

标准滚珠丝杆  
Standard ball screw

不锈钢冷轧滚珠丝杆BBS系列（C5/Ct7/Ct10）  
BBS series Stainless steel cold rolled ball screw (C5/Ct7/Ct10)

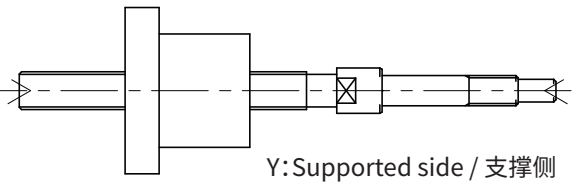
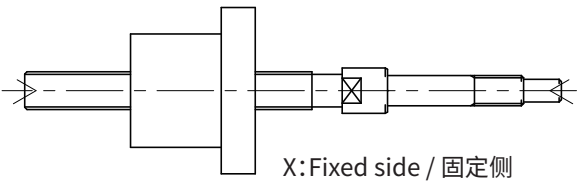
标准滚珠丝杆标准库存品

公称型号的构成 Model number notation

BBS 06 01 K — 200 R 200 Ct7 — 1 X  
1 2 3 4 5 6 7 8 9 10

- 1 系列符号  
BBS: 不锈钢冷轧滚珠丝杆
- 2 丝杆轴公称外径 (mm)
- 3 导程 (mm)
- 4 螺母类型
- 5 螺纹部长度 (mm)
- 6 螺纹旋向 (R=右旋)
- 7 丝杆轴总长 (mm)
- 8 精度等级 (C5/Ct7/Ct10)
- 9 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)
- 10 螺母法兰朝向  
X: 固定侧  
Y: 支撑侧

- 1 Series of symbols  
BBS: stainless steel coldrolled ball screw
- 2 Nominal outer diameter of screw shaft (mm)
- 3 Lead (mm)
- 4 Nut type
- 5 Length of thread part (mm)
- 6 Thread direction (R=right-handed)
- 7 Total length of screw shaft (mm)
- 8 Accuracy grade (C5/Ct7/Ct10)
- 9 Grease type  
0: Recommended grease (GHY No.2)  
1: Grease for food processing (FG2 No.2)  
2: Grease for clean room (MCG No.1)
- 10 Nut flange orientation  
X: Fixed side  
Y: Support side



精度等级和轴向间隙

BBS系列（不锈钢冷轧滚珠丝杆标准库存品）的精度等级有JIS C5/Ct7/Ct10三种。轴向间隙根据精度等级不同备有0.005mm（预压：C5）、0.02mm（Ct7）和0.05mm以下（Ct10）。

Accuracy class and axial clearance

Accuracy grade of BBS series (standard stock of cold rolled stainless steel ball screw) are based on C5、Ct7 and Ct10 (JIS B 1192-3) . According to accuracy grade, Axial play 0.005 (Preload : C5) 、0.02 (Ct7) and 0.05mm or less (Ct10) are in stock.

材质和表面硬度

BBS系列（不锈钢冷轧滚珠丝杆标准库存品）的螺杆轴丝杆材料SUS440C（高频淬火）、螺母材料SUS440（真空淬火），滚珠丝杆部分的表面硬度为HRC55以上。

Material & Surface Hardness

BBS series (standard stock of cold rolled stainless steel ball screws), the screw shaft screw material is SUS440C (induction hardening), the nut material is SUS440 (vacuum hardening), and the surface hardness of the ball screw part is HRC55 or higher.

轴端形状

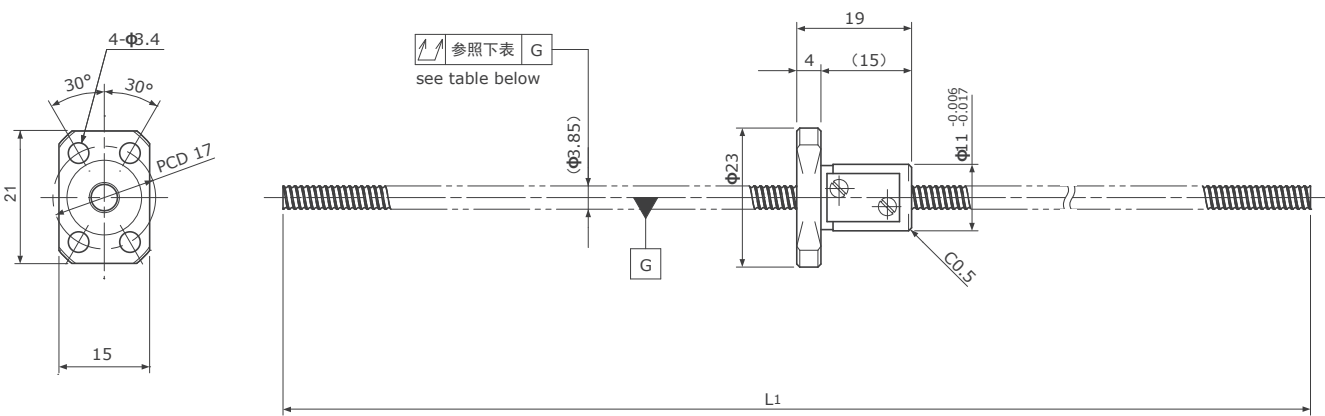
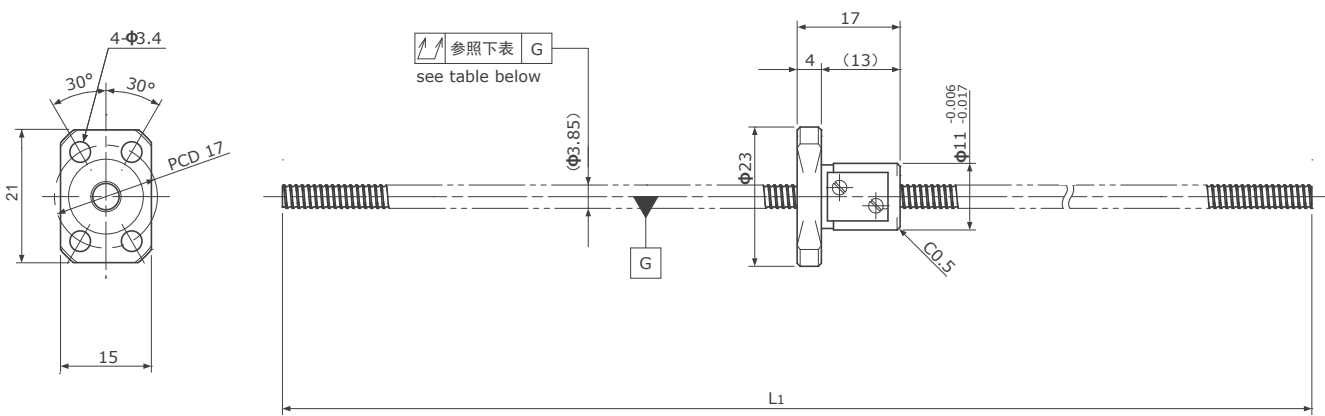
BBS系列（不锈钢冷轧滚珠丝杆标准库存品）的轴端形状已实现标准化。

Shaft End Shape

The shape of the shaft end of the BBS series (standard stock of stainless steel cold-rolled ball screws) has been standardized.

BBS0401 | Shaft dia.(轴径) $\phi$ 4   Lead(导程)1mm | C5&Ct7&Ct10 |

BBS0402 | Shaft dia.(轴径) $\phi$ 4   Lead(导程)2mm | C5&Ct7&Ct10 |



Unit(单位): mm

| Ball Screw Specifications |                         | 主要技术参数  |
|---------------------------|-------------------------|---------|
| Ball size 钢珠直径            | $\phi$ 0.8              |         |
| 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      | $\phi$ 3.3              |         |
| Number of circuit 循环数     | 3.7 $\times$ 1          |         |
| Material 材质               | Shaft 轴                 | SUS440C |
|                           | Nut 螺母                  | SUS440C |
| Surface hardness 螺纹部表面硬度  | HRC55~<br>(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            | $\phi$ 0.8              |         |
| 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      | $\phi$ 3.3              |         |
| Number of circuit 循环数     | 2.7 $\times$ 1          |         |
| Material 材质               | Shaft 轴                 | SUS440C |
|                           | Nut 螺母                  | SUS440C |
| Surface hardness 螺纹部表面硬度  | HRC55~<br>(Thread area) |         |
| Anti-rust treatment 防锈处理  | Anti-rust oil 防锈油       |         |

Unit(单位): mm

| Ball Screw Model<br>滚珠丝杠型号 | Travel<br>行程 | Grade<br>精度 | Shaft length<br>丝杠轴长度 | Lead accuracy<br>导程精度                         |                                     | Total Run-out<br>全跳动 | Axial play<br>轴向间隙 | Preload Torque<br>预压扭矩<br>Nm | Basic Load Rating<br>基本额定负载 N |                        |
|----------------------------|--------------|-------------|-----------------------|-----------------------------------------------|-------------------------------------|----------------------|--------------------|------------------------------|-------------------------------|------------------------|
|                            |              |             | L <sub>1</sub>        | Travel deviation<br>代表移动量误差<br>e <sub>p</sub> | Variation<br>波动<br>V <sub>300</sub> |                      |                    |                              | Dynamic<br>额定动负载<br>Ca        | Static<br>额定静负载<br>Coa |
| BBS0401-600R600C5          | 580          | C5          | 600                   | $\pm$ 0.030                                   | 0.018                               | 0.090                | $\sim$ 0.005       | -                            | 450                           | 600                    |
| BBS0401-600R600C7          | 580          | Ct7         | 600                   | $\pm$ 0.104                                   | 0.050                               | 0.320                | $\sim$ 0.020       |                              |                               |                        |
| BBS0401-600R600C10         | 580          | Ct10        | 600                   | $\pm$ 0.420                                   | 0.210                               | 0.640                | $\sim$ 0.050       |                              |                               |                        |

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。

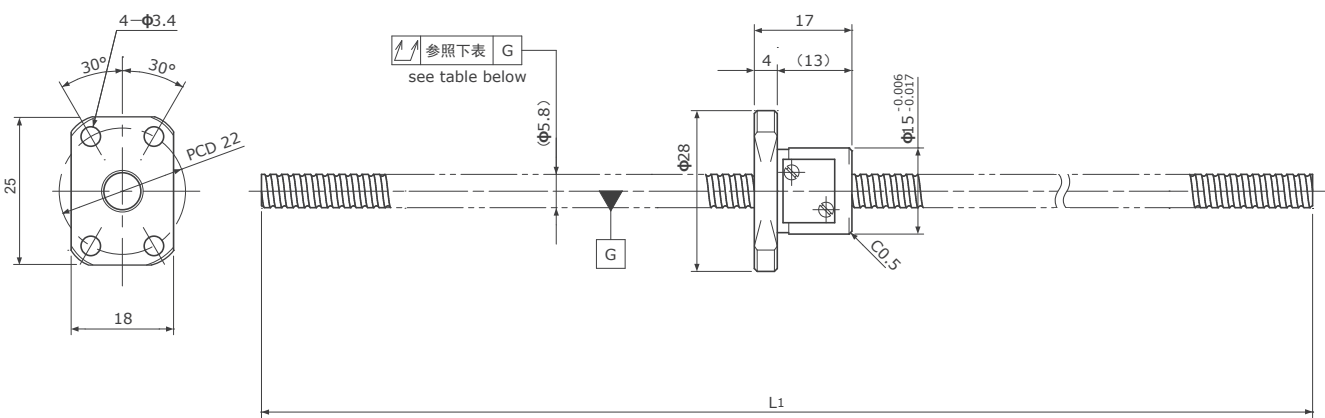
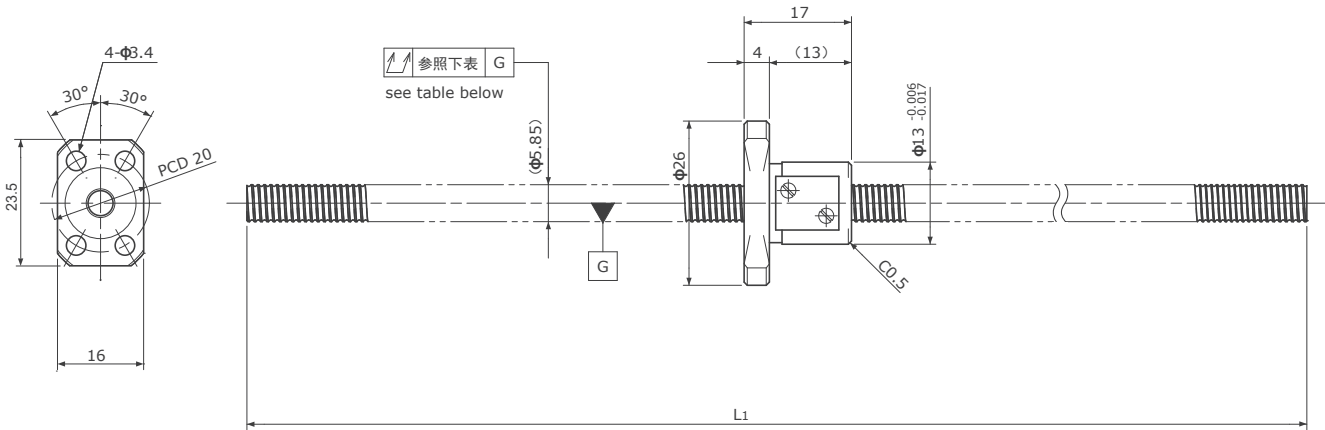
Unit(单位): mm

| Ball Screw Model<br>滚珠丝杠型号 | Travel<br>行程 | Grade<br>精度 | Shaft length<br>丝杠轴长度 | Lead accuracy<br>导程精度                         |                                     | Total Run-out<br>全跳动 | Axial play<br>轴向间隙 | Preload Torque<br>预压扭矩<br>Nm | Basic Load Rating<br>基本额定负载 N |                        |
|----------------------------|--------------|-------------|-----------------------|-----------------------------------------------|-------------------------------------|----------------------|--------------------|------------------------------|-------------------------------|------------------------|
|                            |              |             | L <sub>1</sub>        | Travel deviation<br>代表移动量误差<br>e <sub>p</sub> | Variation<br>波动<br>V <sub>300</sub> |                      |                    |                              | Dynamic<br>额定动负载<br>Ca        | Static<br>额定静负载<br>Coa |
| BBS0402-600R600C5          | 580          | C5          | 600                   | $\pm$ 0.030                                   | 0.018                               | 0.090                | $\sim$ 0.005       | -                            | 350                           | 450                    |
| BBS0402-600R600C7          | 580          | Ct7         | 600                   | $\pm$ 0.104                                   | 0.050                               | 0.320                | $\sim$ 0.020       |                              |                               |                        |
| BBS0402-600R600C10         | 580          | Ct10        | 600                   | $\pm$ 0.420                                   | 0.210                               | 0.640                | $\sim$ 0.050       |                              |                               |                        |

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。

BBS0601 | Shaft dia.(轴径) $\phi$ 6   Lead(导程)1mm | C5&Ct7&Ct10 |

BBS0602 | Shaft dia.(轴径) $\phi$ 6   Lead(导程)2mm | C5&Ct7&Ct10 |



Unit(单位): mm

| Ball Screw Specifications |                         | 主要技术参数  |
|---------------------------|-------------------------|---------|
| Ball size 钢珠直径            | φ0.8                    |         |
| 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                 | SUS440C |
|                           | Nut 螺母                  | SUS440C |
| Surface hardness 螺纹部表面硬度  | HRC55～<br>(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                    |         |
| 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                 | SUS440C |
|                           | Nut 螺母                  | SUS440C |
| Surface hardness 螺纹部表面硬度  | HRC55～<br>(Thread area) |         |
| Anti-rust treatment 防锈处理  | Anti-rust oil 防锈油       |         |

Unit(单位): mm

| Ball Screw Model<br>滚珠丝杠型号 | Travel<br>行程 | Grade<br>精度 | Shaft length<br>丝杠轴长度 | Lead accuracy<br>导程精度                         |                                     | Total Run-out<br>全跳动 | Axial play<br>轴向间隙 | Preload Torque<br>预压扭矩<br>Nm | Basic Load Rating<br>基本额定负载 N |                        |
|----------------------------|--------------|-------------|-----------------------|-----------------------------------------------|-------------------------------------|----------------------|--------------------|------------------------------|-------------------------------|------------------------|
|                            |              |             | L <sub>1</sub>        | Travel deviation<br>代表移动量误差<br>e <sub>p</sub> | Variation<br>波动<br>V <sub>300</sub> |                      |                    |                              | Dynamic<br>额定动负载<br>Ca        | Static<br>额定静负载<br>Coa |
| BBS0601-600R600C5          | 580          | C5          | 600                   | ±0.030                                        | 0.018                               | 0.090                | ～0.005             | -                            | 560                           | 900                    |
| BBS0601-600R600C7          | 580          | Ct7         | 600                   | ±0.104                                        | 0.050                               | 0.320                | ～0.020             |                              |                               |                        |
| BBS0601-600R600C10         | 580          | Ct10        | 600                   | ±0.420                                        | 0.210                               | 0.640                | ～0.050             |                              |                               |                        |

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。

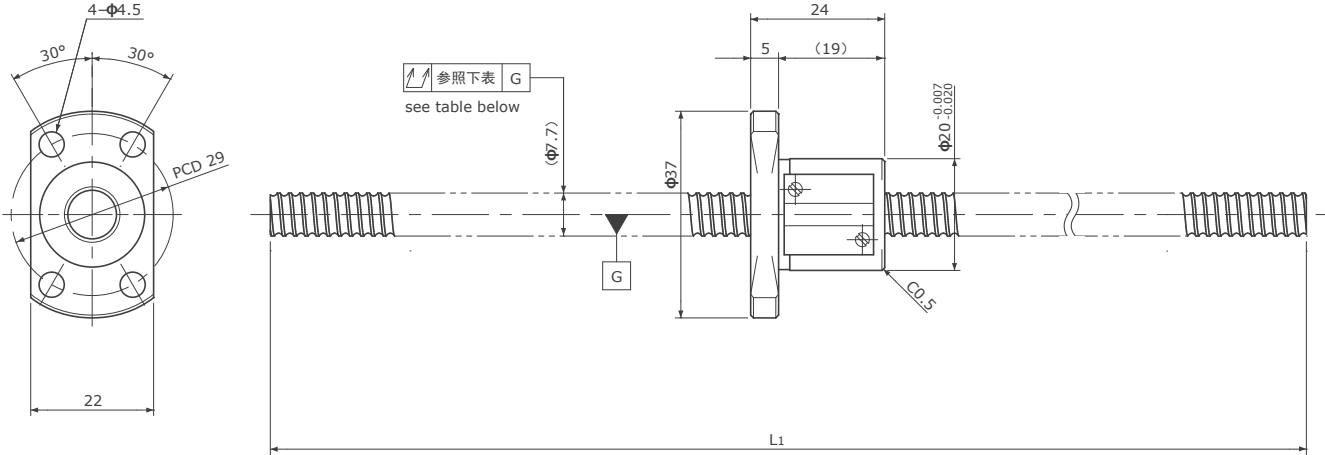
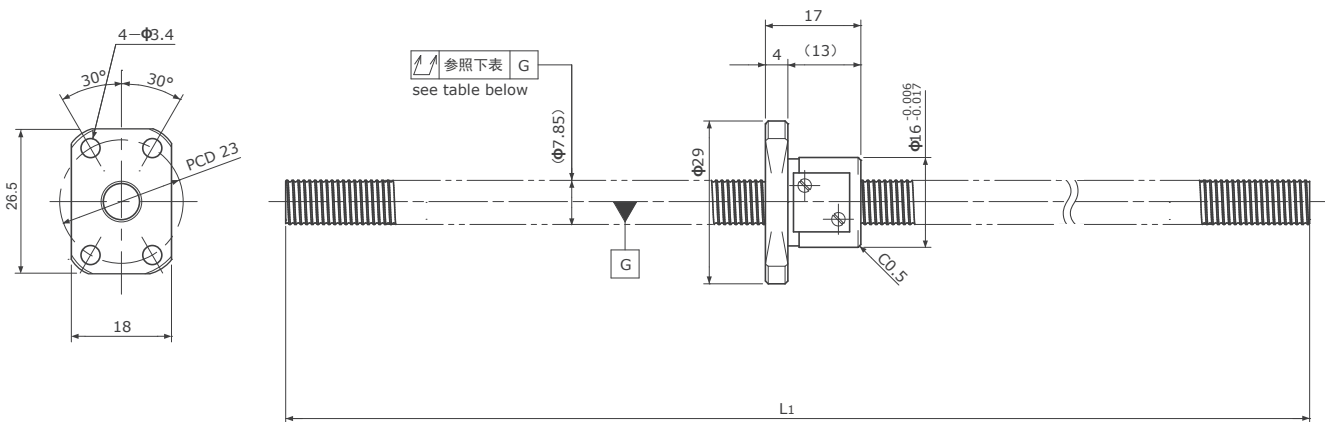
Unit(单位): mm

| Ball Screw Model<br>滚珠丝杠型号 | Travel<br>行程 | Grade<br>精度 | Shaft length<br>丝杠轴长度 | Lead accuracy<br>导程精度                         |                                     | Total Run-out<br>全跳动 | Axial play<br>轴向间隙 | Preload Torque<br>预压扭矩<br>Nm | Basic Load Rating<br>基本额定负载 N |                        |
|----------------------------|--------------|-------------|-----------------------|-----------------------------------------------|-------------------------------------|----------------------|--------------------|------------------------------|-------------------------------|------------------------|
|                            |              |             | L <sub>1</sub>        | Travel deviation<br>代表移动量误差<br>e <sub>p</sub> | Variation<br>波动<br>V <sub>300</sub> |                      |                    |                              | Dynamic<br>额定动负载<br>Ca        | Static<br>额定静负载<br>Coa |
| BBS0602-600R600C5          | 580          | C5          | 600                   | ±0.030                                        | 0.018                               | 0.090                | ～0.005             | -                            | 600                           | 960                    |
| BBS0602-600R600C7          | 580          | Ct7         | 600                   | ±0.104                                        | 0.050                               | 0.320                | ～0.020             |                              |                               |                        |
| BBS0602-600R600C10         | 580          | Ct10        | 600                   | ±0.420                                        | 0.210                               | 0.640                | ～0.050             |                              |                               |                        |

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。

BBS0801 | Shaft dia.(轴径) $\phi$ 8 Lead(导程)1mm | C5&Ct7&Ct10 |

BBS0802 | Shaft dia.(轴径) $\phi$ 8 Lead(导程)2mm | C5&Ct7&Ct10 |



Unit(单位): mm

| Ball Screw Specifications |                         | 主要技术参数  |
|---------------------------|-------------------------|---------|
| Ball size 钢珠直径            | $\phi$ 0.8              |         |
| 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      | $\phi$ 7.3              |         |
| Number of circuit 循环数     | 3.7 $\times$ 1          |         |
| Material 材质               | Shaft 轴                 | SUS440C |
|                           | Nut 螺母                  | SUS440C |
| Surface hardness 螺纹部表面硬度  | HRC55~<br>(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            | $\phi$ 1.5875           |         |
| 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      | $\phi$ 6.6              |         |
| Number of circuit 循环数     | 3.7 $\times$ 1          |         |
| Material 材质               | Shaft 轴                 | SUS440C |
|                           | Nut 螺母                  | SUS440C |
| Surface hardness 螺纹部表面硬度  | HRC55~<br>(Thread area) |         |
| Anti-rust treatment 防锈处理  | Anti-rust oil 防锈油       |         |

Unit(单位): mm

| Ball Screw Model<br>滚珠丝杠型号 | Travel<br>行程 | Grade<br>精度 | Shaft length<br>丝杠轴长度 | Lead accuracy<br>导程精度                         |                                     | Total Run-out<br>全跳动 | Axial play<br>轴向间隙 | Preload Torque<br>预压扭矩<br>Nm | Basic Load Rating<br>基本额定负载 N |                        |
|----------------------------|--------------|-------------|-----------------------|-----------------------------------------------|-------------------------------------|----------------------|--------------------|------------------------------|-------------------------------|------------------------|
|                            |              |             | L <sub>1</sub>        | Travel deviation<br>代表移动量误差<br>e <sub>p</sub> | Variation<br>波动<br>V <sub>300</sub> |                      |                    |                              | Dynamic<br>额定动负载<br>Ca        | Static<br>额定静负载<br>Coa |
| BBS0801-600R600C5          | 580          | C5          | 600                   | $\pm$ 0.030                                   | 0.018                               | 0.090                | $\sim$ 0.005       | -                            | 630                           | 1250                   |
| BBS0801-600R600C7          | 580          | Ct7         | 600                   | $\pm$ 0.104                                   | 0.050                               | 0.150                | $\sim$ 0.020       |                              |                               |                        |
| BBS0801-600R600C10         | 580          | Ct10        | 600                   | $\pm$ 0.420                                   | 0.210                               | 0.350                | $\sim$ 0.050       |                              |                               |                        |

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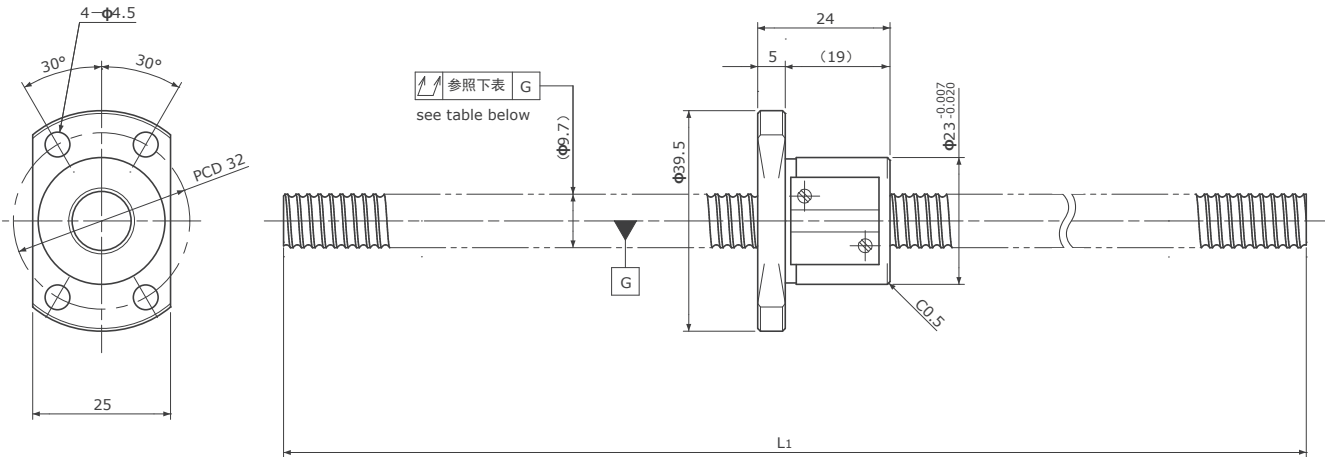
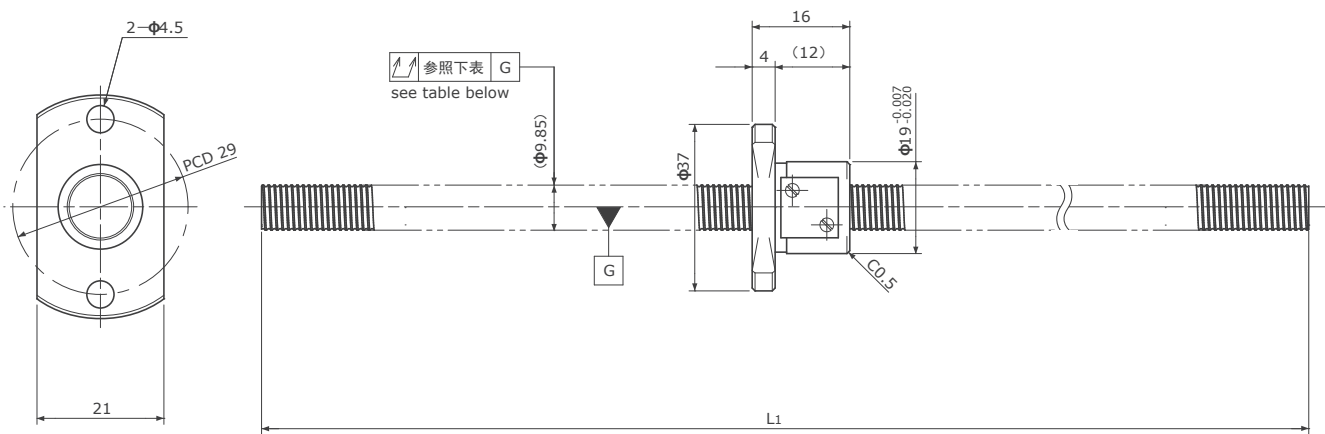
Unit(单位): mm

| Ball Screw Model<br>滚珠丝杠型号 | Travel<br>行程 | Grade<br>精度 | Shaft length<br>丝杠轴长度 | Lead accuracy<br>导程精度                         |                                     | Total Run-out<br>全跳动 | Axial play<br>轴向间隙 | Preload Torque<br>预压扭矩<br>Nm | Basic Load Rating<br>基本额定负载 N |                        |
|----------------------------|--------------|-------------|-----------------------|-----------------------------------------------|-------------------------------------|----------------------|--------------------|------------------------------|-------------------------------|------------------------|
|                            |              |             | L <sub>1</sub>        | Travel deviation<br>代表移动量误差<br>e <sub>p</sub> | Variation<br>波动<br>V <sub>300</sub> |                      |                    |                              | Dynamic<br>额定动负载<br>Ca        | Static<br>额定静负载<br>Coa |
| BBS0802-600R600C5          | 575          | C5          | 600                   | $\pm$ 0.030                                   | 0.018                               | 0.090                | $\sim$ 0.005       | -                            | 1950                          | 3100                   |
| BBS0802-600R600C7          | 575          | Ct7         | 600                   | $\pm$ 0.104                                   | 0.050                               | 0.150                | $\sim$ 0.020       |                              |                               |                        |
| BBS0802-600R600C10         | 575          | Ct10        | 600                   | $\pm$ 0.420                                   | 0.210                               | 0.350                | $\sim$ 0.050       |                              |                               |                        |

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。

BBS1001 | Shaft dia.(轴径) $\phi$ 10 Lead(导程)1mm | C5&Ct7&Ct10 |

BBS1002 | Shaft dia.(轴径) $\phi$ 10 Lead(导程)2mm | C5&Ct7&Ct10 |



| Ball Screw Specifications |                         | 主要技术参数  |
|---------------------------|-------------------------|---------|
| Ball size 钢珠直径            | φ0.8                    |         |
| 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      | φ9.3                    |         |
| Number of circuit 循环数     | 3.7×1                   |         |
| Material 材质               | Shaft 轴                 | SUS440C |
|                           | Nut 螺母                  | SUS440C |
| Surface hardness 螺纹部表面硬度  | HRC55~<br>(Thread area) |         |
| Anti-rust treatment 防锈处理  | Anti-rust oil 防锈油       |         |

| Ball Screw Specifications |                         | 主要技术参数  |
|---------------------------|-------------------------|---------|
| Ball size 钢珠直径            | φ1.5875                 |         |
| 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      | φ8.6                    |         |
| Number of circuit 循环数     | 3.7×1                   |         |
| Material 材质               | Shaft 轴                 | SUS440C |
|                           | Nut 螺母                  | SUS440C |
| Surface hardness 螺纹部表面硬度  | HRC55~<br>(Thread area) |         |
| Anti-rust treatment 防锈处理  | Anti-rust oil 防锈油       |         |

| Ball Screw Model<br>滚珠丝杠型号 | Travel<br>行程 | Grade<br>精度 | Shaft length<br>丝杠轴长度 | Lead accuracy<br>导程精度                         |                                     | Total Run-out<br>全跳动 | Axial play<br>轴向间隙 | Preload Torque<br>预压扭矩<br>Nm | Basic Load Rating<br>基本额定负载 N |                        |
|----------------------------|--------------|-------------|-----------------------|-----------------------------------------------|-------------------------------------|----------------------|--------------------|------------------------------|-------------------------------|------------------------|
|                            |              |             | L <sub>1</sub>        | Travel deviation<br>代表移动量误差<br>e <sub>p</sub> | Variation<br>波动<br>V <sub>300</sub> |                      |                    |                              | Dynamic<br>额定动负载<br>Ca        | Static<br>额定静负载<br>Coa |
| BBS1001-600R600C5          | 580          | C5          | 600                   | ±0.030                                        | 0.018                               | 0.090                | ~0.005             | -                            | 680                           | 1500                   |
| BBS1001-600R600C7          | 580          | Ct7         | 600                   | ±0.104                                        | 0.050                               | 0.150                | ~0.020             |                              |                               |                        |
| BBS1001-600R600C10         | 580          | Ct10        | 600                   | ±0.420                                        | 0.210                               | 0.350                | ~0.050             |                              |                               |                        |

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<br>滚珠丝杠型号 | Travel<br>行程 | Grade<br>精度 | Shaft length<br>丝杠轴长度 | Lead accuracy<br>导程精度                         |                                     | Total Run-out<br>全跳动 | Axial play<br>轴向间隙 | Preload Torque<br>预压扭矩<br>Nm | Basic Load Rating<br>基本额定负载 N |                        |
|----------------------------|--------------|-------------|-----------------------|-----------------------------------------------|-------------------------------------|----------------------|--------------------|------------------------------|-------------------------------|------------------------|
|                            |              |             | L <sub>1</sub>        | Travel deviation<br>代表移动量误差<br>e <sub>p</sub> | Variation<br>波动<br>V <sub>300</sub> |                      |                    |                              | Dynamic<br>额定动负载<br>Ca        | Static<br>额定静负载<br>Coa |
| BBS1002-600R600C5          | 575          | C5          | 600                   | ±0.030                                        | 0.018                               | 0.090                | ~0.005             | -                            | 2200                          | 4000                   |
| BBS1002-600R600C7          | 575          | Ct7         | 600                   | ±0.104                                        | 0.050                               | 0.150                | ~0.020             |                              |                               |                        |
| BBS1002-600R600C10         | 575          | Ct10        | 600                   | ±0.420                                        | 0.210                               | 0.350                | ~0.050             |                              |                               |                        |

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。