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0802 | Shaft dia.(轴径) ϕ 8Lead(导程)2mm | C7 |

P-MSS0802.5 | Shaft dia.(轴径) ϕ 8Lead(导程)2.5mm | C7 |



Unit (单位): mm		
Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩（最大）		400N.mm
Efficiency 丝杆效率		45%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Unit (单位): mm		
Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩（最大）		400N.mm
Efficiency 丝杆效率		50%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0802-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	280	2000

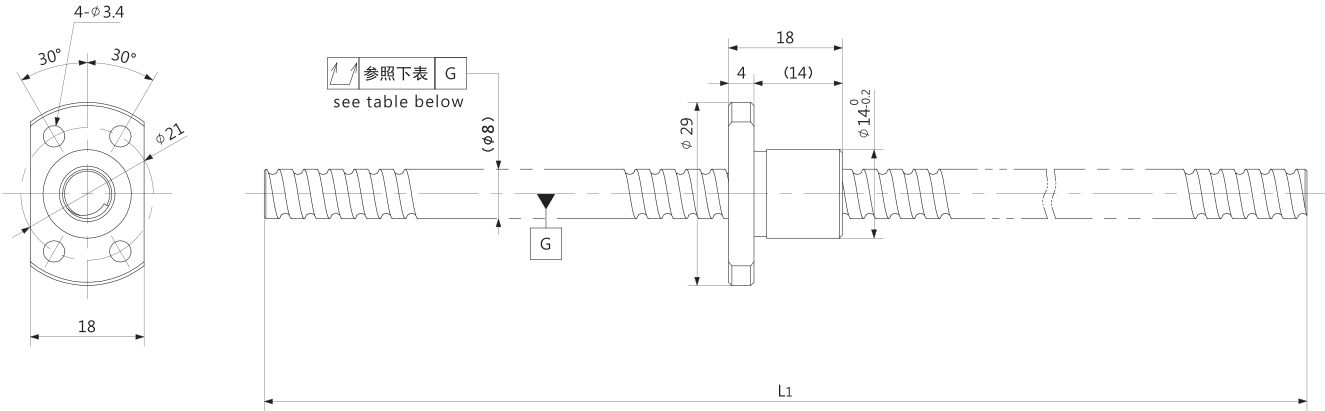
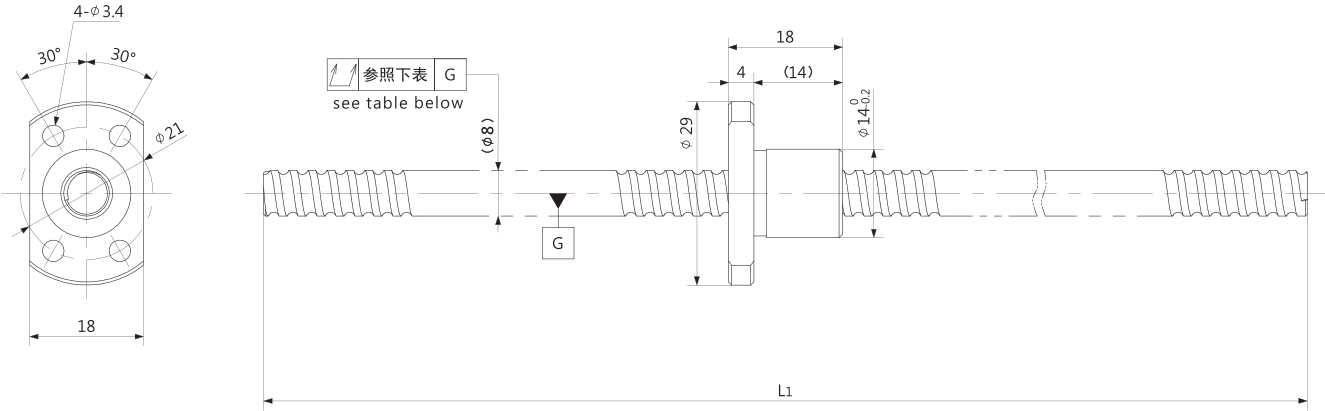
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Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0802.5-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	260	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0803 | Shaft dia.(轴径) $\phi 8$ | Lead(导程)3mm | C7 |

P-MSS0804 | Shaft dia.(轴径) $\phi 8$ | Lead(导程)4mm | C7 |



Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩 (最大)		400N.mm
Efficiency 丝杆效率		50%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩 (最大)		400N.mm
Efficiency 丝杆效率		50%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

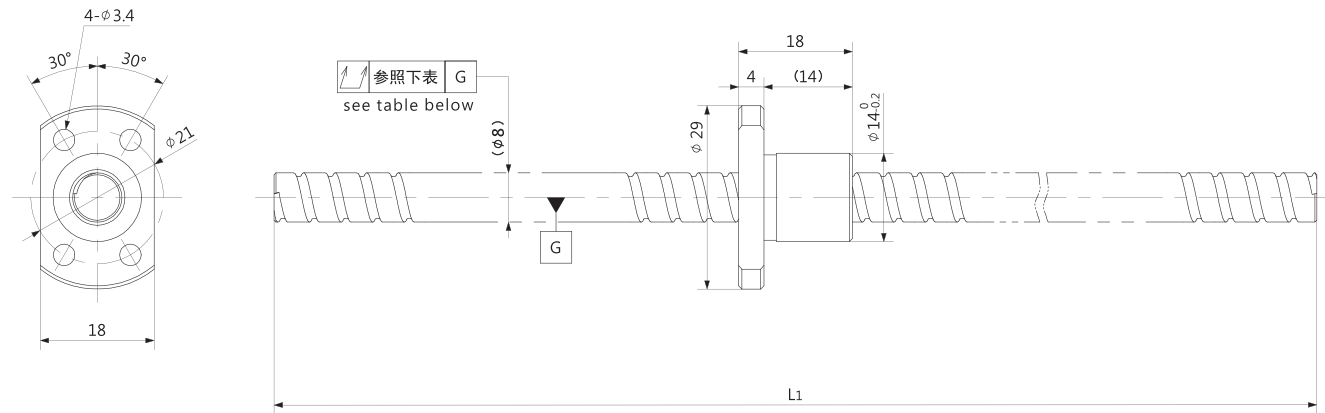
Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 ↗	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0803-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	310	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 ↗	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0804-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	290	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0805 | **Shaft dia.(轴径) $\phi 8$** **Lead(导程) 5mm** | **C7** |

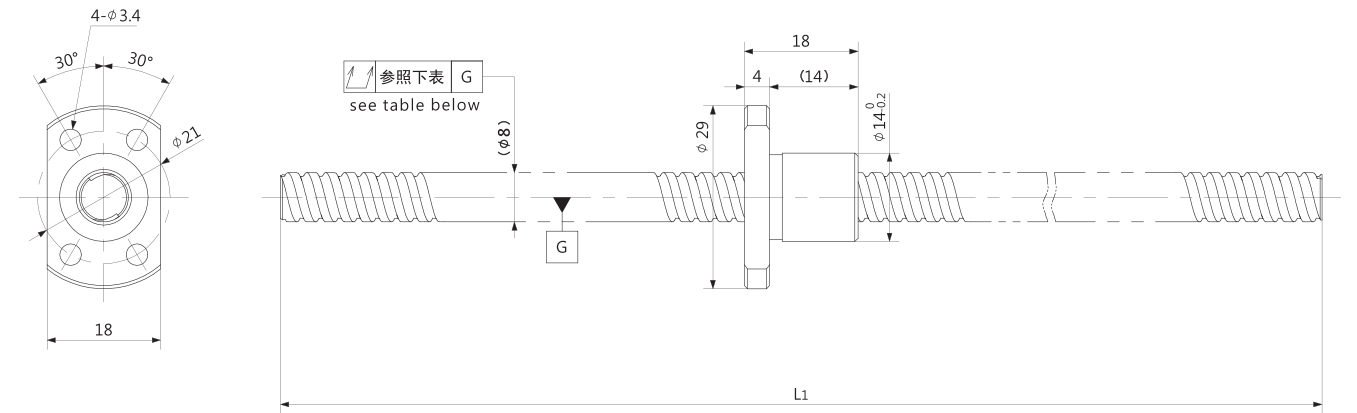


		Unit (单位): mm
Lead Screw Specifications		主要技术参数
Number of thread	螺纹条数	1
Thread direction	螺纹旋向	Right 右旋
Tightening Torque(max) 紧固扭矩 (最大)		400N.mm
Efficiency		丝杆效率
		55%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Permissible Axial Load 许用轴向负载 N	Permissible Revolution 许用转速 rpm
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				
P-MSS0805-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	220	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0806 | **Shaft dia.(轴径) φ8** | **Lead(导程)6mm** | **C7** |



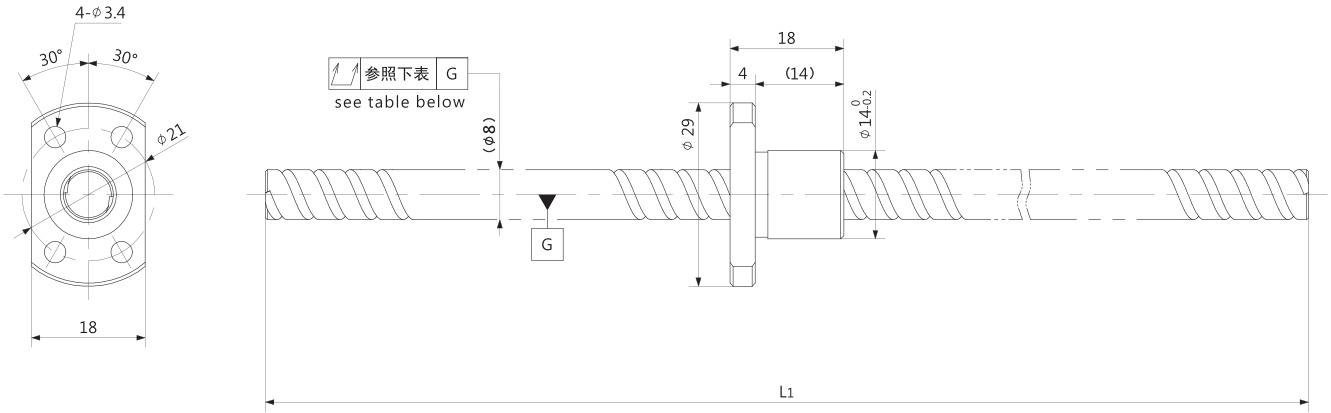
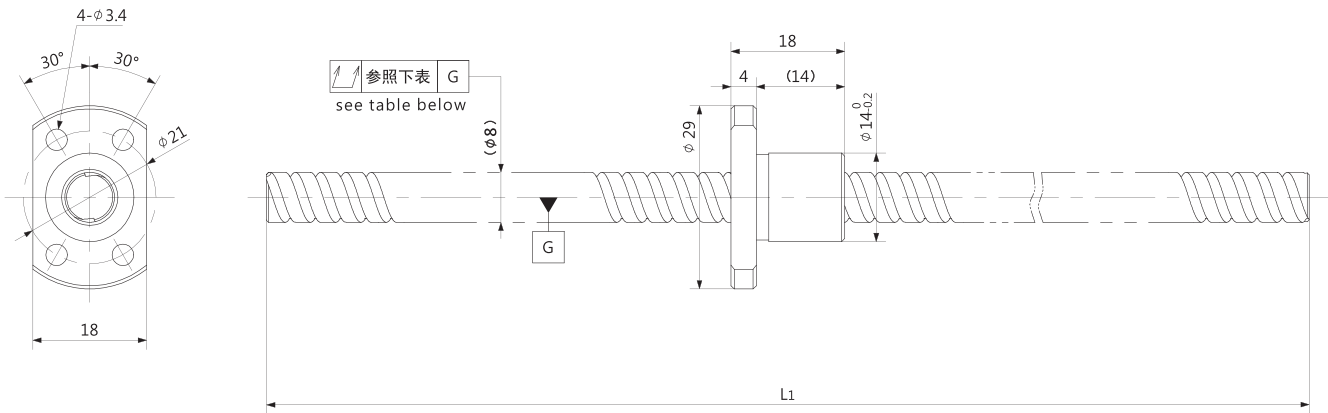
		Unit (单位): mm
Lead Screw Specifications		主要技术参数
Number of thread	螺纹条数	2
Thread direction	螺纹旋向	Right 右旋
Tightening Torque(max) 紧固扭矩 (最大)		400N.mm
Efficiency 丝杆效率		60%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out 全跳动 	Axial play 轴向间隙	Permissible Axial Load 许用轴向负载 N	Permissible Revolution 许用转速 rpm
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				
P-MSS0806-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	260	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0808 | Shaft dia.(轴径) ϕ 8Lead(导程) 8mm | C7 |

P-MSS0810 | Shaft dia.(轴径) ϕ 8Lead(导程) 10mm | C7 |



Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		2
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩 (最大)		400N.mm
Efficiency 丝杆效率		70%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		2
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩 (最大)		400N.mm
Efficiency 丝杆效率		70%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0808-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	200	2000

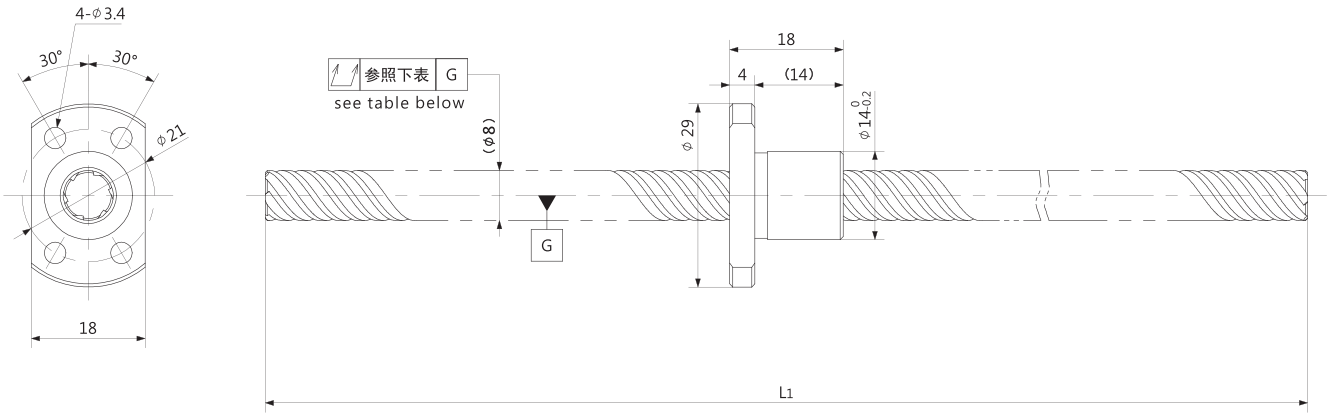
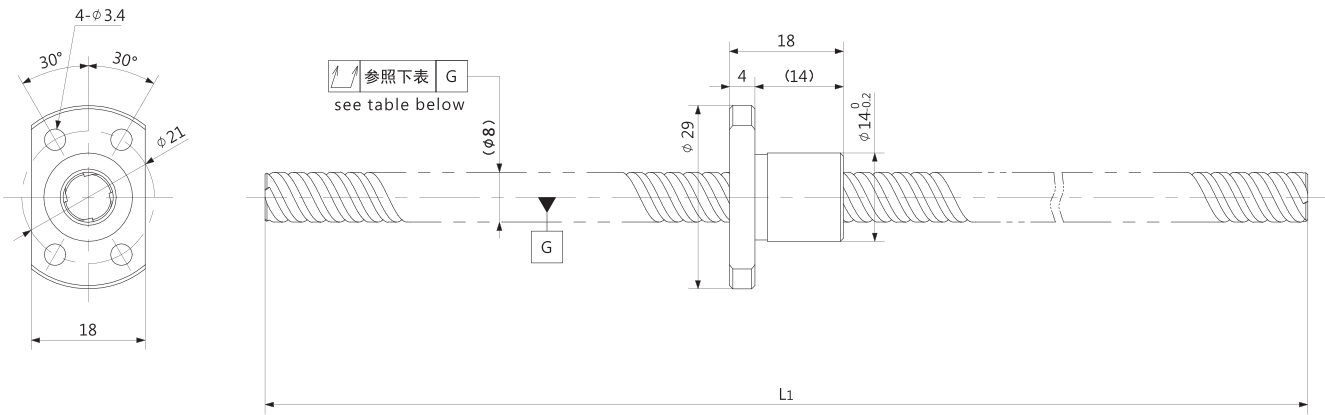
Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play	Permissible Axial Load	Permissible Revolution
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 	轴向间隙	许用轴向负载 N	许用转速 rpm
P-MSS0810-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	200	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0812 | Shaft dia.(轴径) ϕ 8Lead(导程) 12mm | C7 |

P-MSS0818 | Shaft dia.(轴径) ϕ 8Lead(导程) 18mm | C7 |



Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		4
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩（最大）		400N.mm
Efficiency 丝杆效率		80%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		6
Thread direction 螺纹旋向		Right 右旋
Tighttening Torque(max) 紧固扭矩（最大）		400N.mm
Efficiency 丝杆效率		80%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Permissible Axial Load 许用轴向负载 N	Permissible Revolution 许用转速 rpm
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				
P-MSS0812-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	200	2000

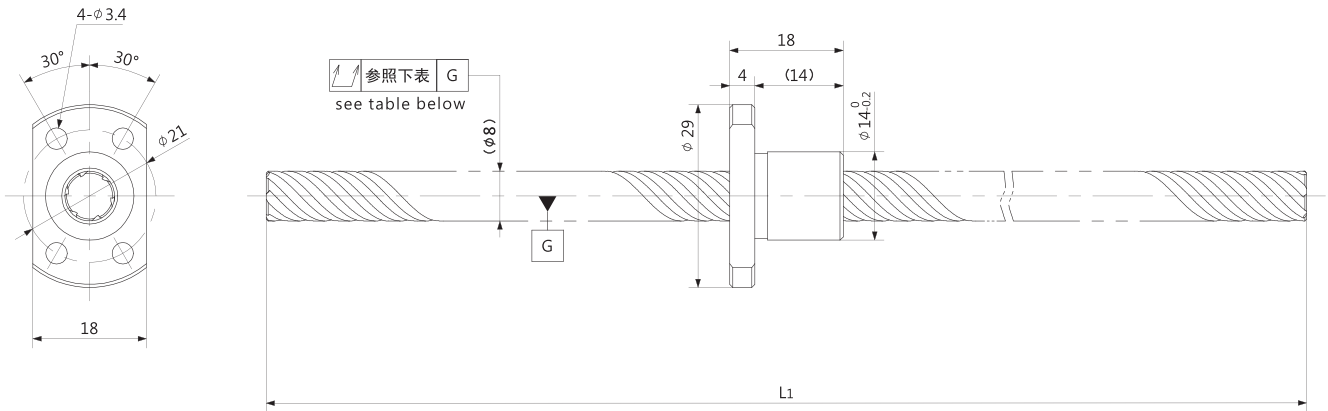
Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Permissible Axial Load 许用轴向负载 N	Permissible Revolution 许用转速 rpm
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				
P-MSS0818 -1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	200	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

P-MSS0824 | Shaft dia.(轴径)φ8

Lead(导程)24mm | C7 |



Unit (单位): mm

Lead Screw Specifications		主要技术参数
Number of thread 螺纹条数		6
Thread direction 螺纹旋向		Right 右旋
Tighttning Torque(max) 紧固扭矩（最大）		400N.mm
Efficiency 丝杆效率		85%
Material 材质	Shaft 轴	SUS304
	Nut 螺母	PPS

Resin Lead Screws Model 树脂螺母滑动丝杆型号	Travel 行程	Grade 精度	Shaft length 丝杆轴长度	Lead accuracy 导程精度		Total Run-out	Axial play 轴向间隙	Permissible Axial Load N	Permissible Revolution rpm
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀	全跳动 ↗↘			
P-MSS0824-1200R1200C7	1175	Ct7	1200	±0.208	0.052	0.150	~0.070	200	2000

Note) Please designate end-journal profile with your sketch. 注) 轴端的追加加工请结合图纸进行指示。

技术数据

TECHNICAL DATA

◆ 螺纹槽形状 Thread groove shape

螺纹槽采用拱弧形状。与本公司滚珠丝杆所使用的槽形状基本相同。

The thread groove adopts arch arc shape. The groove shape is basically the same as that used by our ball screw.

◆ 机械效率 Mechanical efficiency

树脂导程丝杆的机械效率η（%）可按下式计算。
根据实测值统计得出的机械效率期待值为20～50%。
一般情况下，导程越大，机械效率就越大。

The mechanical efficiency η (%) of the resin lead screw can be calculated according to the following formula.
The expected value of mechanical efficiency calculated according to the measured value is 20-50%.
In general, the larger the lead, the greater the mechanical efficiency.

$$\eta = \frac{F_a \times r}{T \times 2\pi} \times 100 \text{ (\%)}$$

F_a：轴向负载 / Axial load (N)

R：丝杆导程 / Screw Lead (m)

T：旋转扭矩 / Rotational torque (Nm)

◆ PPS工程塑料特性 Characteristics of PPS Engineering Plastics

耐热性：热变形温度为260℃的耐热性能，可以在170~200℃的高温环境下连续使用。

Heat resistance: The heat resistance with a thermal deformation temperature of 260 deg c can be continuously used in a high temperature environment of 170-200 deg C .

耐药品性：具有不被热浓硝酸等其他的酸·碱·有机溶剂解侵蚀的特征。

Drug resistance: It is characterized by not being eroded by other acids, bases and organic solvents such as hot concentrated nitric acid.

机械特性：与其他塑料相比具有优异的强度、弹性、机械性能、抗疲劳特性、耐磨损特点。

Mechanical properties: Compared with other plastics, it has excellent strength, elasticity, mechanical properties, fatigue resistance and wear resistance.

精密成形性：具有成形时的流动性好、尺寸安定的特点，适用于精密成形。

Precision formability: It has the characteristics of good fluidity and stable size during forming, and is suitable for precision forming.

复燃性：因为没有添加阻燃剂，采用UL94 V-0标准的实验条件，很好地发挥了不易燃烧的特性。

Resurgence: Because no flame retardant was added, UL94 V-0 standard experimental conditions were adopted, which gave full play to the characteristics of non-combustibility.

电气特性：有介电特性、绝缘破坏电压等方面也具有优异的特性。

Electrical characteristics: It has dielectric characteristics, insulation breakdown voltage and other aspects and also has excellent characteristics.



产品性能比较表 Product performance comparison

Product 产品名称	P-MSS	M-MSS
Classification 产品类别	Standard 标准库存品	Customized 接单生产
Operating Environment 使用环境	Standard Environment 常规环境	
Nut Appearance 螺母外观		
Material 材质	Engineering Plastic PPS 工程塑料 PPS	Nylon MC703HL 尼龙 MC703HL
Features 特点	Balanced Performance 平衡特性	
Other 其他	Good Pliding Properties 滑动特性良好	
Mechanical Strength 机械强度	◎	○
Heat Resistance 耐热性	◎	○
Wear Resistance 耐磨损性	◎	◎
Chemical Resistance 耐药品性	◎	○
Machinability 机械加工性	◎	◎

注：◎ 优异 / superior ○ 可用 / usable

◆ 使用用途 Use purpose

 医疗机器、测定机器、分析机器、半导体制造装置、食品加工机械、轻搬送装置等。
Medical equipment, measuring equipment, analysis equipment, semiconductor manufacturing equipment, food processing machinery, light transport equipment, etc.

◆ P-MSS系列产品优势 Advantages of P-MSS series products

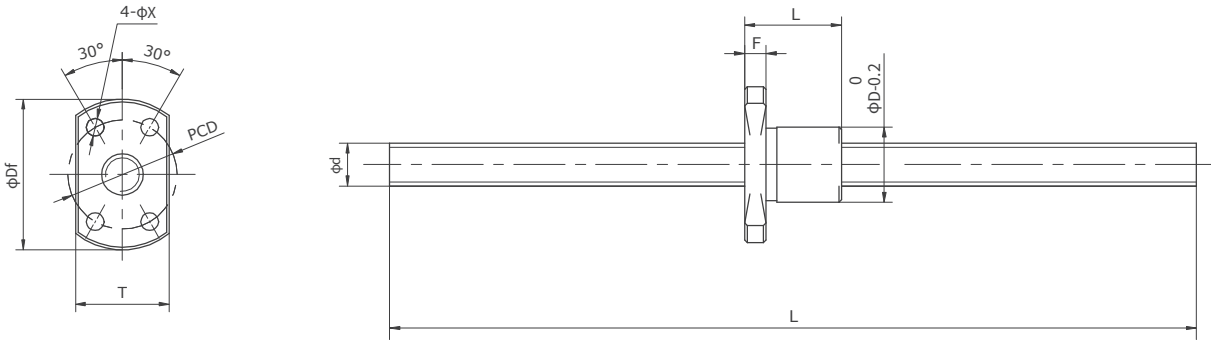
 丝杆采用日本制SUS304不锈钢材料、可广泛应用于各种环境。同时配有高性能树脂PPS螺母，具有耐磨损性、耐高温性、耐药品性等优异性能工厂备有标准整的库存，可为客户提供短交期、低价格的服务。
The screw adopts Japanese-made SUS304 stainless steel material, which can be widely used in various environments. At the same time, it is equipped with high-performance resin PPS nuts, which have excellent performances such as wear resistance, high temperature resistance, and chemical resistance. The factory has a standard stock, which can provide customers with short delivery and low price services.

◆ 操作、使用注意事项 Precautions for operation and use

 树脂导程丝杆是一种产生轴向推力的机械元件，其结构不能承受径向负载。如果承受径向负载，可能会导致早期磨损及损伤，因此请勿在树脂导程丝杆与其它直动设备连用时对其施加径向负载。

 支撑丝杆轴的轴承部、安装螺母的支架的嵌合、偏心、螺母安装面的垂直度等各安装部位的精度如果不良，将对树脂导程丝杆造成不良影响。因此，请充分注意相关零件的尺寸精度、形状精度及组装精度。

The resin lead screw is a mechanical element that generates axial thrust, and its structure cannot bear radial load. If it is subjected to radial load, it may cause early wear and damage, so do not apply radial load to the resin lead screw when it is used in conjunction with other linear motion equipment. If the accuracy of each mounting part such as the bearing part supporting the screw shaft, the fitting of the bracket for mounting the nut, the eccentricity, and the perpendicularity of the nut mounting surface is poor, it will adversely affect the resin lead screw. Therefore, please pay full attention to the dimensional accuracy, shape accuracy and assembly accuracy of the relevant parts.



Unit(单位): mm

Model 型号	Shaft 丝杆轴			Nut 螺母							Shaft length 标准轴长 L1
	Dia. 公称直径 d	Lead 导程	Number of thread 螺纹条数	D	L	Df	F	P.C.D	X	T	
P-MSS0401	4	1	1	10	11.5	23	3.5	15	2.9	15	1200
P-MSS0402		2	2								
P-MSS0504		5	4								
P-MSS0601	6	1	1	12	14.5	26		18	17		
P-MSS0602		2									
P-MSS0606		6	2								
P-MSS0609		9	3								
P-MSS0610		10	4								
P-MSS0618		18	6								
P-MSS0801	8	1	1	14	18	29	4	21	3.4	18	
P-MSS0802		2									
P-MSS082.5		2.5									
P-MSS0803		3									
P-MSS0804		4									
P-MSS0805		5									
P-MSS0806		6	2								
P-MSS0808		8									
P-MSS0810		10									
P-MSS0812		12	4								
P-MSS0818		18	6								
P-MSS0824		24									
P-MSS1001	10	1	1	16	22	33	5	24	4.5	21	
P-MSS1002		2									
P-MSS1003		3									
P-MSS1004		4									
P-MSS1005		5	2								
P-MSS1006		6									
P-MSS1010		10									
P-MSS1015		15	4								
P-MSS1020		20									
P-MSS1030		30									
P-MSS1202	12	2	1	18	25	35	26	22			
P-MSS1204		4									
P-MSS1205		5									
P-MSS1206		6	2								
P-MSS1210		10									
P-MSS1212		12									
P-MSS1220		20	4								
P-MSS1230		30									
P-MSS1236		36							6		
P-MSS1502	15	2	1	24	30	42	6	33	27		
P-MSS1505		5									
P-MSS1510		10	2								
P-MSS1520		20	4								
P-MSS1530		30	6								

注1) 标准丝杆轴的轴端未进行加工。本公司可提供轴端加工, 如有需要敬请指示。
Note 1) End-journal is not machined. Please inquire, if end-journal machining is required.

技术参数 Technical parameter

Model 型号	Shaft 丝杆轴		Permissible Axial Load 许用轴向负载 N	Permissible Revolution 许用转速 rpm	Tightening Torque (max) 紧固扭矩(最大) N·mm	Efficiency 丝杆效率 %
	Dia. 公称直径 mm	Lead 导程 mm				
P-MSS0401	4	1	50	2500	180	45
P-MSS0402		2	60			70
P-MSS0504	5	4	60			85
P-MSS0601	6	1	110	2000	400	40
P-MSS0602		2	60			55
P-MSS0606		6	50			60
P-MSS0609		9	90			85
P-MSS0610		10	100			85
P-MSS0618		18	110			85
P-MSS0801	8	1	200	2000	400	30
P-MSS0802		2	280			45
P-MSS082.5		2.5	260			50
P-MSS0803		3	310			50
P-MSS0804		4	290			50
P-MSS0805		5	220			55
P-MSS0806		6	260			60
P-MSS0808		8	200			70
P-MSS0810		10	200			70
P-MSS0812		12	200			80
P-MSS0818		18	200			80
P-MSS0824		24	200			85
P-MSS1001	10	1	210	1500	500	30
P-MSS1002		2	460			40
P-MSS1003		3	460			40
P-MSS1004		4	370			50
P-MSS1005		5	370			55
P-MSS1006		6	250			55
P-MSS1010		10	250			60
P-MSS1015		15	410			80
P-MSS1020		20	410			80
P-MSS1030		30	410			85
P-MSS1202	12	2	660	1000	500	35
P-MSS1204		4	450			45
P-MSS1205		5	450			55
P-MSS1206		6	500			55
P-MSS1210		10	500			60
P-MSS1212		12	450			75
P-MSS1220		20	470			75
P-MSS1230		30	470			80
P-MSS1236		36	520			80
P-MSS1502	15	2	1000	800	500	35
P-MSS1505		5	1000			55
P-MSS1510		10	1200			60
P-MSS1520		20	1300			75
P-MSS1530		30	1300			75

容许判断标准：使用P-MSS0810，以轴向荷载100N、转速2000rpm的条件进行了200km距离的移动试验，未发现有异常磨损的现象。
其他依照计算。

Allowable judgment standard: using P-MSS0810, the movement test was carried out at a distance of 200km under the conditions of axial load of 100N and rotating speed of 2000rpm, and no abnormal wear was found.

① 丝杆效率是当让丝杆方向荷载并让树脂螺母旋转时，对丝杆的旋转扭矩进行测量，按下式算出的结果。

① Screw rod efficiency is the result calculated by measuring the rotating torque of the screw rod when the screw rod is loaded in the direction and the resin nut is rotated.

$$\eta=\frac{R\cdot Q\cdot \tan\beta}{M}\times 100\text{（\%）}$$

$$\tan \beta=\frac{\text{Lead}}{2\pi R}$$

η：丝杆效率

R：丝杆有效半径

Q：轴向荷载

β：导程角

M：旋转扭矩

η: lead screw efficiency

R: lead screw effective radius

Q: axial load

β: lead angle

M: rotational torque

② 容许轴向荷载及容许转速是按照下述实验条件测得的值。

② Allowable axial load and allowable rotation speed are measured according to the following experimental conditions.

- 1) 试验机械：P-MSS滑动丝杆耐久试验机
- 2) 条件：室温、无润滑材料、丝杆旋转率、行程100mm往复（200mm/循环）或者200mm往复（400mm/循环）
- 3) 容许值判断新标准：以上述的容许轴向荷载和容许转速的组合条件，进行10³循环或者6×10³循环运动，来发现丝杆表面的变化及异常腐蚀。

- 1) Test Machinery: P-MSS Sliding Lead Screw Durability Testing Machine
- 2) Conditions: Room Temperature, No Lubricating Material, Lead Screw Rotation Rate, Allowable Value of 100mm Reciprocation (200mm/ cycle) or 200mm Reciprocation (400mm/cycle)
- 3) New Criteria: Conduct 10³ cycles or 6×10³ cycles with the above-mentioned combination conditions of allowable axial load and allowable rotation speed to find changes and abnormal corrosion damage on the lead screw surface.

③ 把树脂螺母固定在另一零部件上时的安装拧紧扭矩。

③ Installation and tightening torque when fixing resin nut on another component.