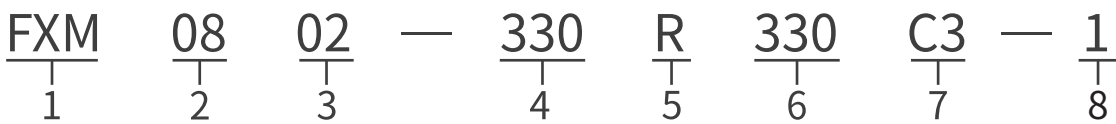


精密滚珠丝杆
Precision ball screw

方型单螺母精密滚珠丝杆FXM系列（C3/C5）
FXM series Square single nut precision ball screw (C3/C5)

精密滚珠丝杆标准库存品

公称型号的构成 Model number notation

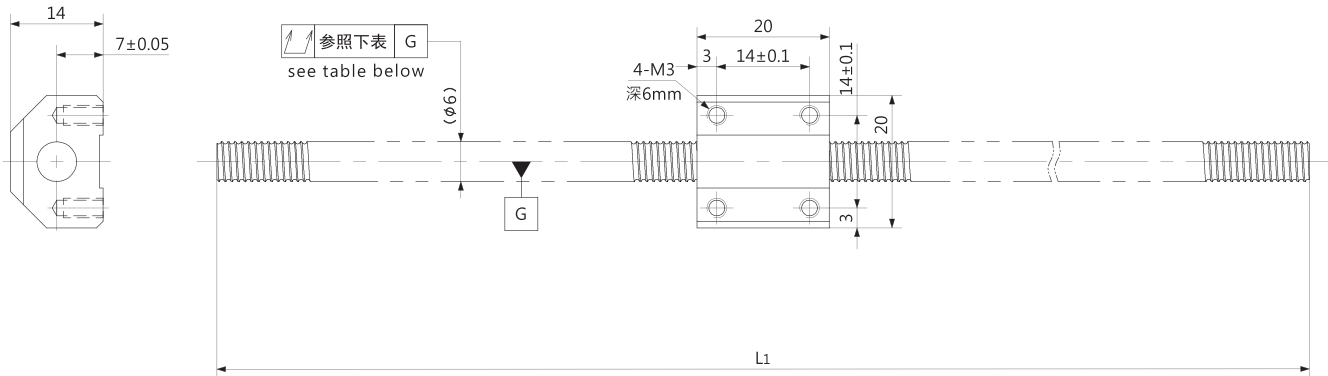


- | | |
|---|--|
| 1 系列符号
FXM:方型单螺母精密滚珠丝杆 | 1 Series of symbols
FXM:Square single nut precision ball screw |
| 2 丝杆轴公称外径 (mm) | 2 Nominal outer diameter of screw shaft (mm) |
| 3 导程 (mm) | 3 Lead (mm) |
| 4 螺纹部长度 (mm) | 4 Length of thread part (mm) |
| 5 螺纹旋向 (R=右旋) | 5 Thread direction (R=right-handed) |
| 6 丝杆轴总长 (mm) | 6 Total length of screw shaft (mm) |
| 7 精度等级 (C3/C5) | 7 Accuracy grade (C3/C5) |
| 8 涂抹的油脂
0:本公司推荐的润滑脂 (GHY No.2)
1:食品级润滑脂 (FG2 No.2)
2:洁净室专用润滑脂 (MCG No.1) | 8 Grease type
0: Recommended grease (GHY No.2)
1: Grease for food processing (FG2 No.2)
2: Grease for clean room (MCG No.1) |

- | | |
|--|---|
| <p>● 精度等级和轴向间隙</p> <p>FXM系列（方型单螺母精密滚珠丝杆标准库存品）的精度等级有JIS C3/C5两种。轴向间隙根据精度等级不同备有0mm（预压：C3）和0.005mm以下（C5）。</p> | <p>● Accuracy class and axial clearance</p> <p>Accuracy grade of FXM series (standard stock of square single nut precision ball screw) are based on C3 and C5 (JIS B 1192-3) . According to accuracy grade, Axial play 0 (Preload : C3) and 0.005mm or less (C5) are in stock.</p> |
| <p>● 材质和表面硬度</p> <p>FXM系列（方型单螺母精密滚珠丝杆标准库存品）的螺杆轴丝杆材料S55C（高频淬火）、螺母材料SCM415H（渗碳淬火），滚珠丝杆部分的表面硬度为HRC58以上。</p> | <p>● Material & Surface Hardness</p> <p>FXM series (Standard stock of Square single nut precision ball screw) of screw shaft screw material S55C (induction hardening), nut material SCM415H (carburizing and hardening), the surface hardness of the ball screw part is HRC58 or higher.</p> |
| <p>● 轴端形状</p> <p>FXM系列（方型单螺母精密滚珠丝杆标准库存品）的轴端形状已实现标准化。</p> | <p>● Shaft End Shape</p> <p>The shape of the shaft end of the FXM series (square single nut precision ball screw standard stock) has been standardized.</p> |

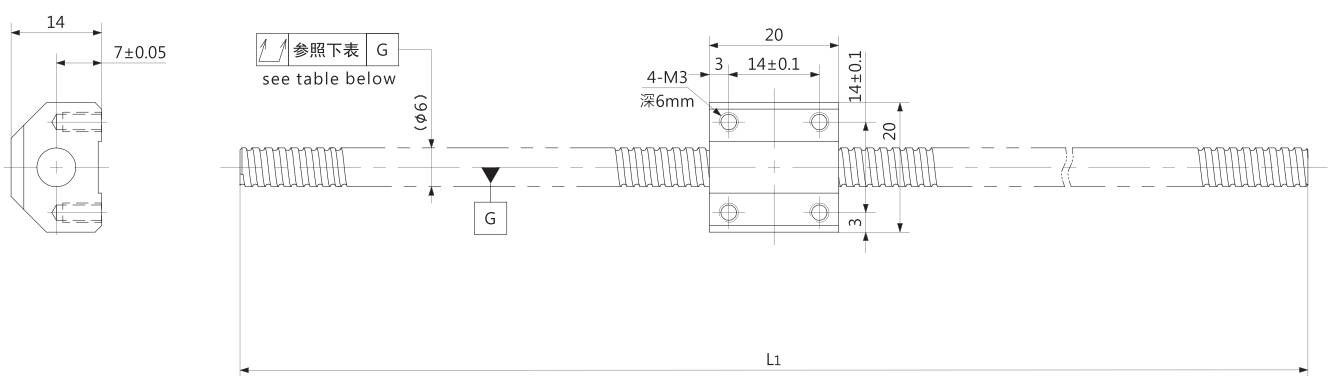
FXM0601 | Shaft dia.(轴径)φ6 Lead(导程)1mm | C3&C5 |

FXM0602 | Shaft dia.(轴径)φ6 Lead(导程)2mm | C3&C5 |



Unit (单位): mm

Ball Screw Specifications		主要技术参数
Ball size 钢珠直径		φ0.8
BCD 钢珠中心直径		6.15
Lead Angle 导程角		2°58′
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Shaft root dia 丝杠轴底径		φ5.3
Number of circuit 循环数		3.7×1
Material 材质	Shaft 轴	S55C
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度		HRC58~62 (Thread area)
Anti-rust treatment 防锈处理		Anti-rust oil 防锈油



Unit (单位): mm

Ball Screw Specifications		主要技术参数
Ball size 钢珠直径		φ1.0
BCD 钢珠中心直径		6.20
Lead Angle 导程角		5°52′
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Shaft root dia 丝杠轴底径		φ5.1
Number of circuit 循环数		2.7×1
Material 材质	Shaft 轴	S55C
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度		HRC58~62 (Thread area)
Anti-rust treatment 防锈处理		Anti-rust oil 防锈油

Unit(单位):mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
FXM0601-064R108	88	C3	108	±0.008	0.008	0.050	0 Spacer ball 间隔钢珠 (1:1)	~0.006	430	610
FXM0601-094R138	118		138	±0.008						
FXM0601-124R168	148		168	±0.010						
FXM0601-064R108	88	C5	108	±0.018	0.018	0.090	~0.005	—	680	1200
FXM0601-094R138	118		138	±0.018						
FXM0601-124R168	148		168	±0.020						

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。

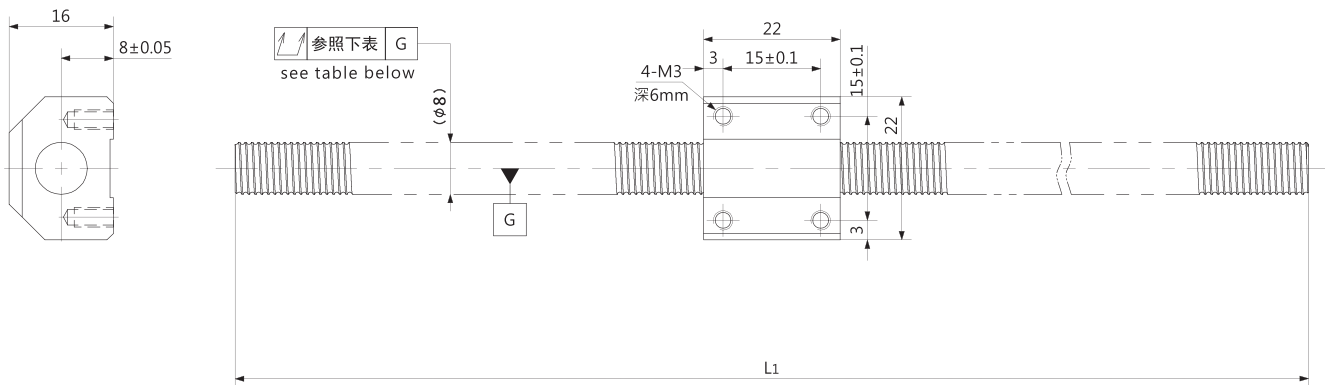
Unit(单位):mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
FXM0602-064R108	88	C3	108	±0.008	0.008	0.050	0 Spacer ball 间隔钢珠 (1:1)	0.003~0.007	470	590
FXM0602-094R138	118		138	±0.008						
FXM0602-124R168	148		168	±0.010						
FXM0602-064R108	88	C5	108	±0.018	0.018	0.090	~0.005	—	750	1200
FXM0602-094R138	118		138	±0.018						
FXM0602-124R168	148		168	±0.020						

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。

FXM0801 | Shaft dia.(轴径)φ8 Lead(导程)1mm | C3&C5 |

FXM0802 | Shaft dia.(轴径)φ8 Lead(导程)2mm | C3&C5 |



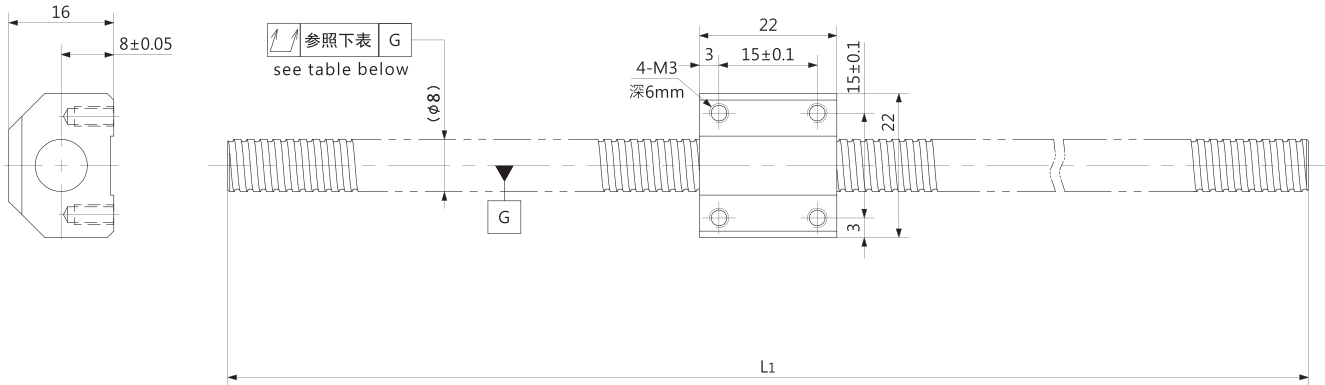
Unit (单位): mm

Ball Screw Specifications		主要技术参数
Ball size 钢珠直径		φ0.8
BCD 钢珠中心直径		8.15
Lead Angle 导程角		2°15′
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Shaft root dia 丝杠轴底径		φ7.3
Number of circuit 循环数		3.7×1
Material 材质	Shaft 轴	S55C
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度		HRC58~62 (Thread area)
Anti-rust treatment 防锈处理		Anti-rust oil 防锈油

Unit(单位) :mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
FXM0801-065R115	95	C3	115	±0.008	0.008	0.060	0 Spacer ball 间隔钢珠 (1:1)	0.004~0.020	490	820
FXM0801-095R145	125		145	±0.008						
FXM0801-125R175	155		175	±0.010						
FXM0801-175R225	205		225	±0.010						
FXM0801-065R115	95	C5	115	±0.018	0.018	0.090	~0.005	-	780	1650
FXM0801-095R145	125		145	±0.018						
FXM0801-125R175	155		175	±0.020						
FXM0801-175R225	205		225	±0.020						

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

Ball Screw Specifications		主要技术参数
Ball size 钢珠直径		φ1.0
BCD 钢珠中心直径		8.20
Lead Angle 导程角		4°26′
Number of thread 螺纹条数		1
Thread direction 螺纹旋向		Right 右旋
Shaft root dia 丝杠轴底径		φ7.1
Number of circuit 循环数		2.7×1
Material 材质	Shaft 轴	S55C
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度		HRC58~62 (Thread area)
Anti-rust treatment 防锈处理		Anti-rust oil 防锈油

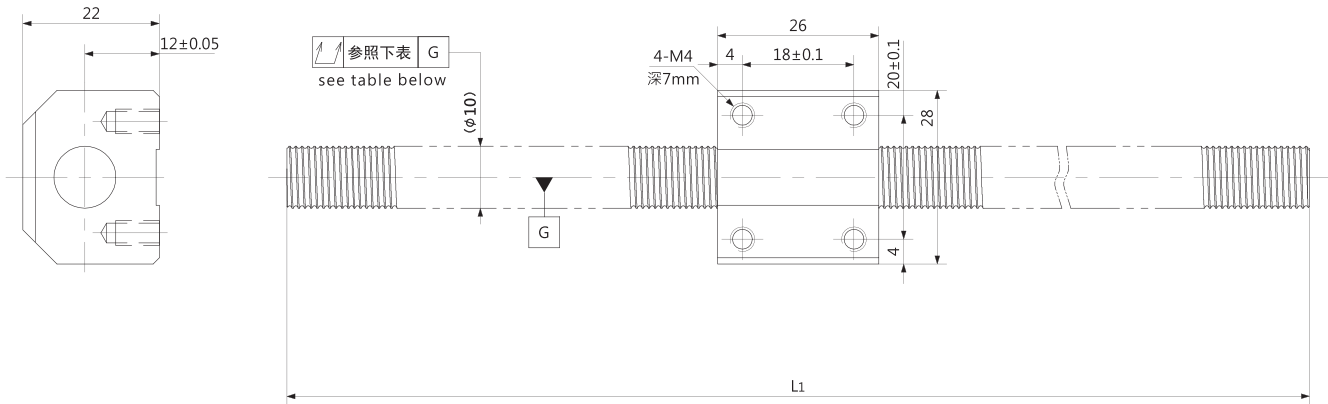
Unit(单位) :mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
FXM0802-074R124	97	C3	124	±0.008	0.008	0.060	0 Spacer ball 间隔钢珠 (1:1)	0.004~0.020	540	800
FXM0802-104R154	127		154	±0.010						
FXM0802-134R184	157		184	±0.010						
FXM0802-184R234	207		234	±0.010						
FXM0802-074R124	97	C5	124	±0.018	0.018	0.090	~0.005	-	850	1600
FXM0802-104R154	127		154	±0.020						
FXM0802-134R184	157		184	±0.020						
FXM0802-184R234	207		234	±0.020						

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。

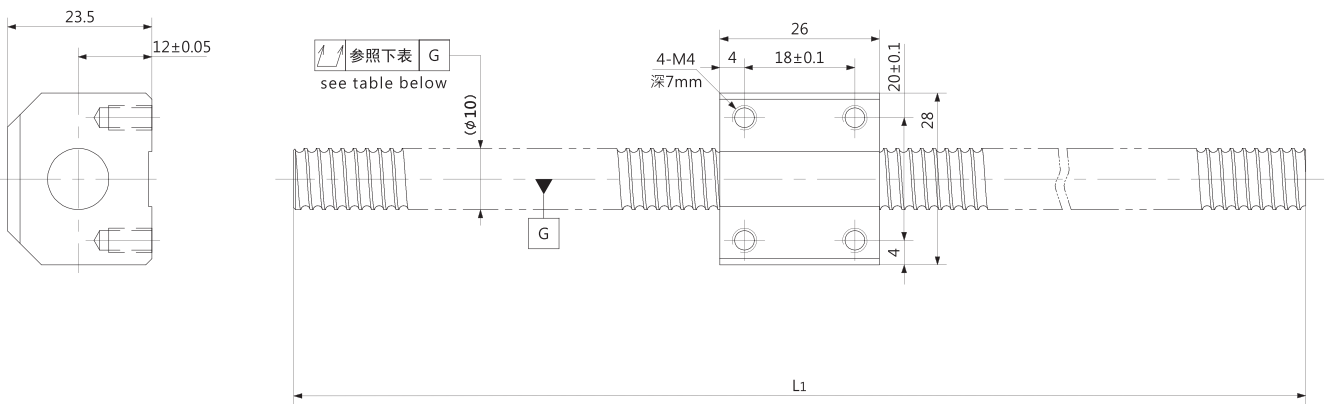
FXM1001 | Shaft dia.(轴径) $\varnothing 10$ | Lead(导程)1mm | C3&C5 |

FXM1002 | Shaft dia.(轴径) $\varnothing 10$ | Lead(导程)2mm | C3&C5 |



Unit (单位): mm

Ball Screw Specifications		主要技术参数
Ball size	钢珠直径	$\varnothing 0.8$
BCD	钢珠中心直径	10.15
Lead Angle	导程角	1°48′
Number of thread	螺纹条数	1
Thread direction	螺纹旋向	Right 右旋
Shaft root dia	丝杠轴底径	$\varnothing 9.3$
Number of circuit	循环数	3.7×1
Material 材质	Shaft 轴	S55C
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度		HRC58~62 (Thread area)
Anti-rust treatment 防锈处理		Anti-rust oil 防锈油



Unit (单位): mm

Ball Screw Specifications		主要技术参数
Ball size	钢珠直径	$\varnothing 1.5875$
BCD	钢珠中心直径	10.30
Lead Angle	导程角	3°32′
Number of thread	螺纹条数	1
Thread direction	螺纹旋向	Right 右旋
Shaft root dia	丝杠轴底径	$\varnothing 8.6$
Number of circuit	循环数	3.7×1
Material 材质	Shaft 轴	S55C
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度		HRC58~62 (Thread area)
Anti-rust treatment 防锈处理		Anti-rust oil 防锈油

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
FXM1001-085R143	123	C3	143	±0.008	0.008	0.065	0 Spacer ball 间隔钢珠 (1:1)	~0.020	530	1000
FXM1001-135R193	173		193	±0.010						
FXM1001-185R243	223		243	±0.010						
FXM1001-235R293	273		293	±0.012						
FXM1001-085R143	123	C5	143	±0.018	0.018	0.090	~0.005	-	840	2000
FXM1001-135R193	173		193	±0.020						
FXM1001-185R243	223		243	±0.020						
FXM1001-235R293	273		293	±0.023						

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。

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	Shaft length 丝杠轴长度	Lead accuracy 导程精度		Total Run-out 全跳动	Axial play 轴向间隙	Preload Torque 预压扭矩 Nm	Basic Load Rating 基本额定负载 N	
			L ₁	Travel deviation 代表移动量误差 e _p	Variation 波动 V ₃₀₀				Dynamic 额定动负载 Ca	Static 额定静负载 Coa
FXM1002-085R143	116	C3	143	±0.008	0.008	0.065	0 Spacer ball 间隔钢珠 (1:1)	0.006~0.030	1750	2700
FXM1002-135R193	166		193	±0.010						
FXM1002-185R243	216		243	±0.010						
FXM1002-235R293	266		293	±0.012						
FXM1002-085R143	116	C5	143	±0.018	0.018	0.090	~0.005	-	2700	5300
FXM1002-135R193	166		193	±0.020						
FXM1002-185R243	216		243	±0.020						
FXM1002-235R293	266		293	±0.023						

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。