

SR/SSR series Standardized Rolled Ball Screws

Rolled Ball Screws with accuracy Ct7 and Ct10 are available in stock. It is suitable for low cost design.
Rolled Ball Screws with end-journal machining are available for short delivery.
Stainless Rolled Ball Screws are also available.

●Combination of Shaft nominal dia. & Lead

Unit: mm

Lead Shaft dia.	1	2	2.5	4	5	6	8	10	12	15	20
4	A247 A248	A249									
5				A250							
6	A251 A252 A281	A253				A254		A255			
8	A256 A257 A282	A258 A259 A283	A260		A261		A262	A263	A264		
10		A265 A266 A284		A267	A268			A269		A270	A271
12		A272 A273						A274			
14		A275		A276							
15					A277			A278			A279

Note 1)The models marked red are available for Stainless Rolled Ball Screws.
Note 2)The numbers in a table : showing a page in this catalogue.

●Model number notation

SR 06 01 K — 200 R 200 C7
① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ①Rolled Ball Screws Series No.
SR : Rolled Ball Screws
SSR : Stainless Rolled Ball Screws
②Screw Shaft nominal diameter(mm)
③Lead(mm)
④Ball Nut type
None : Standard
K : Compact type
⑤Screw thread length(mm)
⑥Thread direction(R=Right-hand)
⑦Screw Shaft total length(mm)
⑧Accuracy grade(C7 or C10)

●Accuracy Grade & Axial play

Accuracy grade of SR series (Standardized Rolled Ball Screws) and SSR series (Standardized Stainless Rolled Ball Screws) are based on Ct7 and Ct10(JIS B 1192-3). According to accuracy grade, Axial play 0.020mm or less (Ct7) and 0.050mm or less (Ct10) are in stock.

●Material & Surface hardness

Materials and Surface hardness of SR series (Standardized Rolled Ball Screws) and SSR series (Standardized Stainless Rolled Ball Screws) are as follows.

Products	Material	Heat treatment	Surface hardness
Rolled Ball Screws (SR series)	Shaft : SCM415 S55C SUJ2	Carburizing Induction Hardening Quench & Temper	HRC58 or more
	Nut : SCM415	Carburizing and Quenching	
Stainless Rolled Ball Screws (SSR series)	Shaft : SUS440C	Induction hardening	HRC55 or more
	Nut : SUS440C	Vacuum hardening	

●Lubrication

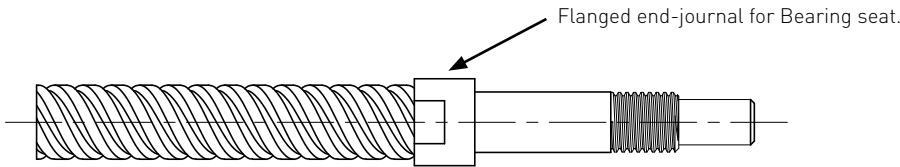
SR series (Standardized Rolled Ball Screws) and SSR series (Standardized Stainless Rolled Ball Screws) without end-journal machining are applied with anti-rust oil for rust prevention.
Anti-rust oil does not have lubricating function so that please apply the Grease or lubrication oil when using the Ball Screws.
If there is no specific instruction, KSS would recommend our original Grease (MSG No.2) as standard lubricant.
Please feel free to contact us.

●Precision Rolled Ball Screws

High accuracy(JIS C5) can be produced by Rolled process, what we call Precision Rolled Ball Screws(PSR/PSRT series). Please see page A319.

●Others

End-journal configuration of SR series (Standardized Rolled Ball Screws) and SSR series (Standardized stainless Rolled Ball Screws) are not standardized. When you request additional machining, please send us a drawing with end-journal profile.
Rolled Ball Screws with Integrated end-journal, which is bigger Bearing face than supported seat, are available (SRT/SSRT series) as shown below.
Please refer to page A285 or ask KSS.

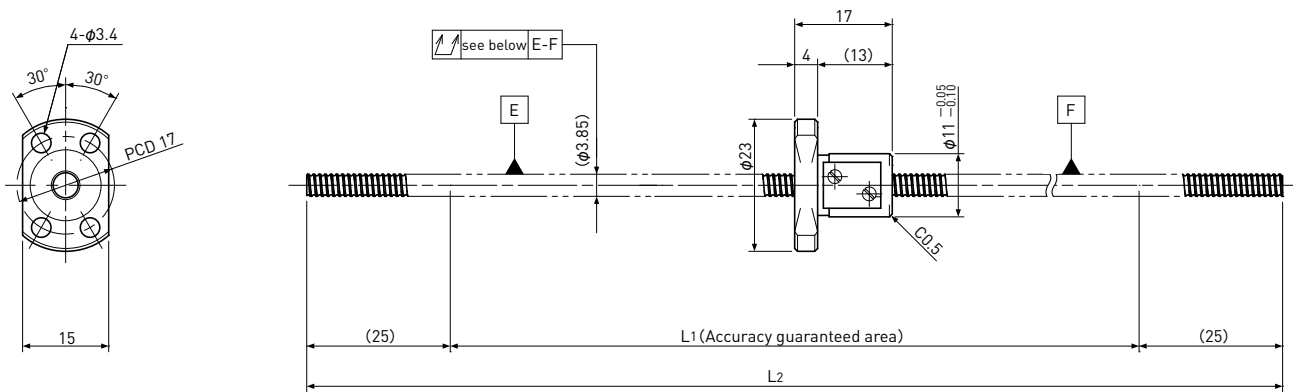


Standard products in stock SR series

SR0401

Shaft dia. $\phi 4$ Lead 1mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 0.8$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 3.3$
Number of circuit	3.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0401-250R250C7	180	Ct7	200	250	±0.03	—	0.200	~0.020	—	560	790
SR0401-250R250C10	180	Ct10	200	250	±0.14	—	0.400	~0.050			

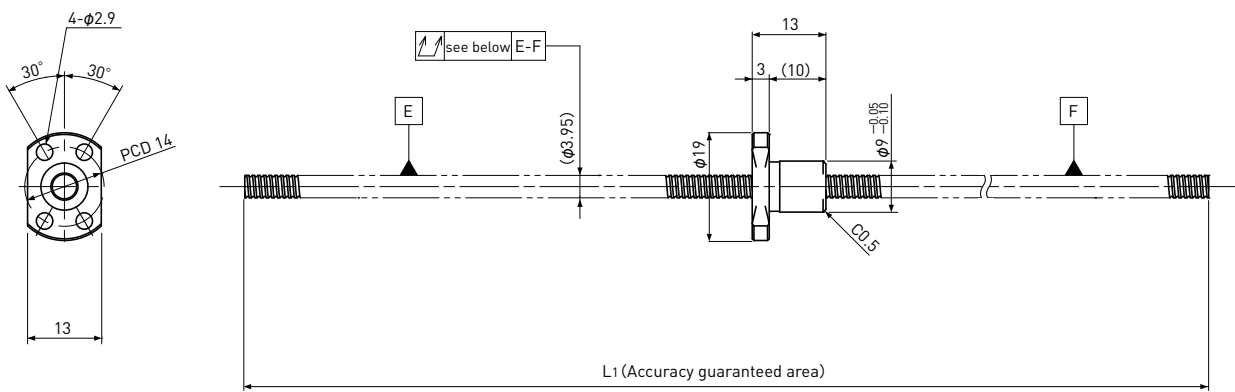
Note)Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0401K

Compact Nut
Shaft dia. $\phi 4$ Lead 1mm

Ct7&Ct10



Unit:mm

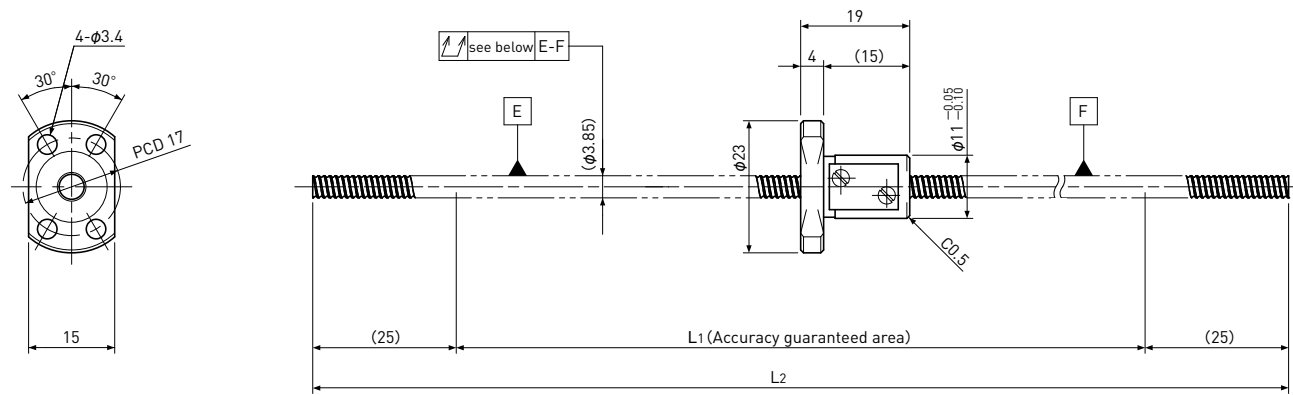
Ball Screw Specifications		
Ball size	$\phi 0.6$	
Number of thread	1	
Thread direction	Right	
Shaft root dia.	$\phi 3.4$	
Number of circuit	1×3	
Material	Shaft	S55C
	Nut	SCM415H
Surface hardness	HRC58~ (Thread area)	
Anti-rust treatment	Anti-rust oil	

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0401K-100R100C7	80	Ct7	100	—	±0.02	—	0.080	~0.020	—	300	430
SR0401K-100R100C10	80	Ct10	100	—	±0.07	—	0.160	~0.050			

Note)Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0402Shaft dia. $\phi 4$ Lead 2mm**Ct7&Ct10**

Unit:mm

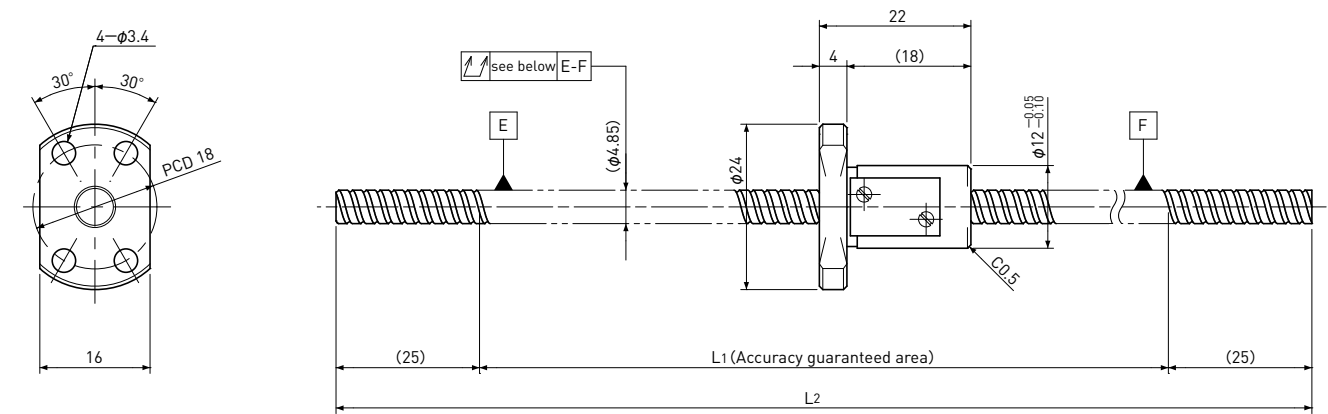
Ball Screw Specifications	
Ball size	$\phi 0.8$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 3.3$
Number of circuit	2.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L1	L2	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0402-250R250C7	180	Ct7	200	250	± 0.03	—	0.200	~ 0.020	—	420	570
SR0402-250R250C10	180	Ct10	200	250	± 0.14	—	0.400	~ 0.050			

Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0504Shaft dia. $\phi 5$ Lead 4mm**Ct7&Ct10**

Unit:mm

Ball Screw Specifications	
Ball size	$\phi 0.8$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 4.3$
Number of circuit	2.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L1	L2	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0504-250R250C7	175	Ct7	200	250	± 0.03	—	0.120	~ 0.020	—	470	720
SR0504-250R250C10	175	Ct10	200	250	± 0.14	—	0.240	~ 0.050			

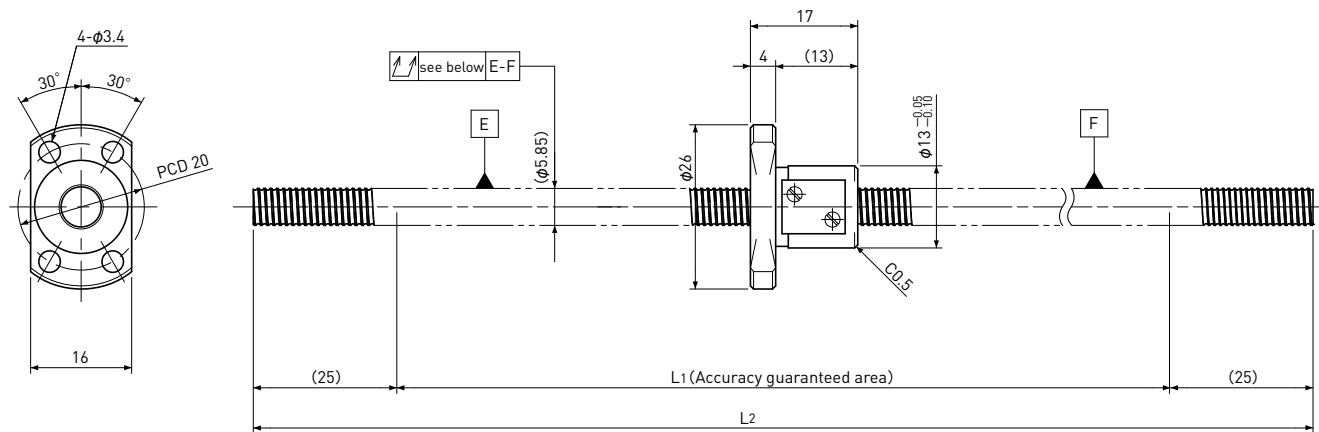
Note) Please designate end-journal profile with your sketch.

SR0601

Shaft dia. $\phi 6$ Lead 1mm

Ct7&Ct10

*Please refer to page A281 for stainless steel type.



Unit:mm

Ball Screw Specifications	
Ball size	φ 0.8
Number of thread	1
Thread direction	Right
Shaft root dia.	φ 5.3
Number of circuit	3.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out 	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e _p	Variation V ₃₀₀				Dynamic C _a	Static C _{0a}
SR0601-300R300C7	230	Ct7	250	300	±0.04	—	0.120	~0.020	—	680	1200
SR0601-300R300C10	230	Ct10	250	300	±0.17	—	0.240	~0.050			

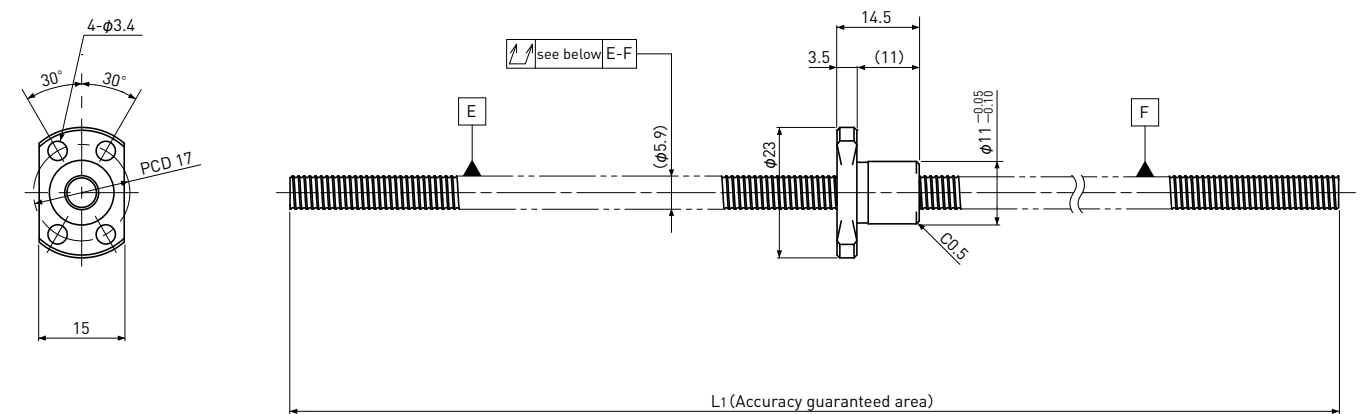
Note) Please designate end-journal profile with your sketch.

SR0601K

Compact Nut

Shaft dia. $\phi 6$ Lead 1mm

Ct7&Ct10 |



Unit:mm

Ball Screw Specifications		
Ball size		φ 0.8
Number of thread		1
Thread direction		Right
Shaft root dia.		φ 5.3
Number of circuit		1×3
material	Shaft	S55C
	Nut	SCM415H
Surface hardness		HRC58~ (Thread area)
Anti-rust treatment		Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out 	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e _p	Variation V ₃₀₀				Dynamic C _a	Static C _{0a}
SR0601K-200R200C7	175	Ct7	200	—	±0.03	—	0.080	~0.020	—	560	950
SR0601K-200R200C10	175	Ct10	200	—	±0.14	—	0.160	~0.050			

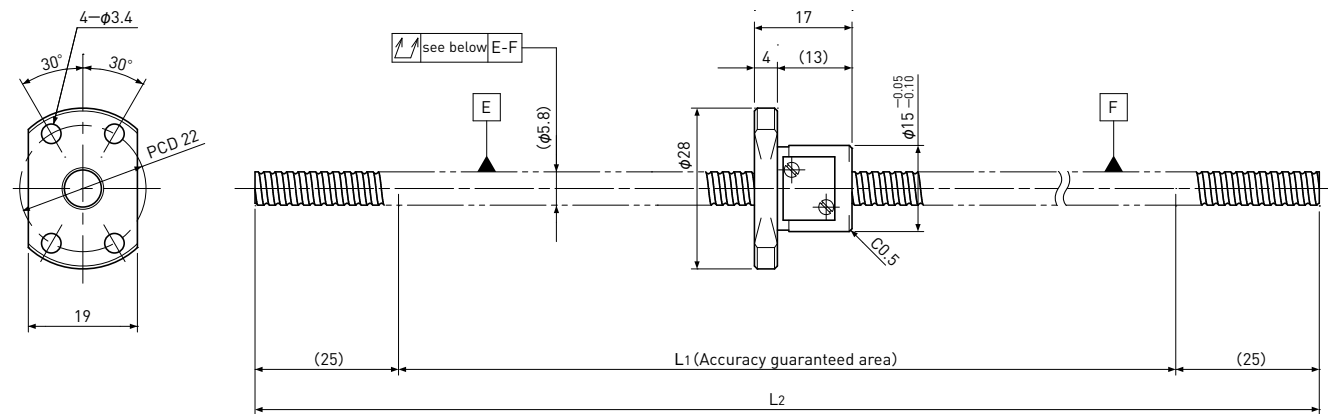
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0602

Shaft dia. $\phi 6$ Lead 2mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 1.0$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 5.1$
Number of circuit	2.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0602-300R300C7	230	Ct7	250	300	±0.04	—	0.120	~0.020	—	750	1200
SR0602-300R300C10	230	Ct10	250	300	±0.17	—	0.240	~0.050			

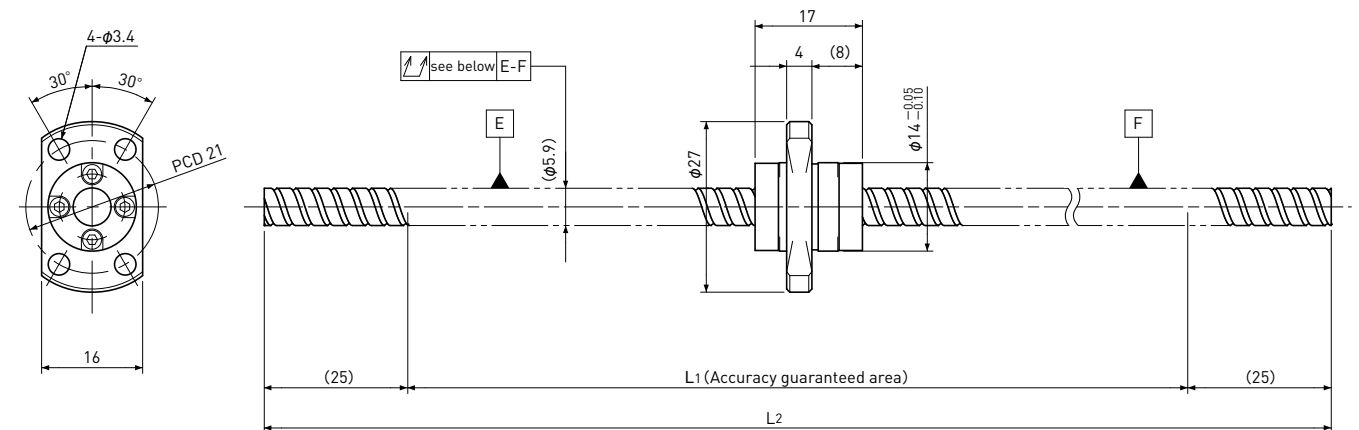
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0606

Shaft dia. $\phi 6$ Lead 6mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 1.0$
Number of thread	2
Thread direction	Right
Shaft root dia.	$\phi 5.2$
Number of circuit	1.6×2
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0606-300R300C7	230	Ct7	250	300	±0.04	—	0.120	~0.020	—	870	1450
SR0606-300R300C10	230	Ct10	250	300	±0.17	—	0.240	~0.050			

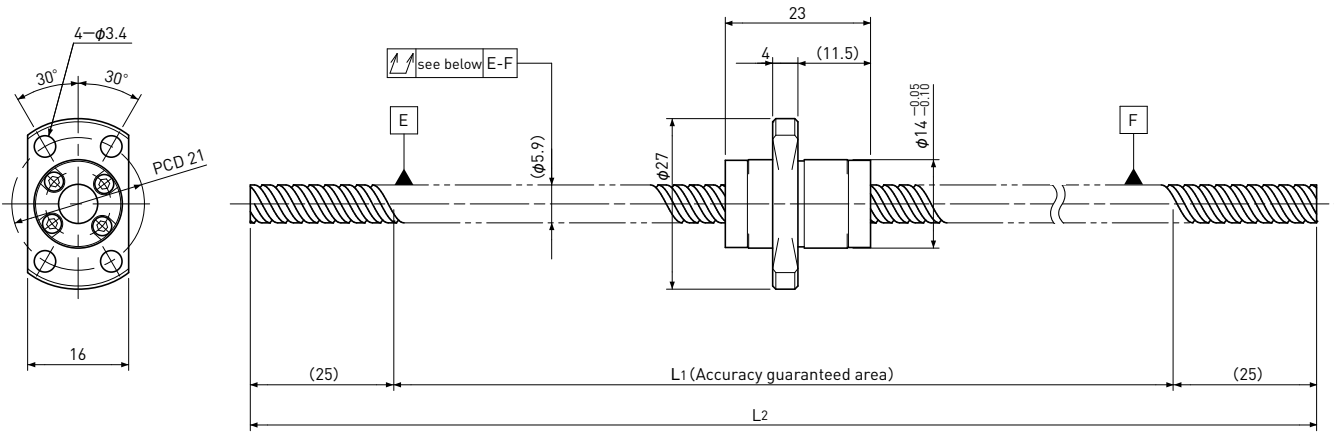
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0610

Shaft dia. $\phi 6$ Lead 10mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 1.2$
Number of thread	2
Thread direction	Right
Shaft root dia.	$\phi 5.0$
Number of circuit	1.2×2
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0610-300R300C7	225	Ct7	250	300	± 0.04	—	0.120	~0.020	—	950	1600
SR0610-300R300C10	225	Ct10	250	300	± 0.17	—	0.240	~0.050			

Note)Please designate end-journal profile with your sketch.

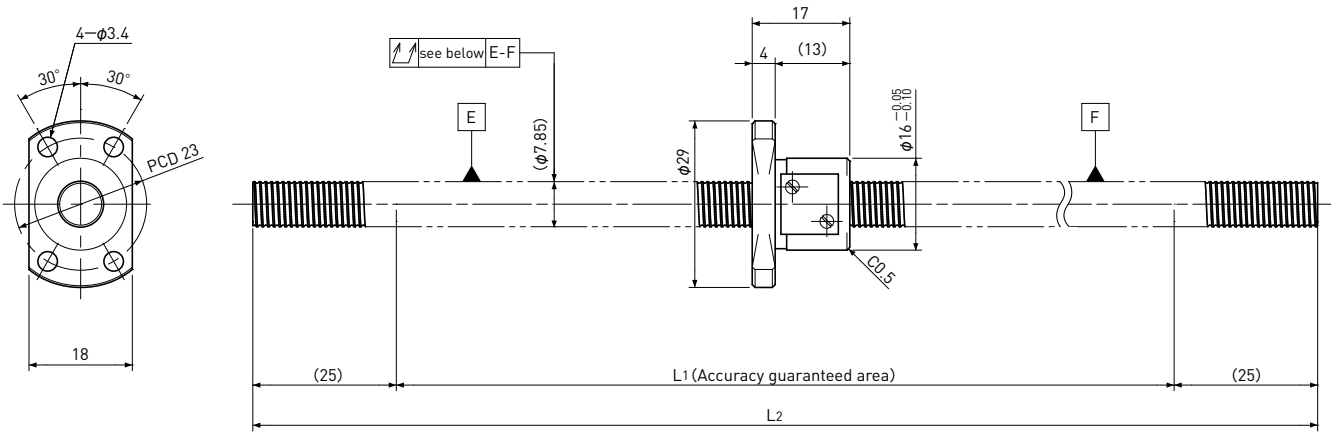
Standard products in stock SR series

SR0801

Shaft dia. $\phi 8$ Lead 1mm

Ct7&Ct10

* Please refer to page A282 for stainless steel type.



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 0.8$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 7.3$
Number of circuit	3.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

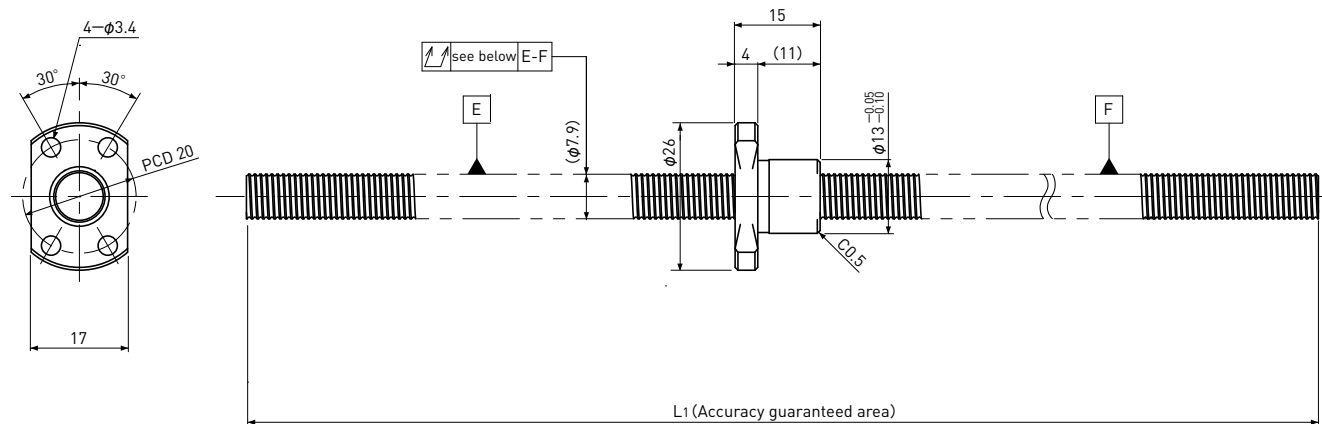
Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0801-400R400C7	330	Ct7	350	400	± 0.06	0.05	0.120	~0.020	—	780	1650
SR0801-400R400C10	330	Ct10	350	400	± 0.24	0.21	0.240	~0.050			

Note)Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0801K

Compact Nut

Shaft dia. $\phi 8$ Lead 1mm**Ct7&Ct10**

Unit:mm

Ball Screw Specifications		
Ball size	$\phi 0.8$	
Number of thread	1	
Thread direction	Right	
Shaft root dia.	$\phi 7.3$	
Number of circuit	1×3	
material	Shaft	S55C
	Nut	SCM415H
Surface hardness	HRC58~ (Thread area)	
Anti-rust treatment	Anti-rust oil	

Unit:mm

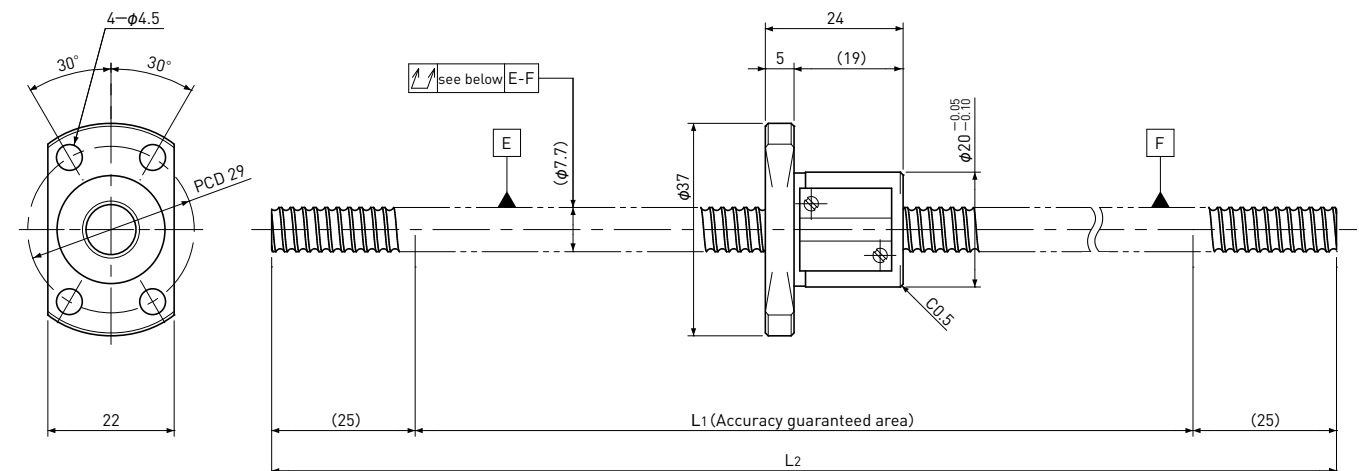
Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0801K-230R230C7	200	Ct7	230	—	± 0.03	—	0.080	~ 0.020	—	650	1300
SR0801K-230R230C10	200	Ct10	230	—	± 0.16	—	0.160	~ 0.050			

Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0802Shaft dia. $\phi 8$ Lead 2mm**Ct7&Ct10**

* Please refer to page A283 for stainless steel type.



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 1.5875$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 6.6$
Number of circuit	3.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0802-400R400C7	325	Ct7	350	400	± 0.06	0.05	0.120	~ 0.020	—	2400	4100
SR0802-400R400C10	325	Ct10	350	400	± 0.24	0.21	0.240	~ 0.050			

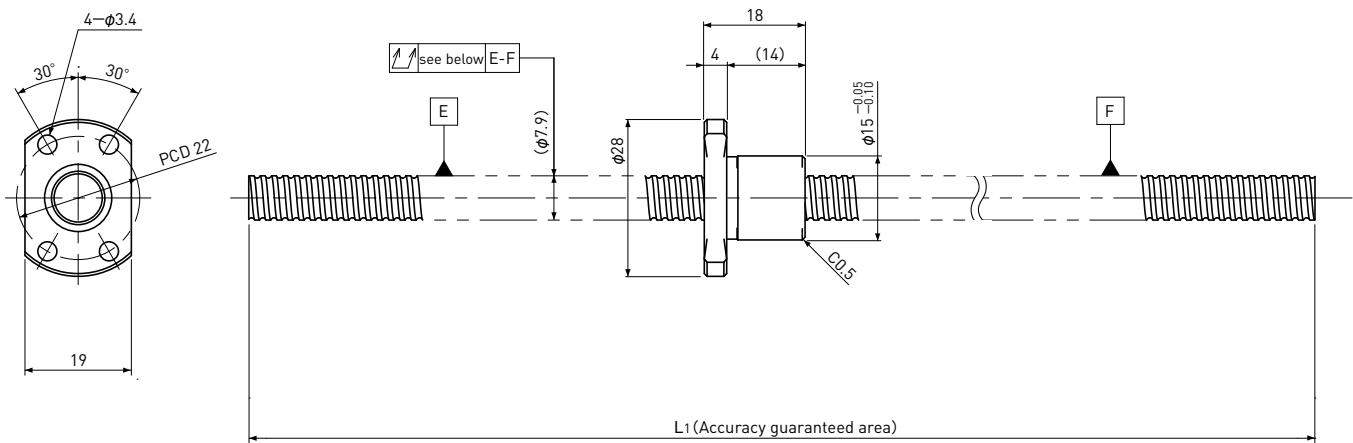
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0802K

Compact Nut
Shaft dia. $\phi 8$ Lead 2mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications		
Ball size	$\phi 1.2$	
Number of thread	1	
Thread direction	Right	
Shaft root dia.	$\phi 7.0$	
Number of circuit	1×3	
Material	Shaft	S55C
	Nut	SCM415H
Surface hardness	HRC58~ (Thread area)	
Anti-rust treatment	Anti-rust oil	

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0802K-230R230C7	200	Ct7	230	—	± 0.03	—	0.080	~ 0.020	—	1300	2300
SR0802K-230R230C10	200	Ct10	230	—	± 0.16	—	0.160	~ 0.050			

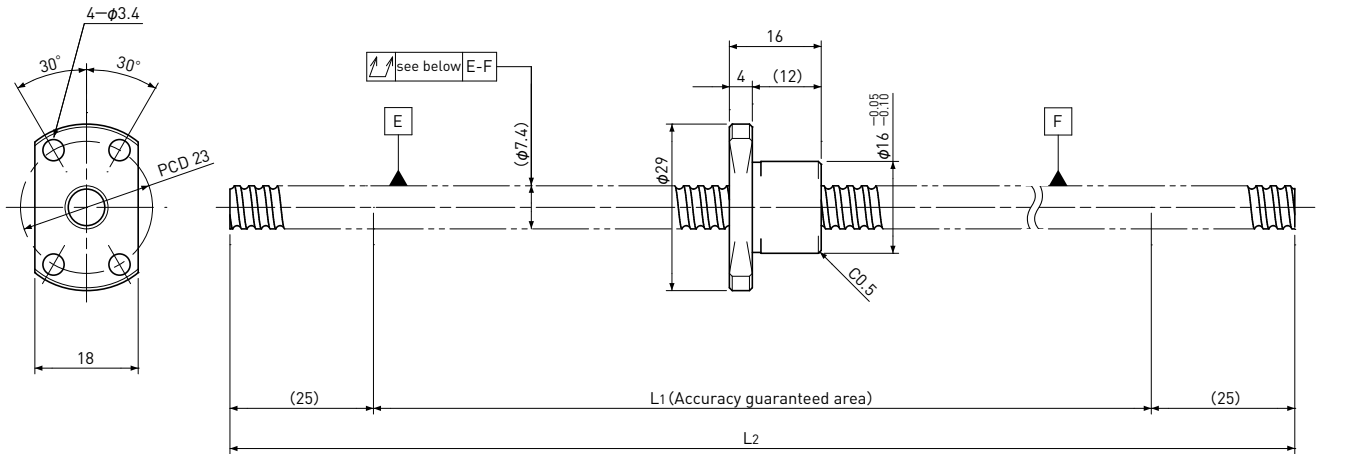
Note)Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0802.5

Shaft dia. $\phi 8$ Lead 2.5mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 1.5875$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 6.3$
Number of circuit	2.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

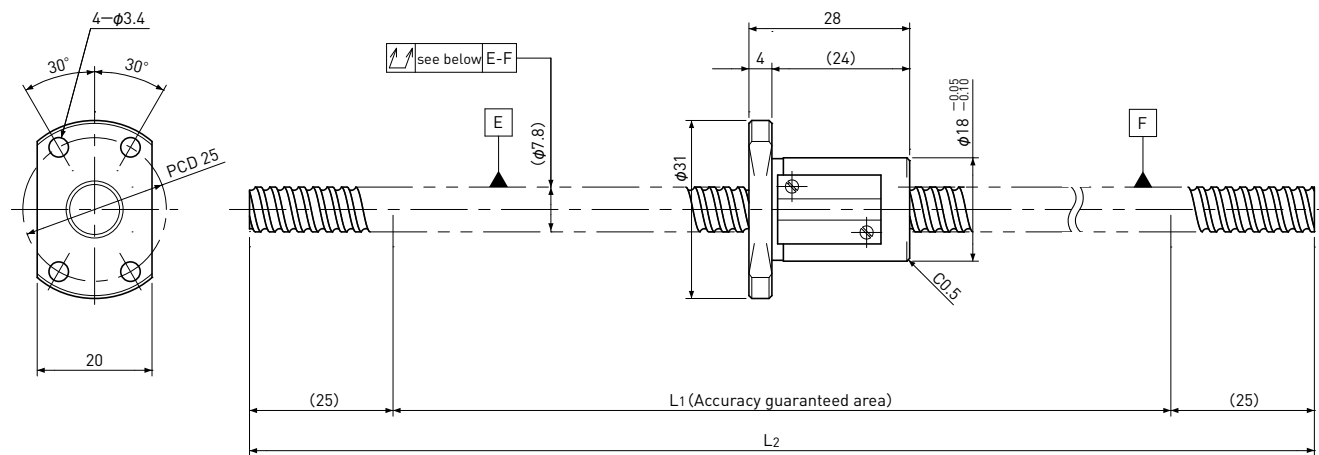
Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0802.5-400R400C7	330	Ct7	350	400	± 0.06	0.05	0.120	~ 0.020	—	1850	3000
SR0802.5-400R400C10	330	Ct10	350	400	± 0.24	0.21	0.240	~ 0.050			

Note)Please designate end-journal profile with your sketch.

SR0805

Shaft dia. $\phi 8$ Lead 5mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	φ 1.5875
Number of thread	1
Thread direction	Right
Shaft root dia.	φ 6.6
Number of circuit	2.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

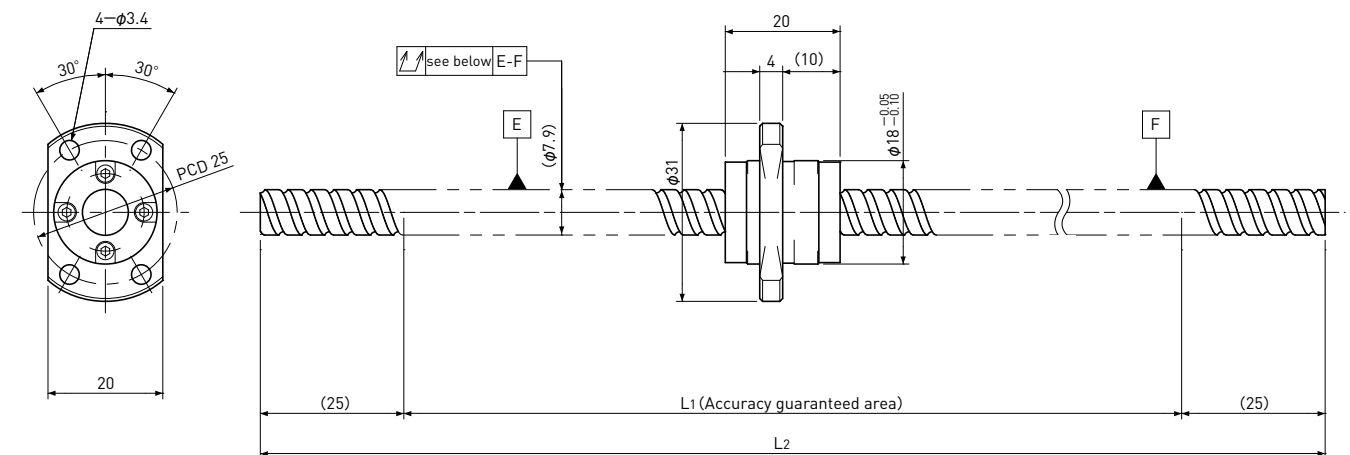
Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out 	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e _p	Variation V ₃₀₀				Dynamic C _a	Static C _{0a}
SR0805-400R400C7	320	Ct7	350	400	±0.06	0.05	0.120	~0.020	—	1850	3000
SR0805-400R400C10	320	Ct10	350	400	±0.24	0.21	0.240	~0.050			

Note) Please designate end-journal profile with your sketch.

SR0808

Shaft dia. $\phi 8$ Lead 8mm

Ct7&Ct10 |



Unit:mm

Ball Screw Specifications	
Ball size	φ 1.5875
Number of thread	2
Thread direction	Right
Shaft root dia.	φ 6.7
Number of circuit	1.6×2
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out 	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e _p	Variation V ₃₀₀				Dynamic Ca	Static Coa
SR0808-400R400C7	330	Ct7	350	400	±0.06	0.05	0.120	~0.020	—	2200	3800
SR0808-400R400C10	330	Ct10	350	400	±0.24	0.21	0.240	~0.050			

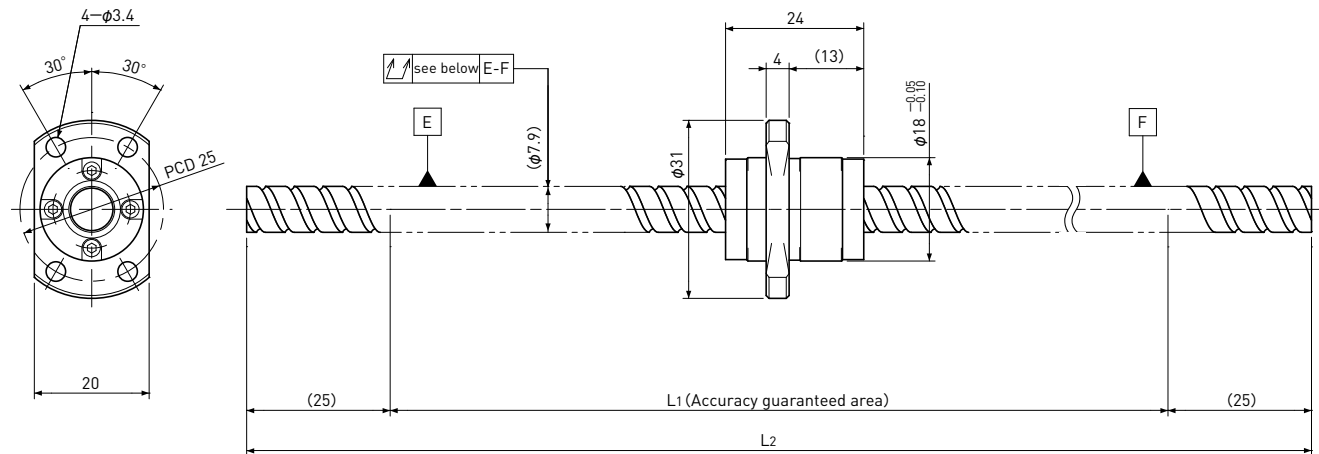
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0810

Shaft dia. $\phi 8$ Lead 10mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 1.5875$
Number of thread	2
Thread direction	Right
Shaft root dia.	$\phi 6.7$
Number of circuit	1.6×2
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L1	L2	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0810-400R400C7	325	Ct7	350	400	± 0.06	0.05	0.120	~ 0.020	—	2200	3800
SR0810-400R400C10	325	Ct10	350	400	± 0.24	0.21	0.240	~ 0.050			

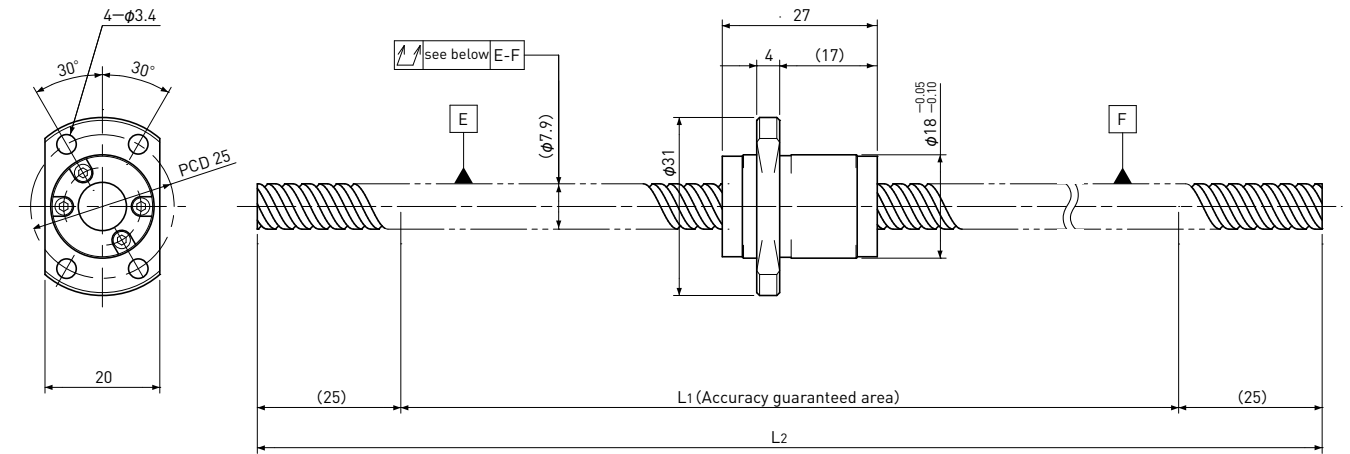
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR0812

Shaft dia. $\phi 8$ Lead 12mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 1.5875$
Number of thread	2
Thread direction	Right
Shaft root dia.	$\phi 6.7$
Number of circuit	1.6×2
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

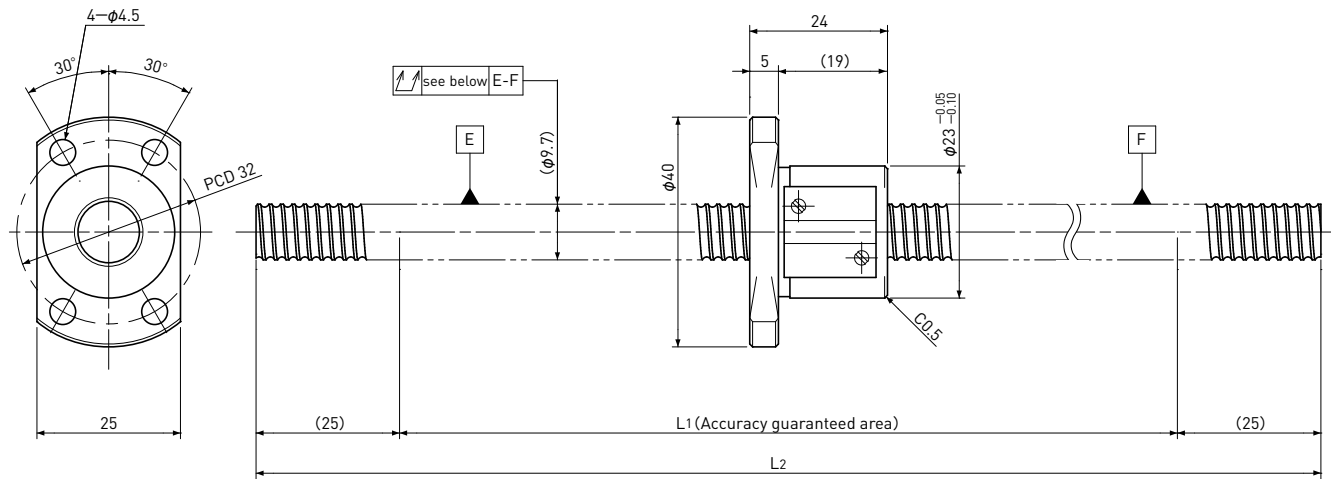
Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L1	L2	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR0812-400R400C7	320	Ct7	350	400	± 0.06	0.05	0.120	~ 0.020	—	2200	4000
SR0812-400R400C10	320	Ct10	350	400	± 0.24	0.21	0.240	~ 0.050			

Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1002Shaft dia. $\phi 10$ Lead 2mm**Ct7&Ct10**

* Please refer to page A284 for stainless steel type.



Unit:mm

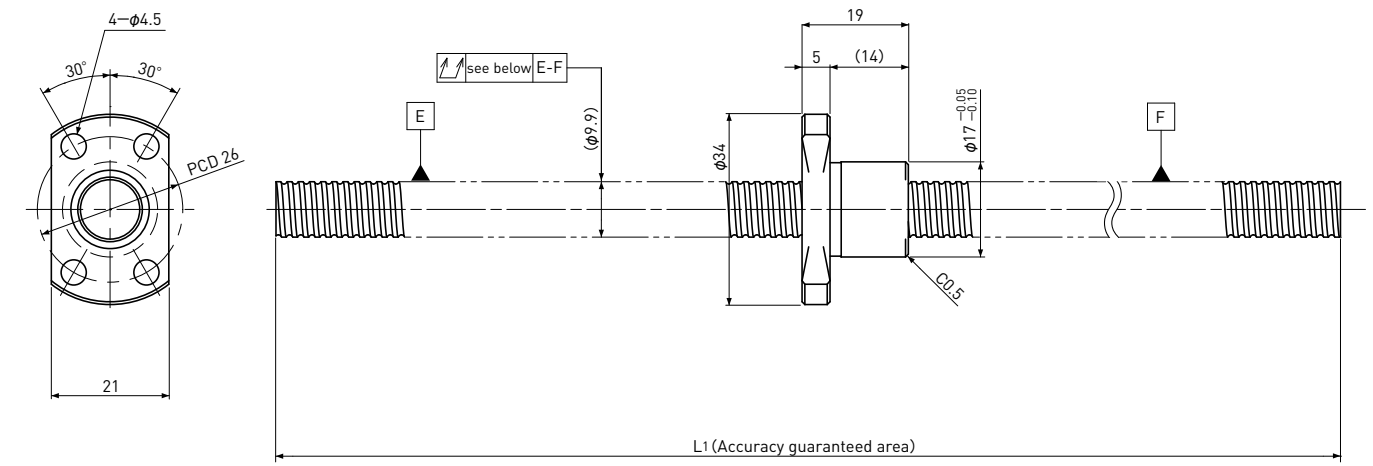
Ball Screw Specifications	
Ball size	$\phi 1.5875$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 8.6$
Number of circuit	3.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1002-400R400C7	325	Ct7	350	400	± 0.05	0.05	0.080	~ 0.020	—	2700	5300
SR1002-400R400C10	325	Ct10	350	400	± 0.24	0.21	0.160	~ 0.050			

Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1002KCompact Nut
Shaft dia. $\phi 10$ Lead 2mm**Ct7&Ct10**

Unit:mm

Ball Screw Specifications		
Ball size	$\phi 1.2$	
Number of thread	1	
Thread direction	Right	
Shaft root dia.	$\phi 9.0$	
Number of circuit	1×3	
Material	Shaft	S55C
	Nut	SCM415H
Surface hardness	HRC58~ (Thread area)	
Anti-rust treatment	Anti-rust oil	

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1002K-230R230C7	200	Ct7	230	—	± 0.03	—	0.080	~ 0.020	—	1450	3000
SR1002K-230R230C10	200	Ct10	230	—	± 0.16	—	0.160	~ 0.050			

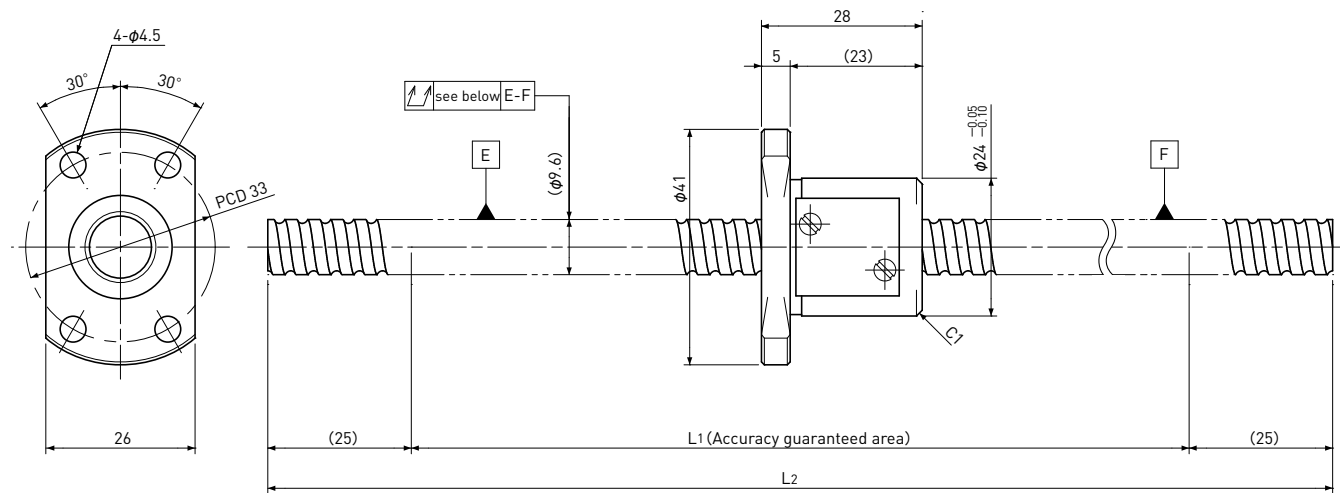
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1004

Shaft dia. $\phi 10$ Lead 4mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 2.0$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 8.2$
Number of circuit	2.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1004-450R450C7	370	Ct7	400	450	± 0.06	0.05	0.120	~ 0.020	—	3000	5200
SR1004-450R450C10	370	Ct10	400	450	± 0.28	0.21	0.240	~ 0.050			

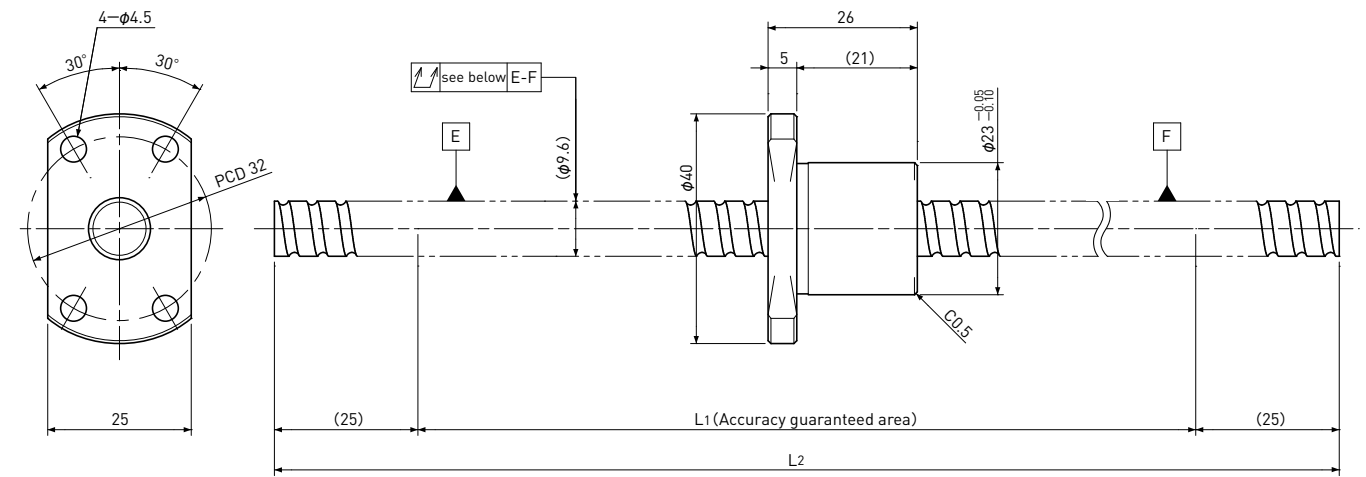
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1005

Shaft dia. $\phi 10$ Lead 5mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 2.0$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 8.2$
Number of circuit	2.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1005-450R450C7	370	Ct7	400	450	± 0.06	0.05	0.120	~ 0.020	—	3000	5200
SR1005-450R450C10	370	Ct10	400	450	± 0.28	0.21	0.240	~ 0.050			

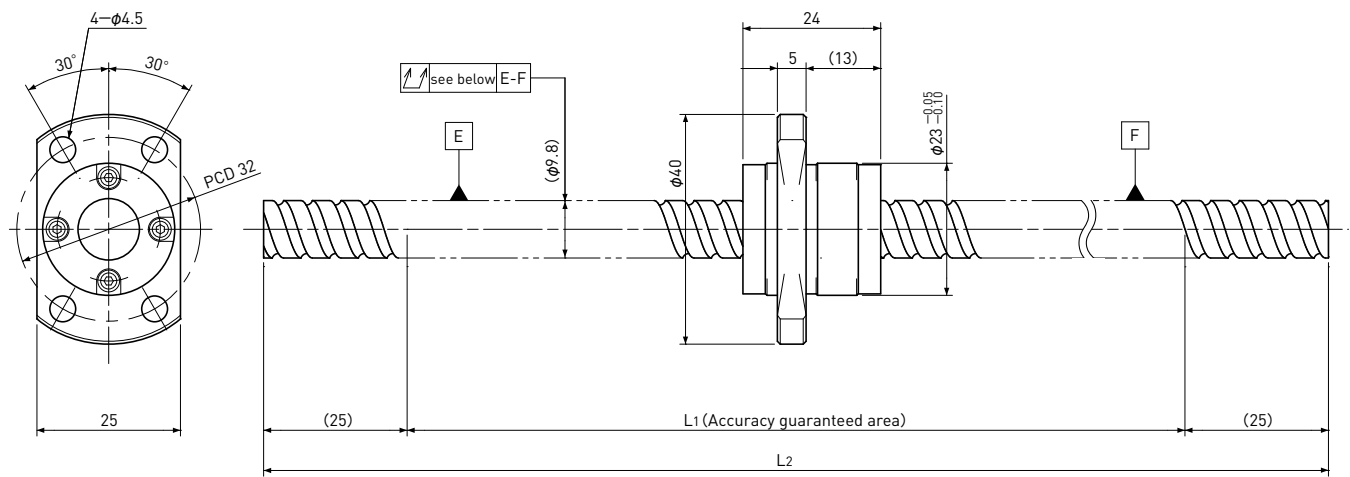
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1010

Shaft dia. $\phi 10$ Lead 10mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 2.0$
Number of thread	2
Thread direction	Right
Shaft root dia.	$\phi 8.4$
Number of circuit	1.6×2
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1010-450R450C7	375	Ct7	400	450	± 0.06	0.05	0.120	~ 0.020	—	3300	5900
SR1010-450R450C10	375	Ct10	400	450	± 0.28	0.21	0.240	~ 0.050			

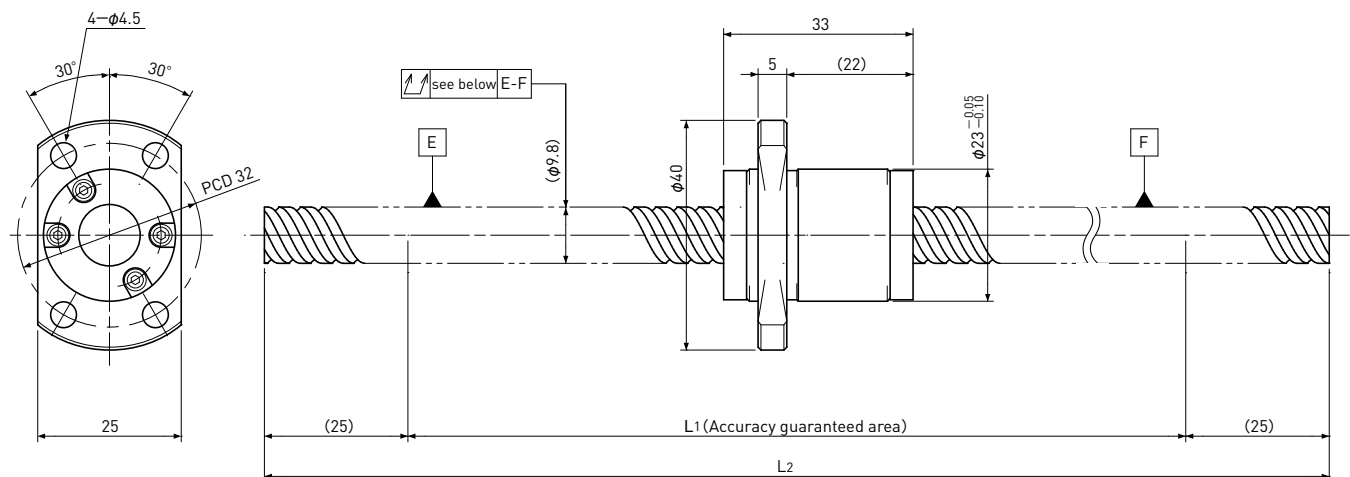
Note)Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1015

Shaft dia. $\phi 10$ Lead 15mm

Ct7&Ct10



Unit:mm

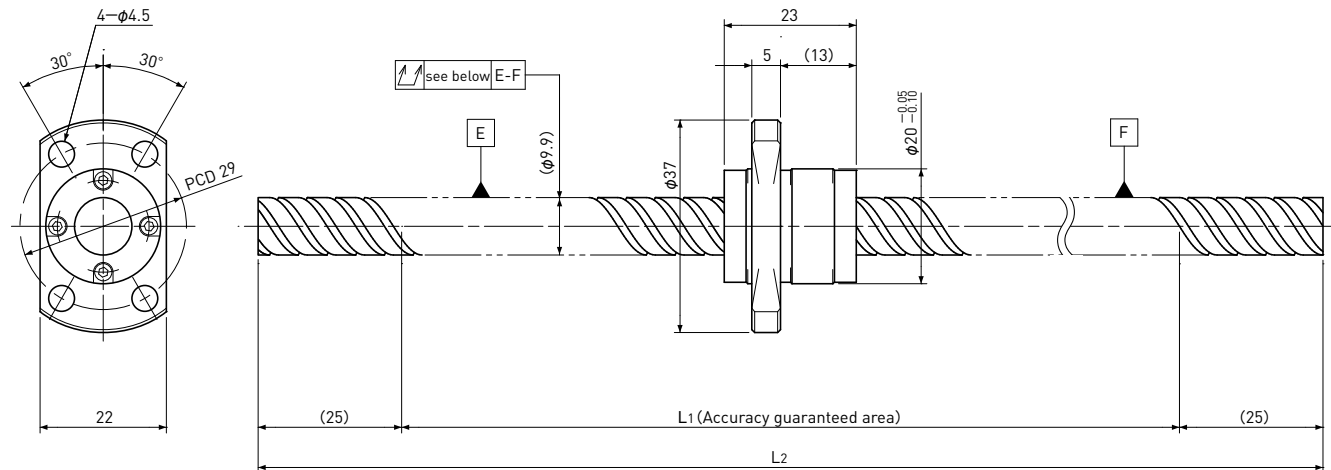
Ball Screw Specifications	
Ball size	$\phi 2.0$
Number of thread	2
Thread direction	Right
Shaft root dia.	$\phi 8.4$
Number of circuit	1.6×2
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1015-450R450C7	365	Ct7	400	450	± 0.06	0.05	0.120	~ 0.020	—	3300	6400
SR1015-450R450C10	365	Ct10	400	450	± 0.28	0.21	0.240	~ 0.050			

Note)Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1020Shaft dia. $\phi 10$ Lead 20mm**Ct7&Ct10**

Unit:mm

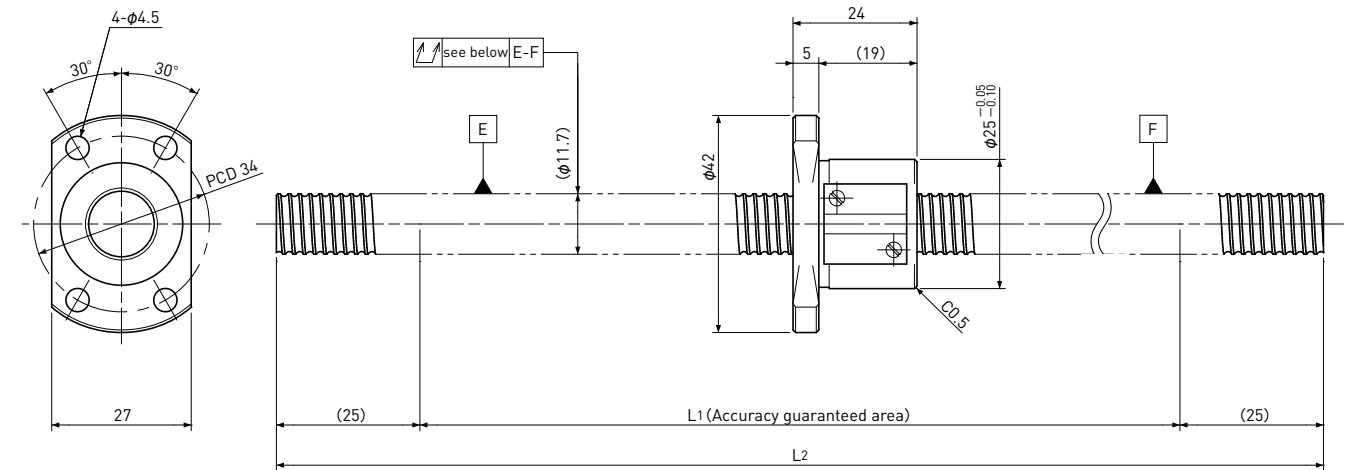
Ball Screw Specifications	
Ball size	$\phi 1.5875$
Number of thread	4
Thread direction	Right
Shaft root dia.	$\phi 8.7$
Number of circuit	0.7×4
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L1	L2	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1020-450R450C7	375	Ct7	400	450	± 0.06	0.05	0.120	~ 0.020	—	2100	4000
SR1020-450R450C10	375	Ct10	400	450	± 0.28	0.21	0.240	~ 0.050			

Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1202Shaft dia. $\phi 12$ Lead 2mm**Ct7&Ct10**

Unit:mm

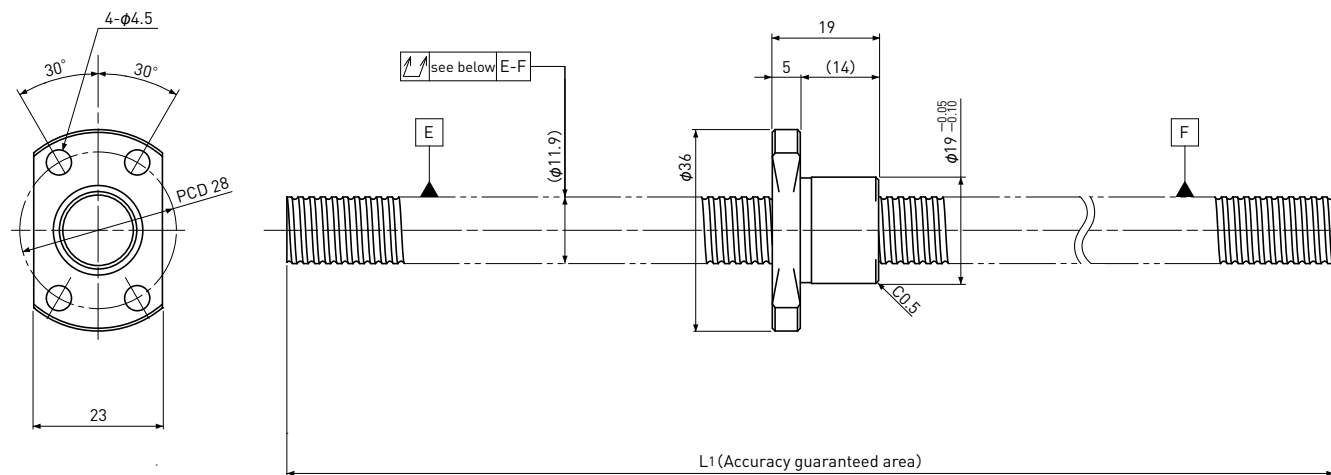
Ball Screw Specifications	
Ball size	$\phi 1.5875$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 10.6$
Number of circuit	3.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L1	L2	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1202-450R450C7	375	Ct7	400	450	± 0.06	0.05	0.080	~ 0.020	—	3000	6400
SR1202-450R450C10	375	Ct10	400	450	± 0.28	0.21	0.160	~ 0.050			

Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1202KCompact Nut
Shaft dia. $\phi 12$ Lead 2mm**Ct7&Ct10**

Unit:mm

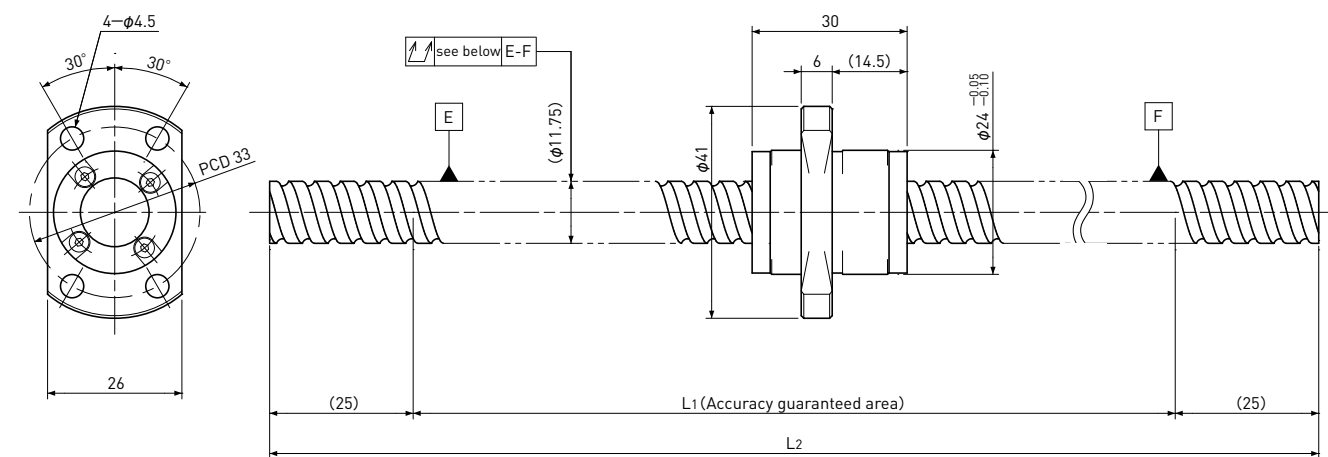
Ball Screw Specifications		
Ball size	$\phi 1.2$	
Number of thread	1	
Thread direction	Right	
Shaft root dia.	$\phi 11.0$	
Number of circuit	1×3	
material	Shaft	S55C
	Nut	SCM415H
Surface hardness	HRC58~ (Thread area)	
Anti-rust treatment	Anti-rust oil	

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1202K-280R280C7	250	Ct7	280	—	± 0.04	—	0.080	~ 0.020	—	1600	3700
SR1202K-280R280C10	250	Ct10	280	—	± 0.19	—	0.160	~ 0.050			

Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1210Shaft dia. $\phi 12$ Lead 10mm**Ct7&Ct10**

Unit:mm

Ball Screw Specifications	
Ball size	$\phi 2.381$
Number of thread	2
Thread direction	Right
Shaft root dia.	$\phi 10.2$
Number of circuit	1.7×2
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1210-450R450C7	370	Ct7	400	450	± 0.06	0.05	0.080	~ 0.020	—	5100	9800
SR1210-450R450C10	370	Ct10	400	450	± 0.28	0.21	0.160	~ 0.050			

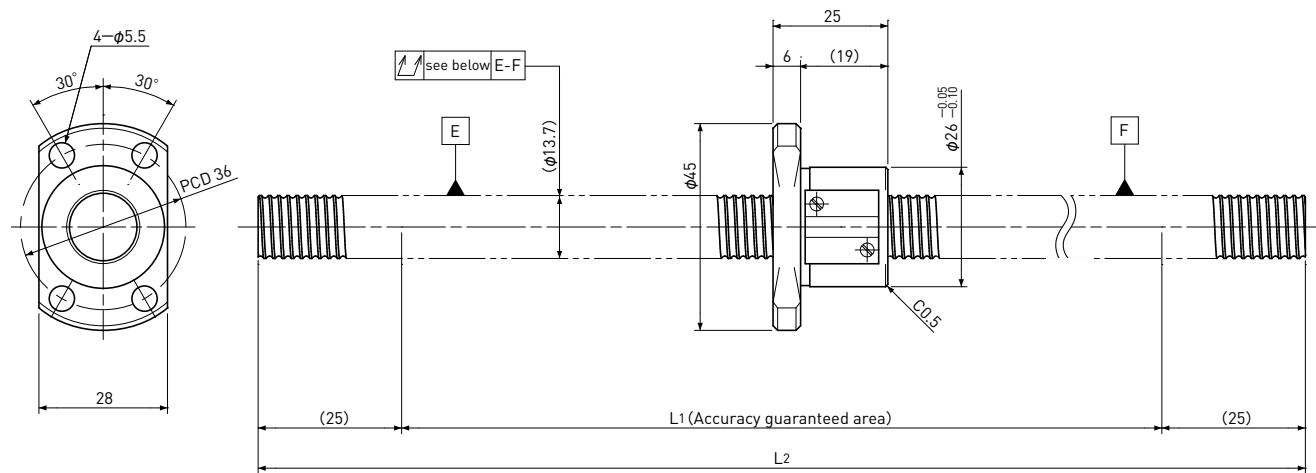
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1402

Shaft dia. $\phi 14$ Lead 2mm

Ct7&Ct10



Unit:mm

Ball Screw Specifications	
Ball size	$\phi 1.5875$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 12.6$
Number of circuit	3.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1402-500R500C7	425	Ct7	450	500	± 0.07	0.05	0.080	~ 0.020	—	3200	7500
SR1402-500R500C10	425	Ct10	450	500	± 0.31	0.21	0.160	~ 0.050			

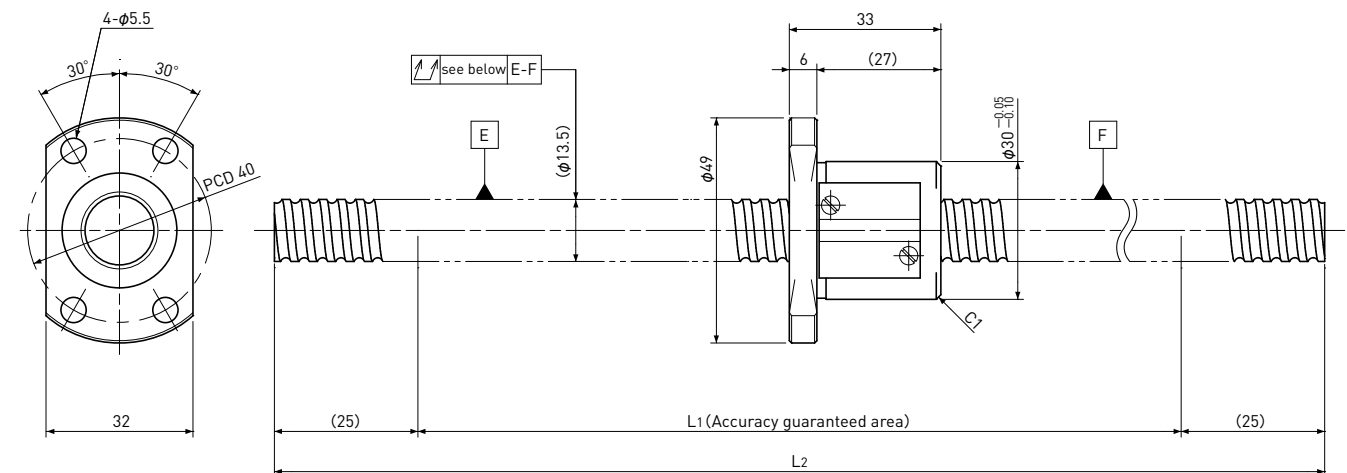
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1404

Shaft dia. $\phi 14$ Lead 4mm

Ct7&Ct10



Unit:mm

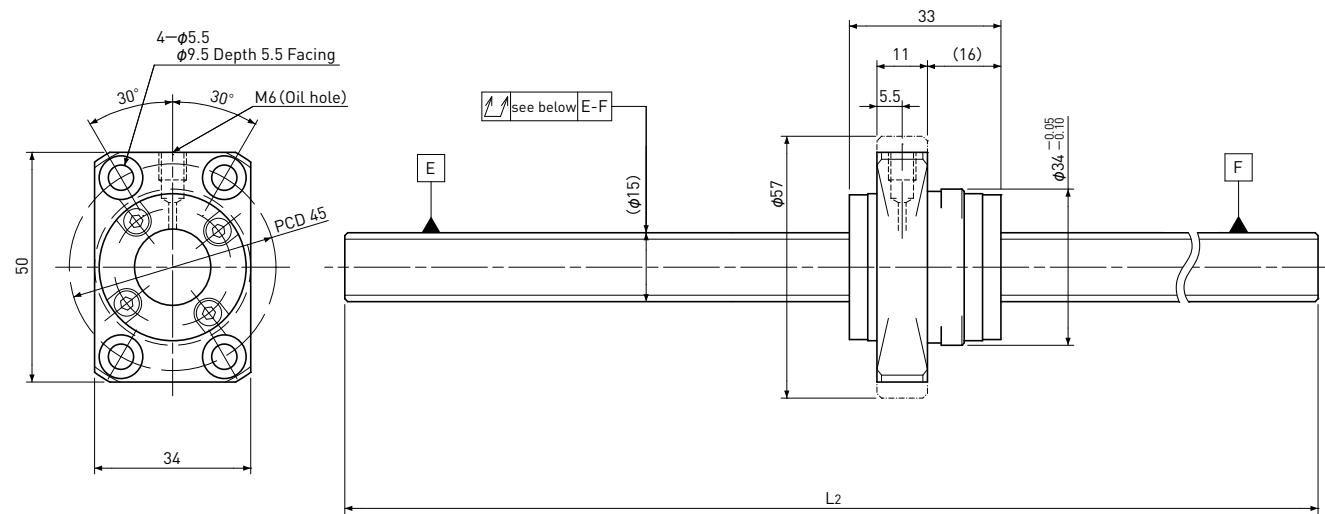
Ball Screw Specifications	
Ball size	$\phi 2.381$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 11.8$
Number of circuit	3.7×1
Shaft, Nut material	SCM415H
Surface hardness	HRC58~62 (Thread area)
Anti-rust treatment	Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1404-500R500C7	415	Ct7	450	500	± 0.07	0.05	0.080	~ 0.020	—	5700	11600
SR1404-500R500C10	415	Ct10	450	500	± 0.31	0.21	0.160	~ 0.050			

Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1505Shaft dia. $\phi 15$ Lead 5mm**Ct10**

Unit:mm

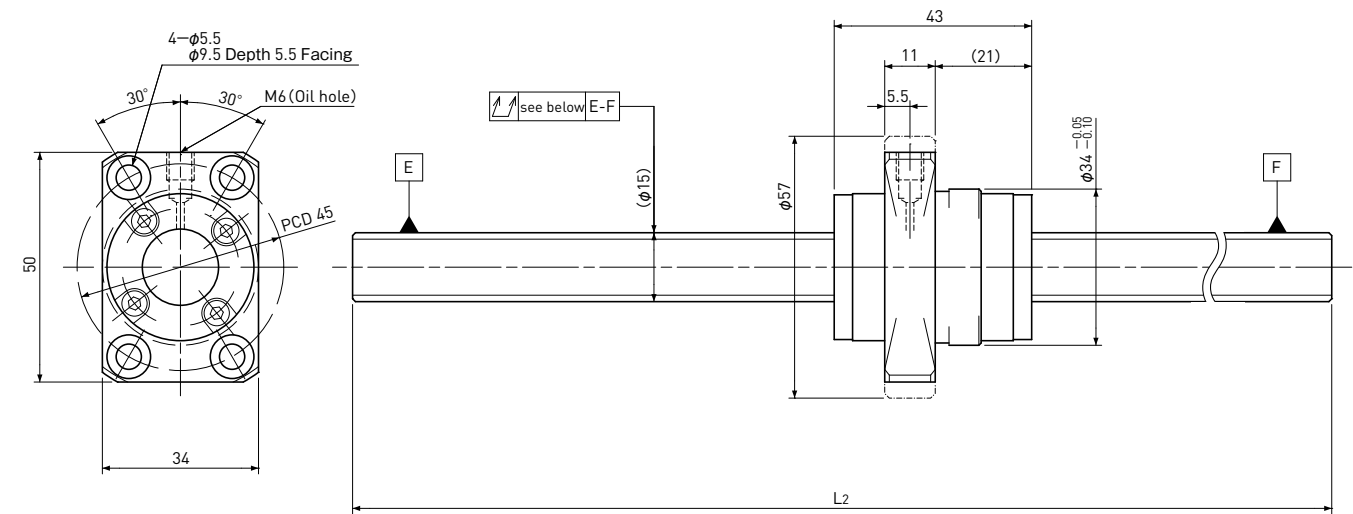
Ball Screw Specifications		
Ball size	$\phi 3.175$	
Number of thread	1	
Thread direction	Right	
Shaft root dia.	$\phi 12.2$	
Number of circuit	3.7×1	
Material	Shaft	SUJ2
	Nut	SCM415
Surface hardness	HRC58~62 (Thread area)	
Anti-rust treatment	Anti-rust oil	

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1505-1000R1000C10	965	Ct10	—	1000	±0.7	0.21	0.400	~0.050	—	8900	17000

Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1510Shaft dia. $\phi 15$ Lead 10mm**Ct10**

Unit:mm

Ball Screw Specifications		
Ball size	$\phi 3.175$	
Number of thread	2	
Thread direction	Right	
Shaft root dia.	$\phi 12.2$	
Number of circuit	2.7×2	
Material	Shaft	SUJ2
	Nut	SCM415
Surface hardness	HRC58~62 (Thread area)	
Anti-rust treatment	Anti-rust oil	

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SR1510-1000R1000C10	955	Ct10	—	1000	±0.7	0.21	0.400	~0.050	—	12000	25000

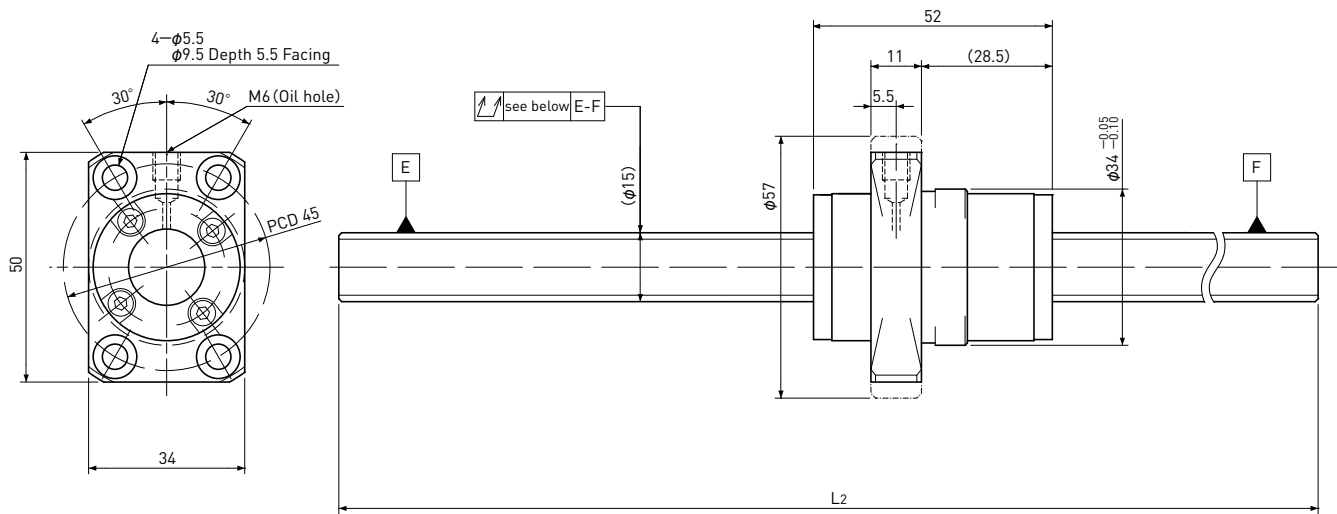
Note) Please designate end-journal profile with your sketch.

Standard products in stock SR series

SR1520

Shaft dia. ϕ 15 Lead 20mm

Ct10



Unit:mm

Ball Screw Specifications		
Ball size		ϕ 3.175
Number of thread		2
Thread direction		Right
Shaft root dia.		ϕ 12.7
Number of circuit		1.7×2
Material	Shaft	SUJ2
	Nut	SCM415
Surface hardness		HRC58~62 (Thread area)
Anti-rust treatment		Anti-rust oil

Unit:mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e _p	Variation V ₃₀₀				Dynamic Ca	Static Coa
SR1520-1000R1000C10	945	Ct10	—	1000	±0.7	0.21	0.400	~0.050	—	8000	16000

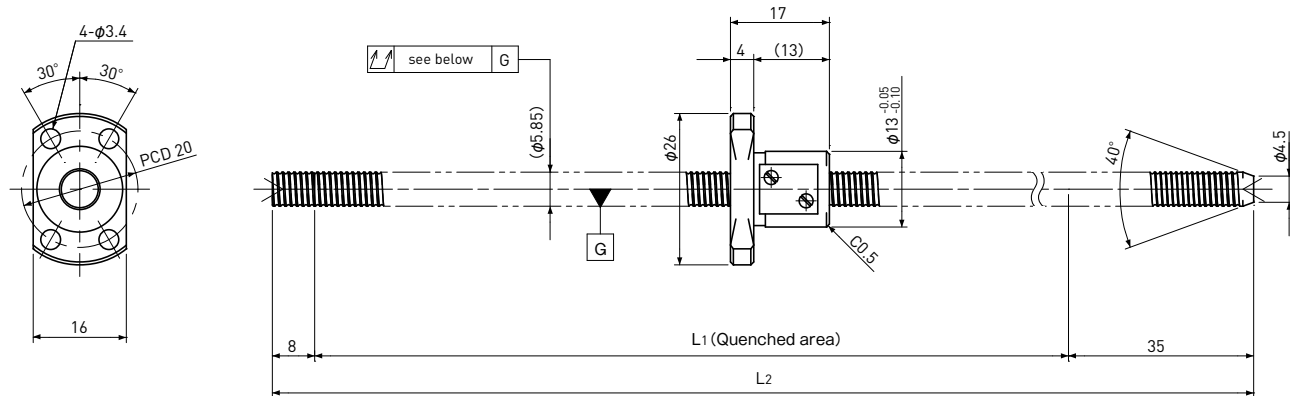
Note)Please designate end-journal profile with your sketch.

Standard products in stock SSR series

SSR0601

Stainless
Shaft dia. $\phi 6$ Lead 1mm

Ct7&Ct10



Unit : mm

Ball Screw Specifications	
Ball size	$\phi 0.8$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 5.3$
Number of circuit	3.7×1
Shaft, Nut material	SUS440C
Surface hardness	HRC55~ (Thread area)
Anti-rust treatment	Anti-rust oil

Unit : mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SSR0601-300C7	240	Ct7	257	300	± 0.04	—	0.120	~ 0.020	—	560	900
SSR0601-300C10	240	Ct10	257	300	± 0.17	—	0.240	~ 0.050			

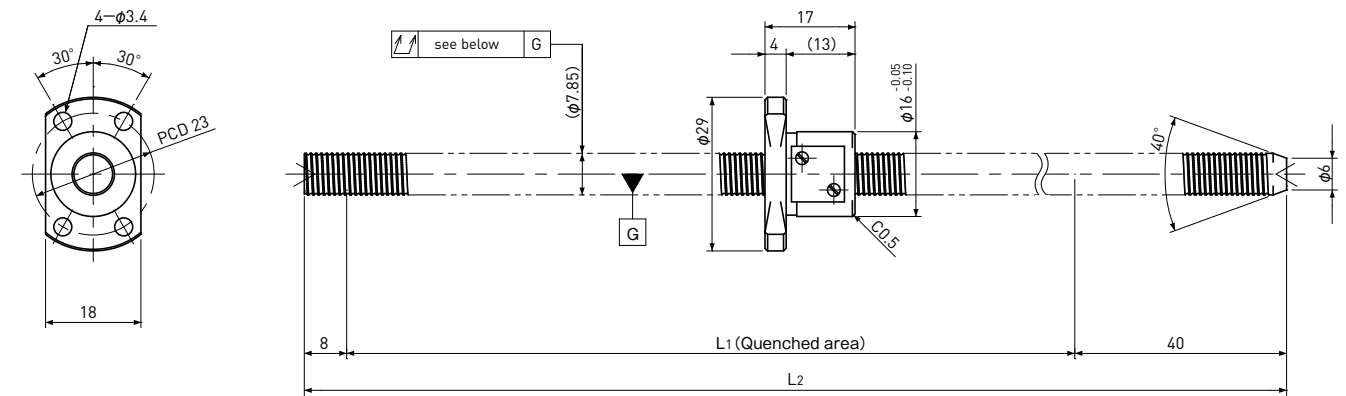
Note) Please designate end-journal profile with your sketch.

Standard products in stock SSR series

SSR0801

Stainless
Shaft dia. $\phi 8$ Lead 1mm

Ct7&Ct10



Unit : mm

Ball Screw Specifications	
Ball size	$\phi 0.8$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 7.3$
Number of circuit	3.7×1
Shaft, Nut material	SUS440C
Surface hardness	HRC55~ (Thread area)
Anti-rust treatment	Anti-rust oil

Unit : mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L ₁	L ₂	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SSR0801-400C7	335	Ct7	352	400	± 0.06	0.05	0.120	~ 0.020	—	630	1250
SSR0801-400C10	335	Ct10	352	400	± 0.24	0.21	0.240	~ 0.050			

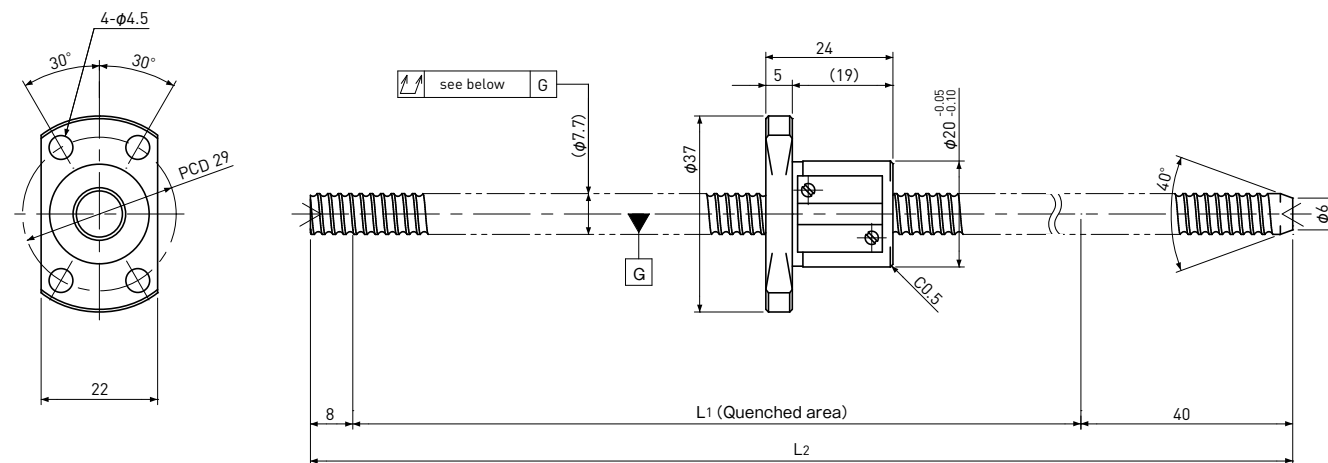
Note) Please designate end-journal profile with your sketch.

Standard products in stock SSR series

SSR0802

Stainless
Shaft dia. $\phi 8$ Lead 2mm

Ct7&Ct10



Unit : mm

Ball Screw Specifications	
Ball size	$\phi 1.5875$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 6.6$
Number of circuit	3.7×1
Shaft, Nut material	SUS440C
Surface hardness	HRC55~ (Thread area)
Anti-rust treatment	Anti-rust oil

Unit : mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L1	L2	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SSR0802-400C7	325	Ct7	352	400	± 0.06	0.05	0.120	~ 0.020	—	1950	3100
SSR0802-400C10	325	Ct10	352	400	± 0.24	0.21	0.240	~ 0.050			

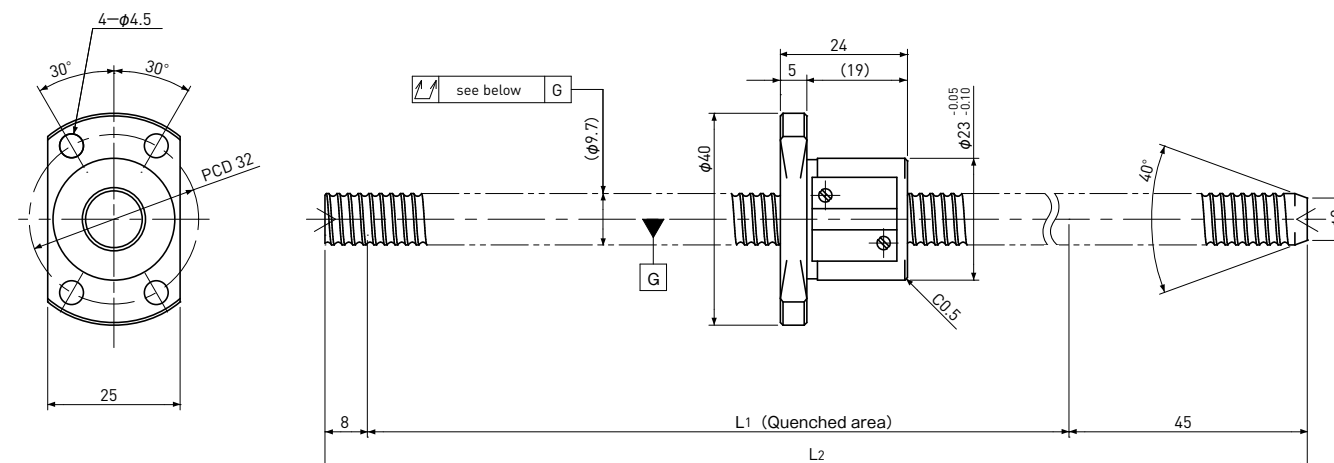
Note) Please designate end-journal profile with your sketch.

Standard products in stock SSR series

SSR1002

Stainless
Shaft dia. $\phi 10$ Lead 2mm

Ct7&Ct10



Unit : mm

Ball Screw Specifications	
Ball size	$\phi 1.5875$
Number of thread	1
Thread direction	Right
Shaft root dia.	$\phi 8.6$
Number of circuit	3.7×1
Shaft, Nut material	SUS440C
Surface hardness	HRC55~ (Thread area)
Anti-rust treatment	Anti-rust oil

Unit : mm

Ball Screw Model	Travel	Grade	Shaft length		Lead accuracy		Total Run-out	Axial play	Preload Torque Nm	Basic Load Rating N	
			L1	L2	Travel deviation e_p	Variation V_{300}				Dynamic Ca	Static Coa
SSR1002-400C7	320	Ct7	347	400	± 0.06	0.05	0.080	~ 0.020	—	2200	4000
SSR1002-400C10	320	Ct10	347	400	± 0.24	0.21	0.160	~ 0.050			

Note) Please designate end-journal profile with your sketch.