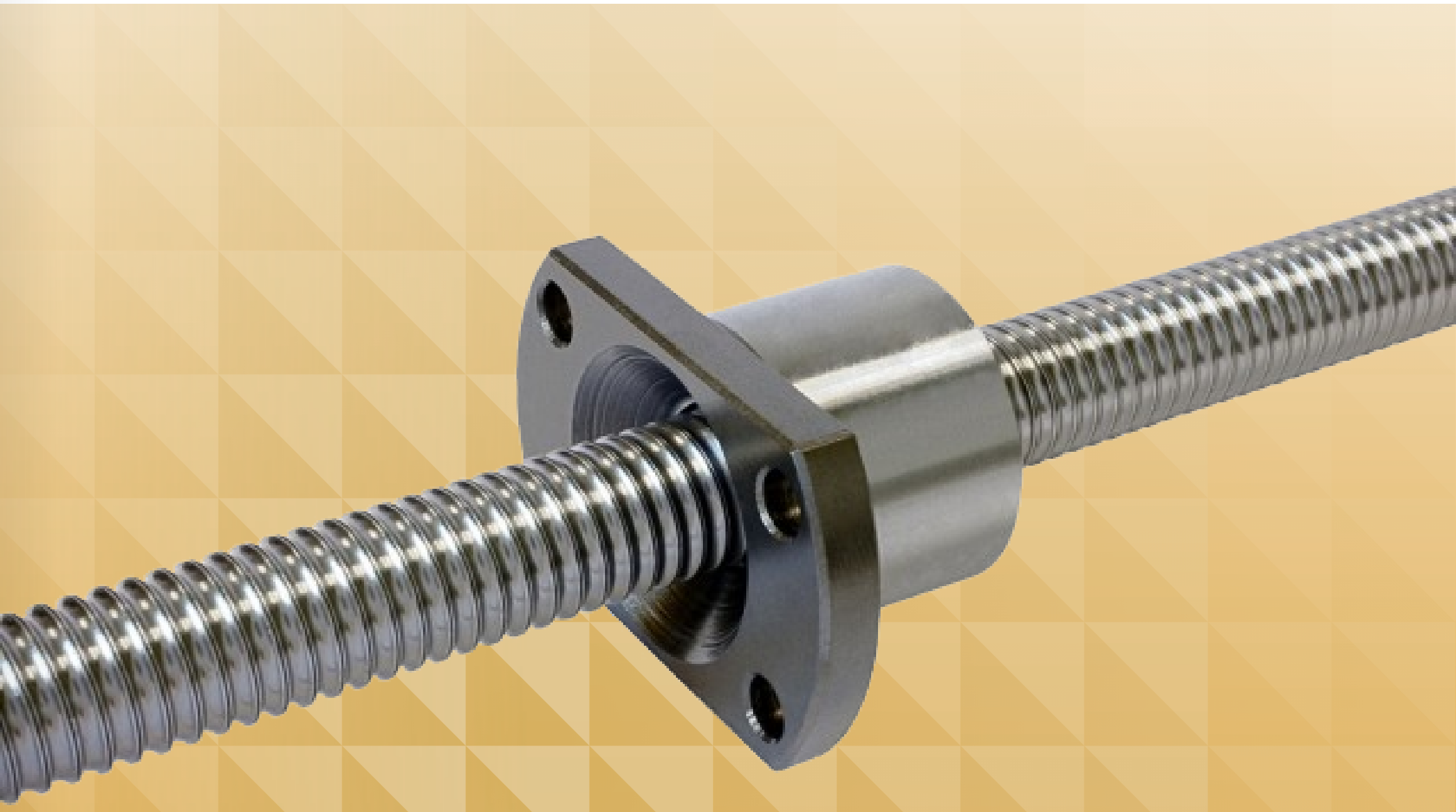
Abssac PSRT Ball Screw



→ PSRT Flanged Nut (High Precision)

Call: 01386 421 005
Email: sales@abssac.co.uk
Web: www.abssac.co.uk

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Precision Rolled Ball Screws (PSRT Series)

High accuracy (JIS C5) has been achieved by Rolled Ball Screw. We provide Rolled Ball Screws with high precision & better cost performance, which can be replaced with conventional Ground Ball Screw with C5 grade.

Features

- The conventional type of Rolled Ball Screws can reach the accuracy grade of Ct10 or Ct7.
  ABSSAC newly developed the high grade accuracy of Rolled Ball Screw, which can achieve JIS C5 grade.
- Fixed side end-journal can be set larger than nominal diameter of Screw Shaft, so there is no need to use Collar by press fit.
- End-journal profile and dimension are standardized, so ABSSAC Compact Support-Unit can be installed.
- Since supported-side end-journal is unfinished, it is possible to do additional end machining with your requested thread length.
- The Axial play is set at 5um or less, but Zero backlash is possible by your request.
- Special end-journal profile can be available as customized order.

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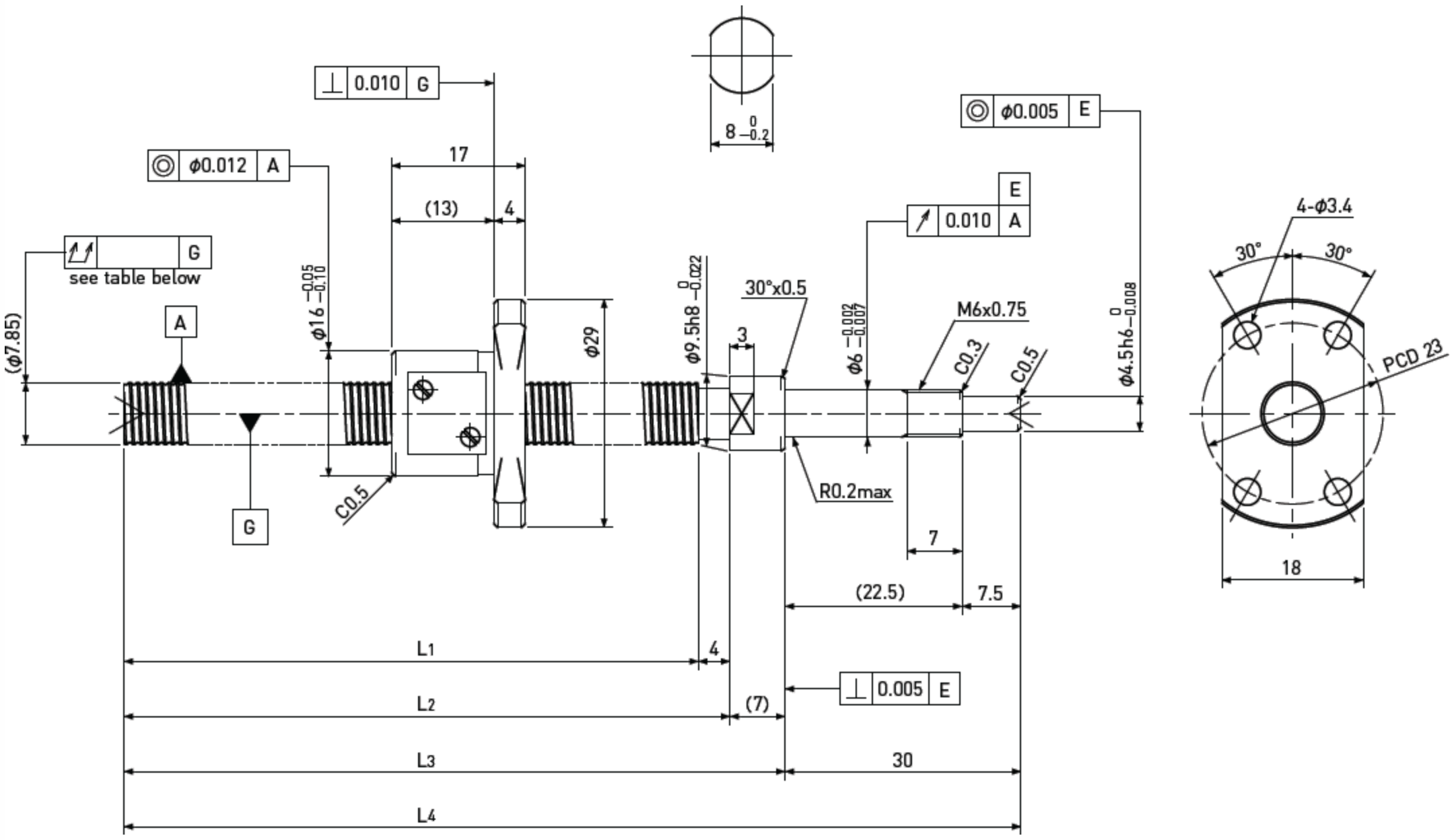
Standard products in stock PSRT series

PSRT0801 | Shaft dia. Ø8 | Lead 1mm | C5

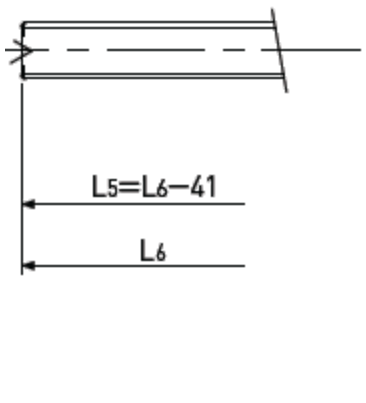


Unit : mm

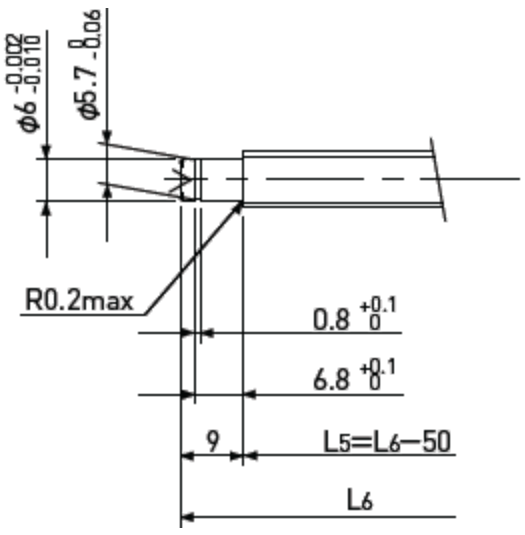
Ball Screw Specifications		
Ball size		ø0.8
Number of thread		1
Thread direction		Right
Shaft root dia.		ø7.3
Number of circuit		3.7×1
Material	Shaft	S55C＋SUS303
	Nut	SCM415H
Surface hardness		HRC58~ (Thread area)
Lubrication		Original Grease MSG No.2

Supported-side end-journal profile

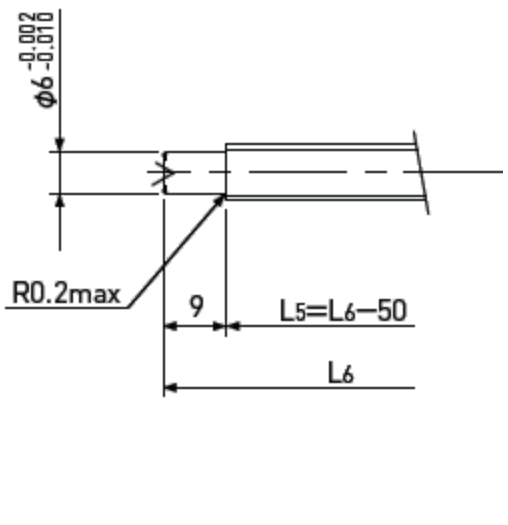
A-type



B-type



C-type



L_5:Thread length after end-journal machining.
L_6:Total length after end-journal machining.

Support-unit Recommendation		
Supported-side:	MSU-6CS/6GS, EF6	
Fixed-side:	MSU-6C/6G, EK6	

Unit : mm

Ball Screw Model	Travel	Shaft length				Travel deviation e_p	Total Run-out //	Axial play	Basic Load Rating N	
		L_1	L_2	L_3	L_4				Dynamic Ca	Static Coa
PSRT0801-119R160C5	90	119	123	130	160	±0.020	0.050	~0.005	780	1650
PSRT0801-169R210C5	140	169	173	180	210	±0.020	0.065			
PSRT0801-269R310C5	240	269	273	280	310	±0.023	0.065			

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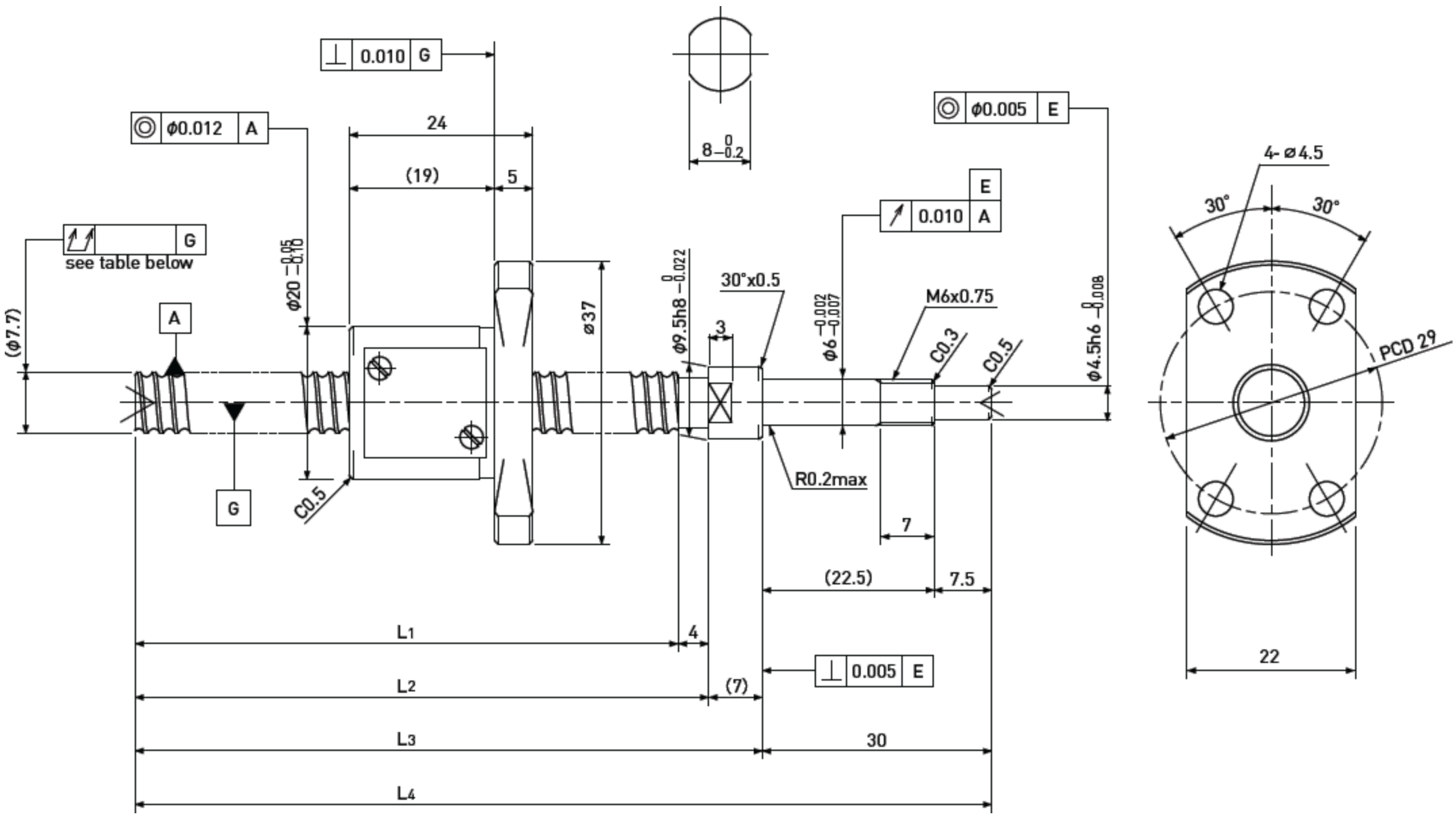
Standard products in stock PSRT series

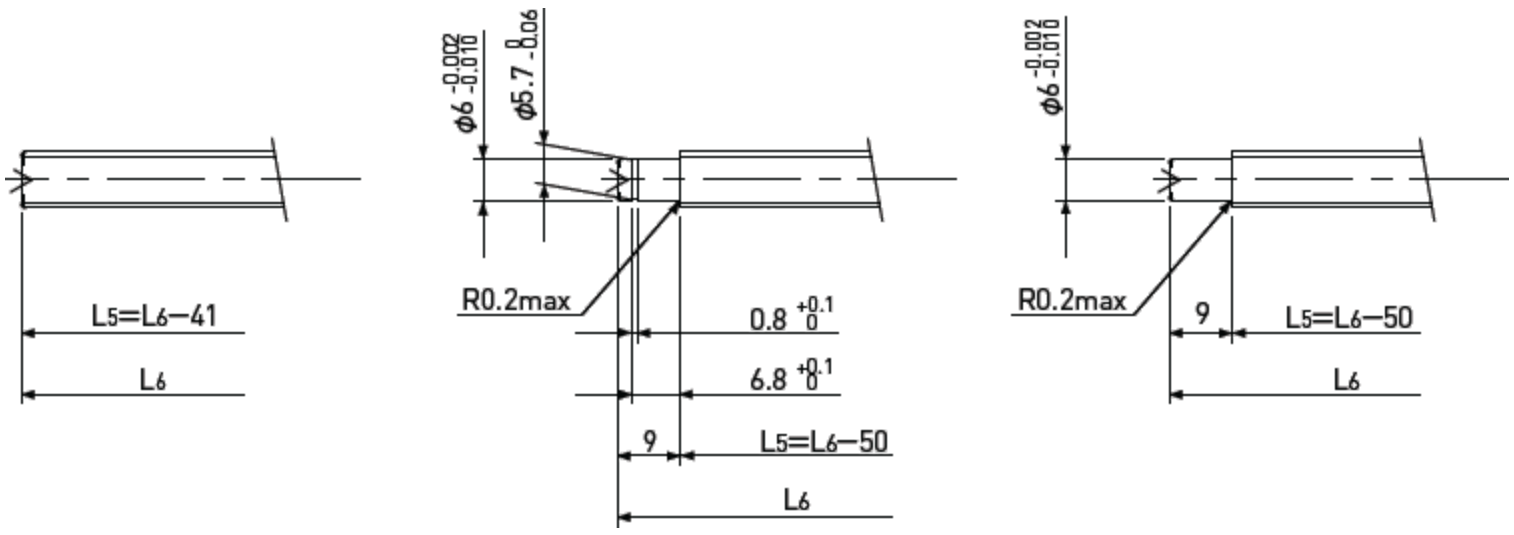
PSRT0802 | Shaft dia. ø8 | Lead 2mm | C5



Unit : mm

Ball Screw Specifications		
Ball size		ø1.5875
Number of thread		1
Thread direction		Right
Shaft root dia.		ø6.6
Number of circuit		3.7×1
Material	Shaft	S55C＋SUS303
	Nut	SCM415H
Surface hardness		HRC58~ (Thread area)
Lubrication		Original Grease MSG No.2

Supported-side end-journal profile



L_5:Thread length after end-journal machining.
L_6:Total length after end-journal machining.

Support-unit Recommendation		
Supported-side:	MSU-6CS/6GS, EF6	
Fixed-side:	MSU-6C/6G, EK6	

Unit : mm

Ball Screw Model	Travel	Shaft length				Travel deviation e_p	Total Run-out //	Axial play	Basic Load Rating N	
		L_1	L_2	L_3	L_4				Dynamic Ca	Static Coa
PSRT0802-119R160C5	80	119	123	130	160	±0.020	0.050	~0.005	2400	4100
PSRT0802-169R210C5	130	169	173	180	210	±0.020	0.065			
PSRT0802-269R310C5	230	269	273	280	310	±0.023	0.065			

Model number notation

Please designate length, end-journal profile, lubricant and Nut direction (in red ink below) according to the Model number notation below.

PSRT	08	01	—	154	R	204	C5	B	0	X
①	②	③		④	⑤	⑥	⑦	⑧	⑨	⑩

① Ball Screws Series No.
② Screw Shaft nominal diameter(mm)
③ Lead(mm)
④ Screw thread length(mm)
(Specify in 1mm unit after end-journal machining)
⑤ Thread direction(R=Right-hand)
⑥ Screw Shaft total length(mm)
(Specify in 1mm unit)
⑦ Accuracy grade(Class JIS C5)
⑧ Shaft supported end profile
(Refer to Fig. 1 below ： A-type,B-type,C-type)
⑨ Anti-rust oil or Lubricant
0 : Grease (MSG No.2)
1 : Anti-rust oi(l Non Ruster PZ2)
2 : Multemp PS2 grease
3 : Other
⑩ Nut Flange direction (Refer to Fig. 2 below)

Fig. 1 : Shaft supported end profile

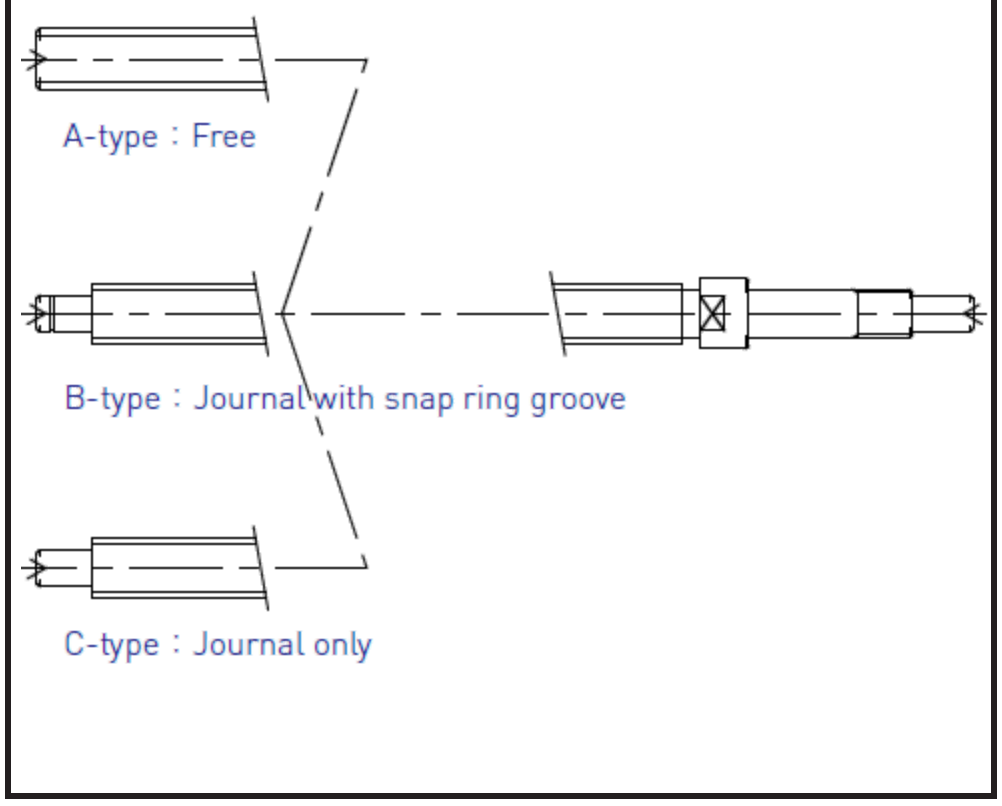
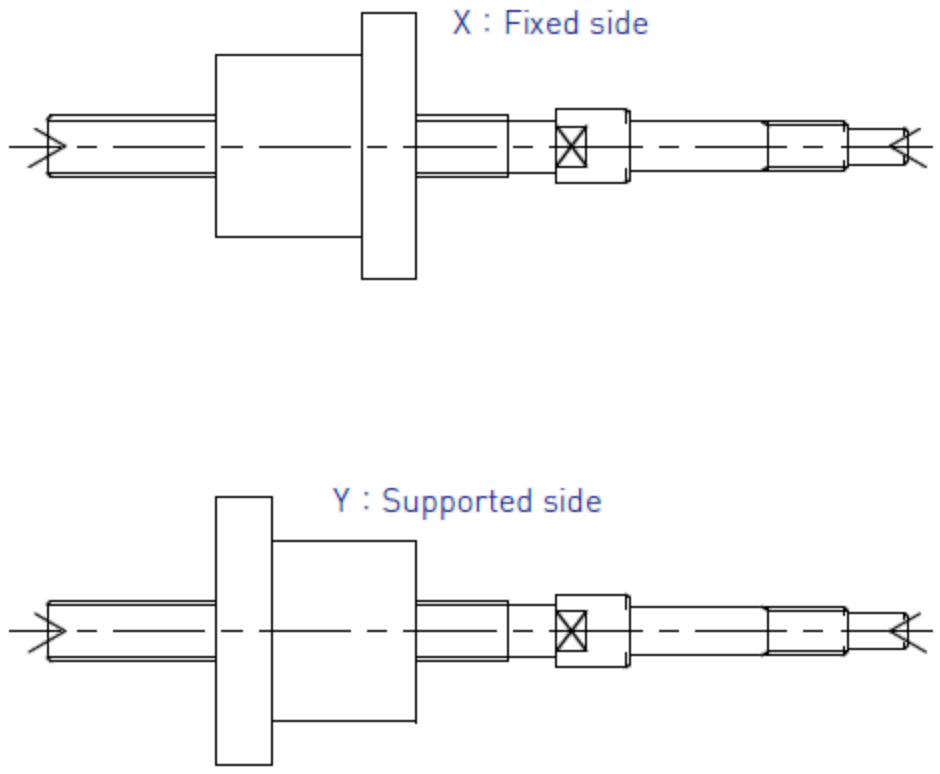


Fig. 2 : Nut Flange direction



Note 1) ABSSAC will not be responsible for quality of goods which were reworked by other than ABSSAC.
Note 2) ABSSAC does not make additional Nut machining.
Note 3) MSG No.2 Grease will be applied in case of no designation of lubricant.

Customized Design
It will be the customized if you need special specifications like below, please ask ABSSAC representative.

1. Non-standard profile or dimension on Shaft end-journal.
2. Non-standard profile or dimension on Ball Nut or Flange.
3. Zero backlash (Pre-loaded) type Ball Screw.
4. Longer length of Ball Screw Shaft than standard product.