

精密滚珠丝杆
Precision ball screw

双向法兰螺母精密滚珠丝杆SXM系列（C3/C5）
SXM series Bidirectional precision ball screw (C3/C5)

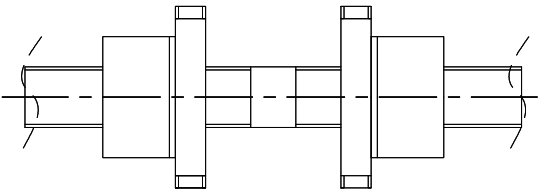
精密滚珠丝杆标准库存品

公称型号的构成 Model number notation

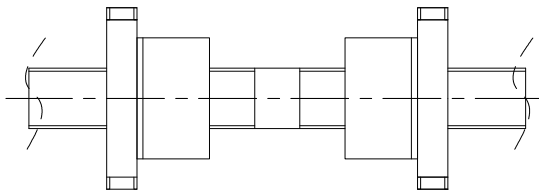
SXM 08 02 — 330 R 330 C3 — 1 X
1 2 3 4 5 6 7 8 9

- 1 系列符号
SXM:双向法兰螺母精密滚珠丝杆
- 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 (R=右旋)
- 6 丝杆轴总长 (mm)
- 7 精度等级 (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)
- 9 螺母法兰朝向
X: 法兰靠内侧
Y: 法兰靠外侧

- 1 Series of symbols
SXM:Bidirectional precision ball screw
- 2 Nominal outer diameter of screw shaft (mm)
- 3 Lead (mm)
- 4 Length of thread part (mm)
- 5 Thread direction (R=right-handed)
- 6 Total length of screw shaft (mm)
- 7 Accuracy grade (C3/C5)
- 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)
- 9 Nut flange orientation
X: Flange to the inside
Y: Flange on the outside



X: Flange to the inside / 法兰靠内侧



Y: Flange on the outside / 法兰靠外侧

精度等级和轴向间隙

SXM系列（双向法兰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）。

Accuracy class and axial clearance

Accuracy grade of SXM series (standard stock of bidirectional 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.

材质和表面硬度

SXM系列（双向法兰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。

Material & Surface Hardness

SXM series (Standard stock of Bidirectional 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.

轴端形状

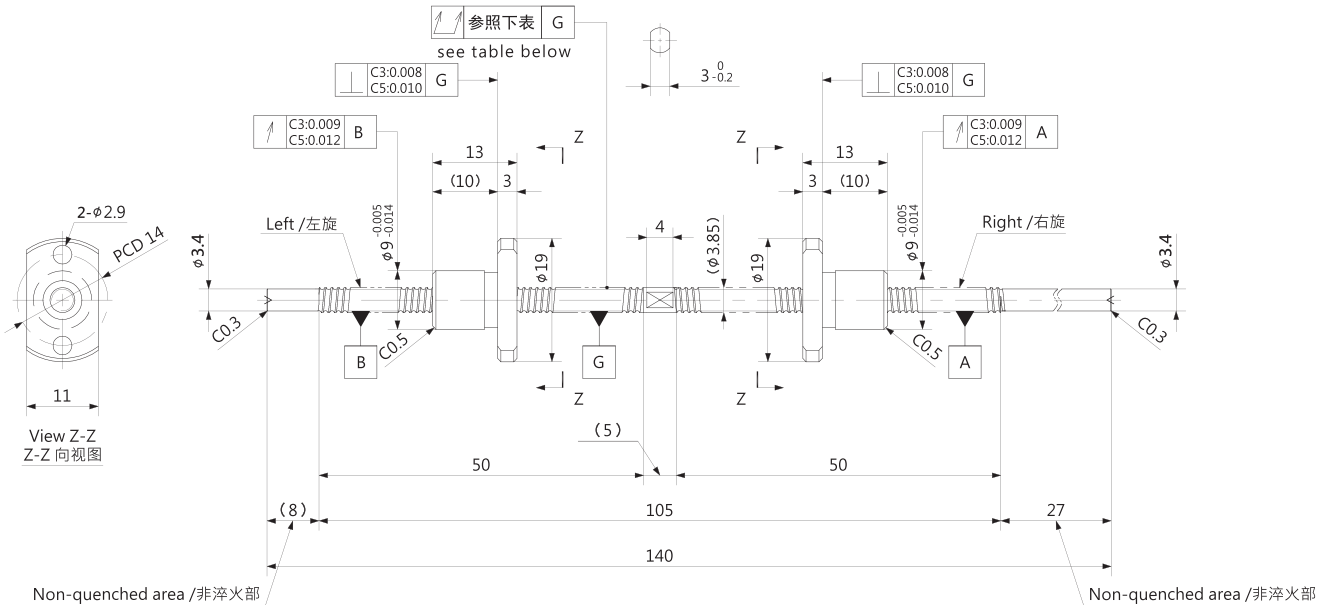
SXM系列（双向法兰螺母精密滚珠丝杆标准库存品）的轴端形状已实现标准化。

Shaft End Shape

The shape of the shaft end of the SXM series (Bidirectional precision ball screw standard stock) has been standardized.

SXM0401 | Shaft dia.(轴径)φ4 Lead(导程)1mm | C3&C5 |

SXM0601 | Shaft dia.(轴径)φ6 Lead(导程)1mm | C3&C5 |

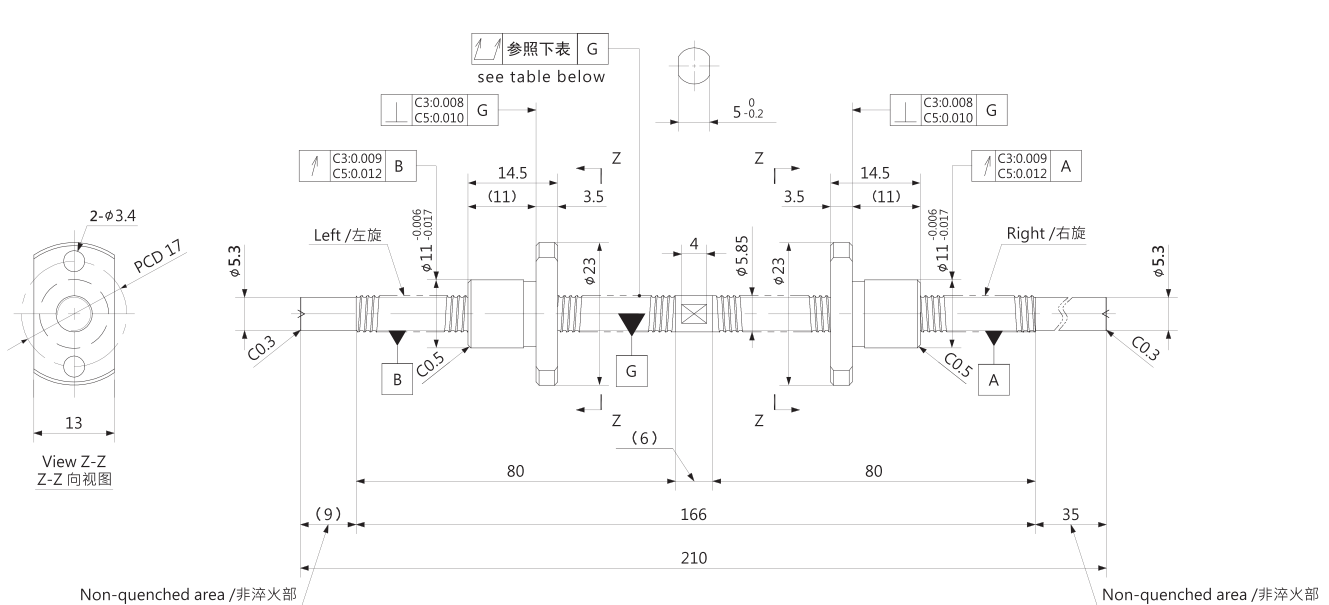


Unit (单位): mm

Ball Screw Specifications		主要技术参数
Ball size	钢珠直径	φ0.8
BCD	钢珠中心直径	4.15
Lead Angle	导程角	4°23′
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	φ3.3
Number of circuit	循环数	1×3
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	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	
			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
SXM0401-50L50R140C3	35	C3	±0.008	0.008	0.035	0	~0.010	420	570
SXM0401-50L50R140C5	35	C5	±0.018	0.018	0.050	~0.005	—	420	570

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

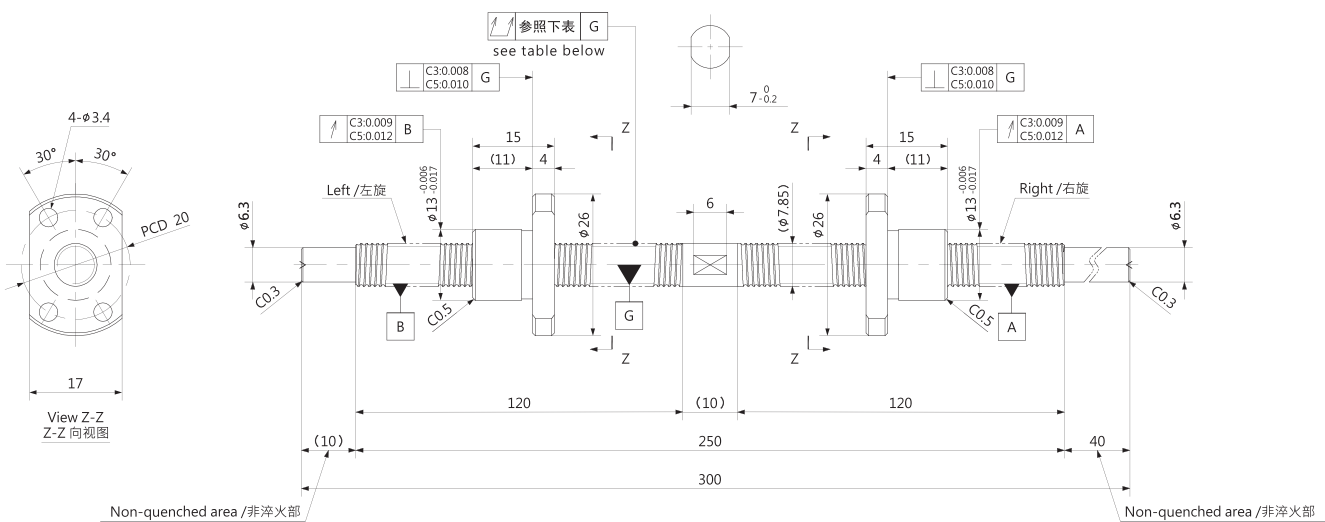
Ball Screw Specifications		主要技术参数
Ball size	钢珠直径	φ0.8
BCD	钢珠中心直径	6.20
Lead Angle	导程角	2°56′
Number of thread	螺纹条数	1
Thread direction	螺纹旋向	Right 右旋
Shaft root dia	丝杠轴底径	φ5.3
Number of circuit	循环数	1×3
Material 材质	Shaft 轴	S55C
	Nut 螺母	SCM415H
Surface hardness 螺纹部表面硬度	HRC58~62 (Thread area)	
Anti-rust treatment 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	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	
			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
SXM0601-80L80R210C3	65	C3	±0.008	0.008	0.050	0	~0.013	550	1000
SXM0601-80L80R210C5	65	C5	±0.018	0.018	0.065	~0.005	—	550	1000

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。

SXM0801 | Shaft dia.(轴径)φ8 | Lead(导程)1mm | C3&C5 |

SXM0802 | Shaft dia.(轴径)φ8 | Lead(导程)2mm | C3&C5 |



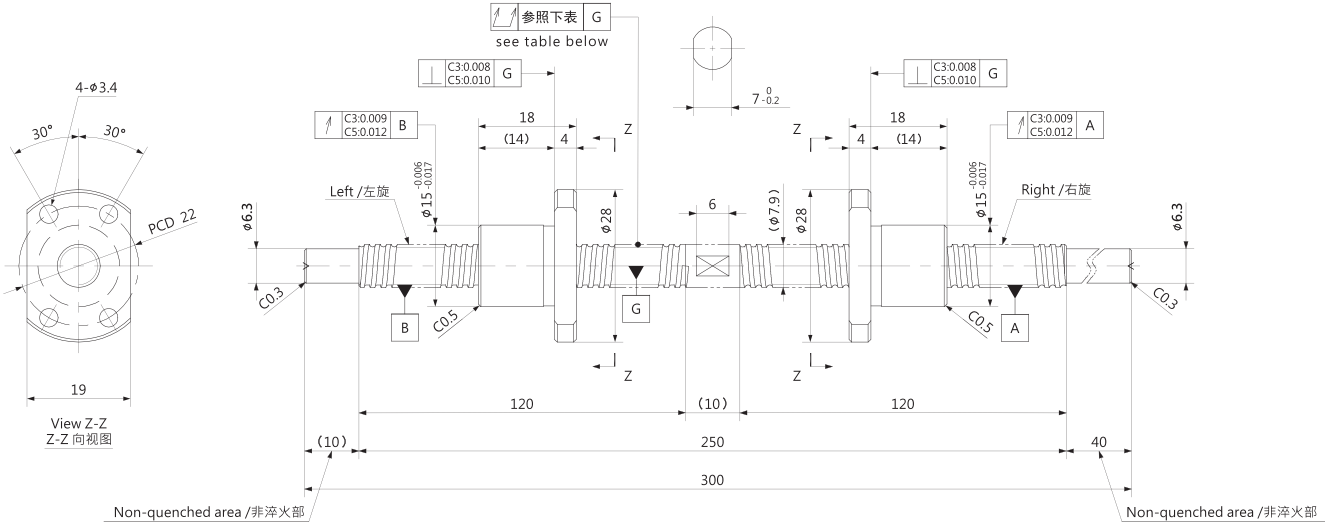
Unit (单位): mm

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	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	
			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
SXM0801-120L120R300C3	105	C3	±0.008	0.008	0.050	0	~0.018	650	1300
SXM0801-120L120R300C5	105	C5	±0.018	0.018	0.065	~0.005	—	650	1300

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		φ1.2
BCD 钢珠中心直径		8.20
Lead Angle 导程角		2°13′
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		φ7.0
Number of circuit 循环数		1×3
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

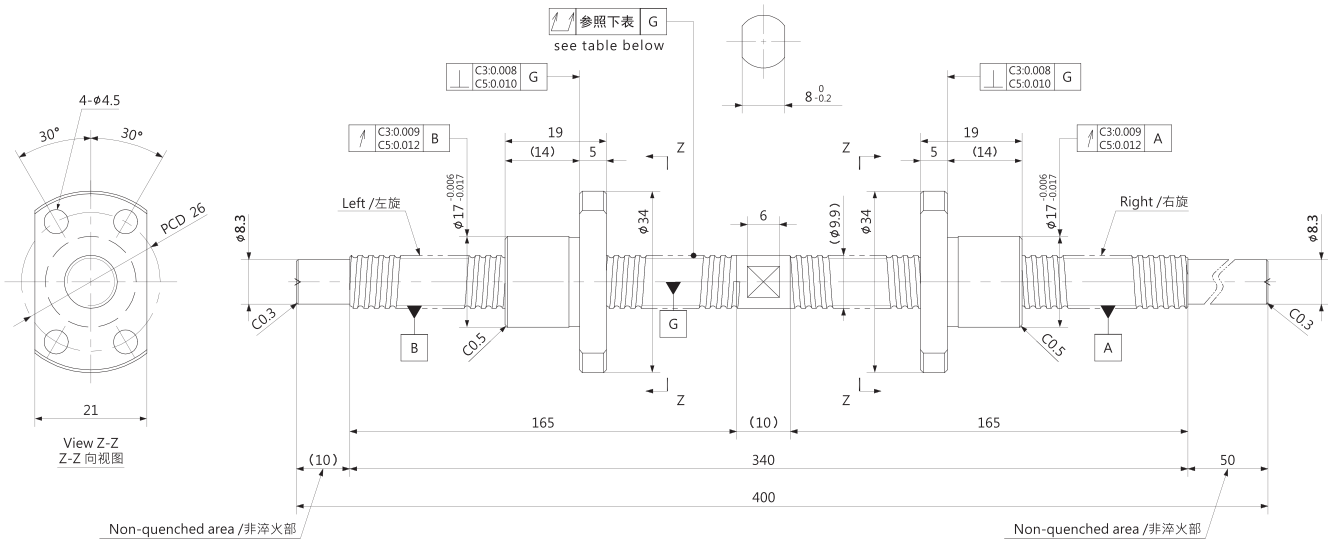
Unit(单位): mm

Ball Screw Model 滚珠丝杠型号	Travel 行程	Grade 精度	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	
			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
SXM0802-120L120R300C3	100	C3	±0.008	0.008	0.050	0	~0.020	1300	2300
SXM0802-120L120R300C5	100	C5	±0.018	0.018	0.065	~0.005	—	1300	2300

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。

SXM1002 | Shaft dia.(轴径) $\varnothing 10$ | Lead(导程)2mm | C3&C5 |

SXM1202 | Shaft dia.(轴径) $\varnothing 12$ | Lead(导程)2mm | C3&C5 |

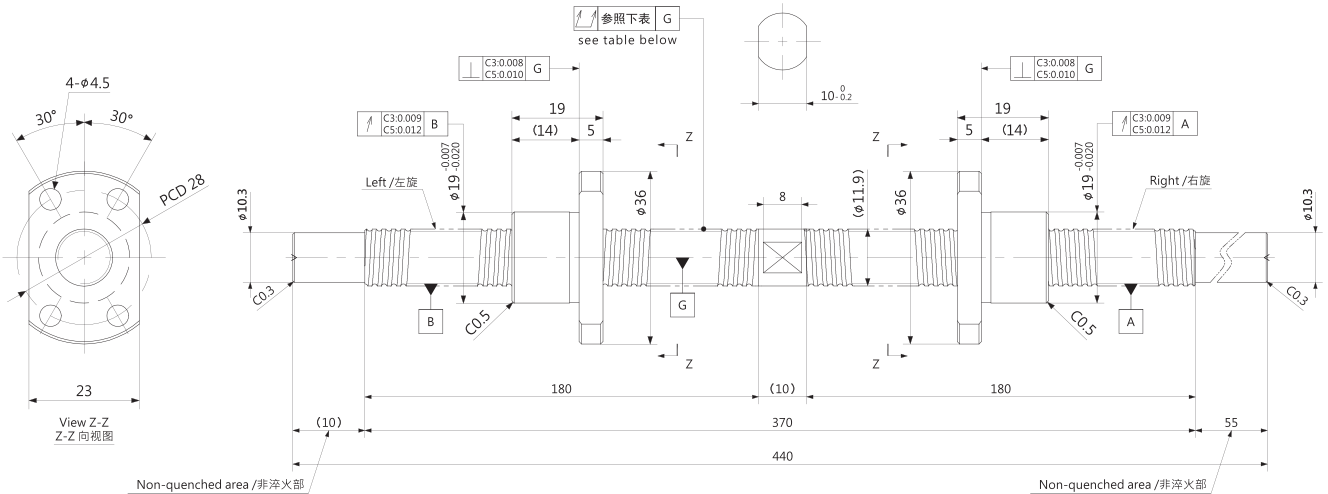


Unit (单位): mm

Ball Screw Specifications		主要技术参数
Ball size	钢珠直径	$\varnothing 1.2$
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	$\varnothing 9.0$
Number of circuit	循环数	1×3
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	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	
			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
SXM1002-165L165R400C3	145	C3	± 0.010	0.008	0.050	0	~0.025	1450	3000
SXM1002-165L165R400C5	145	C5	± 0.020	0.018	0.065	~0.005	—	1450	3000

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Unit (单位): mm

Ball Screw Specifications		主要技术参数
Ball size	钢珠直径	$\varnothing 1.2$
BCD	钢珠中心直径	12.30
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	$\varnothing 11.0$
Number of circuit	循环数	1×3
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	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	
			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
SXM1202-160L160R440C3	145	C3	± 0.010	0.008	0.065	0	~0.035	1600	3700
SXM1202-160L160R440C5	145	C5	± 0.020	0.018	0.080	~0.005	—	1600	3700

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。