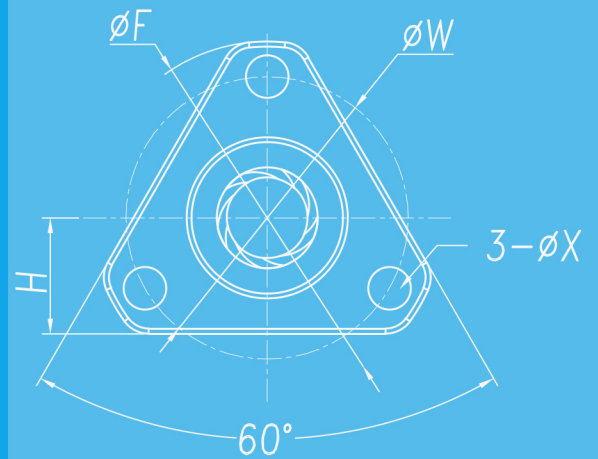
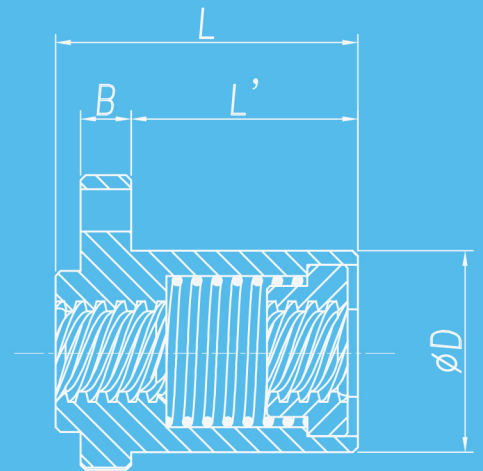


Lead Screw

- Professional manufacturing expert
- Professional technical team
- Professional solutions





Sincerely, for customers to do a good job in each product, to think for customers and to meet the needs of customers as our own responsibility.



Suzhou runwei precision machinery manufacturing co. LTD, with more than 10 years of manufacturing experience in Lead Screw, Provide competitive, safe and reliable products, solutions and services in mechanical automation, and continuously create value for customers.

What we're after

High quality and Specialized technical ability. Rapid and professional solution to customer needs is the first goal we pursue, not just the precision and quality of the product.

Actively promoting innovation

Promote technological innovation to lead the industry. Promote process innovation. Focus on expanding automation and simplifying the process, to shorten the lead time and promote management process innovation. Promote production procedures, systematic management, to create real cost-performance value.

Customer satisfaction

Customer satisfaction is the foundation of a company. From the abundant standard specifications, we can quickly select products that meet customers' requirements. Streamline production, and send them to customers with quality and quantity guaranteed at the first time.

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Other technical parameters

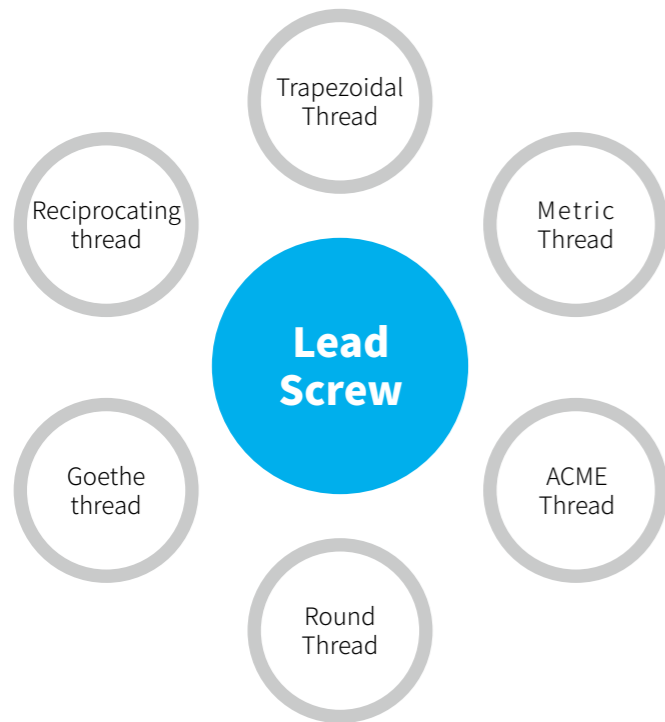
- Gap value
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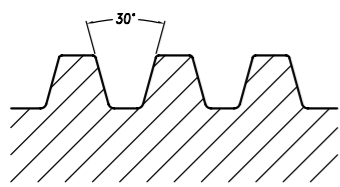
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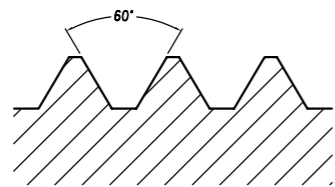
Type of nut



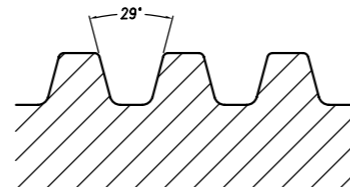
- T ISO Trapezoidal Thread
For transmission and position adjustment, widely used in the mechanical industry.
- M ISO Metric Thread (60°)
The most common form of thread used for fastening and precision transmission.
- A ACME Thread (29°)
English threads can also be used for fastening connections, but not for high accuracy.
- R Round Thread
With the same arc thread as ball screw, the transmission is smoother.
- G Goethe thread
Gothic double arc thread, drawing the advantages of ball screw, is the new products.
- X Reciprocating thread
A screw that makes the slide block reciprocate without changing the rotation direction of the spindle.



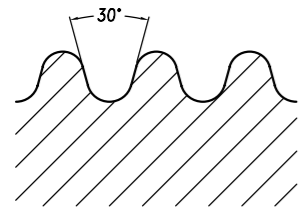
Trapezoidal Thread



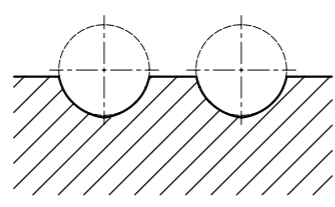
Metric Thread



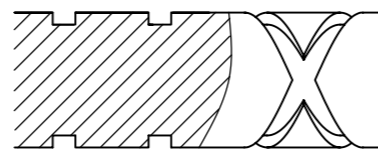
ACME Thread



Round Thread



Goethe thread

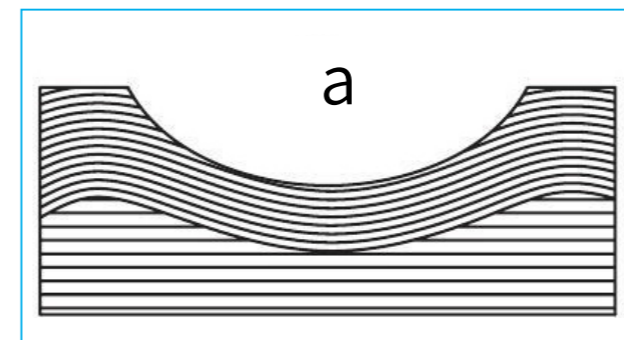


Reciprocating thread

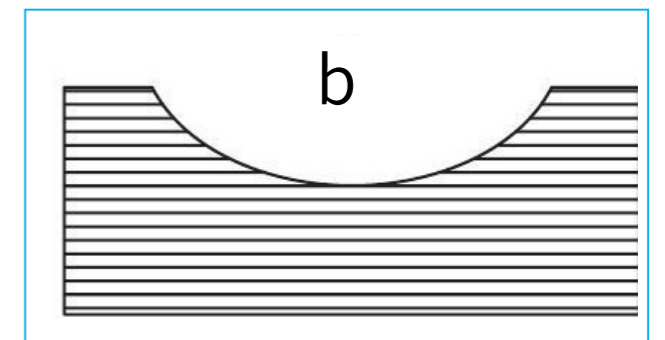
Process and material introduction

process	Regular grade				Precision level
	rolling	turning	whirlwind milling		grinding
precision	6-10 levels	7-10 levels	6-10 levels		5-7 levels
material	SS303,SS304, SS316,S45C, SS440C,40Cr	SS303,SS304, SS316	S45C,SS440C, 40Cr	SS303,SS304, SS316	S45C,SS440C, 40Cr
Heat treatment	-	-	Quenched and tempered	-	Quenched and tempered
Surface treatment	Zinc-plated, nickel plated, hard chromium plated, fluorine coated, tungsten disulfide, black Chrome plated				hard chromium plated, fluorine coated, tungsten disulfide, black Chrome plated
Roughness	0.8-3.2	0.8-3.2	1.6-3.2		0.8-3.2

	S45Cand similar materials	SS304and similar materials	SS440Cand similar materials	GCr15and similar materials	Aluminum alloy and Copper alloy
rolling	○	○	○	×	○
turning	○	○	○	×	○
milling	○	○	○	○	○
grinding	○	○	○	○	×



Rolling process



The milling and turning

The screw produced by rolling process is compact in surface material and has no limitation in length-diameter ratio. It is suitable for processing slender screw, with higher precision than turning process, fast delivery, low cost and good consistency, which can match with all nuts. Turning screw can be more customizable, can meet a variety of needs, suitable for non-standard small batch special processing.

Introduction of Lead Screw

Screw nomenclature

T 40 x 20 (P5) RL - 560 - 710 - S1 - 7e - D2

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

No	On behalf of the name	labelling	meaning	note
①	Thread type code	T	Trapezoidal Thread	
		M	Metric Thread	
		A	ACME Thread	
		R	Round Thread	
		G	Goethe thread	
		X	Reciprocating thread	
②	Nominal diameter	The numerical	diameter	
③	lead	The numerical	lead	
④	pitch	(PThe numerical)	pitch	Single thread is not marked
⑤	direction of Threa	RH	Right hand	Right hand is not marked
		LH	Left hand	
		RL	left hand and Right hand	
⑥	Length of thread	The numeral	Length of thread	
⑦	Length of screw	The numeral	Length of screw	
⑧	Material of screw	S1	304	
		S2	316	
		S3	316L	
		S4	440C	
		A	Aluminum alloy	
		B1	brass	
		B2	Tin bronze	
		B3	Phosphor bronze	
		B4	Aluminum bronze	
		C	40Cr	
/	45#	The default material is 45# steel		
⑨	Precision grade	5、6、7、10	General accuracy grade	
⑩	Final syllable	A-Z	end machining	D refers to the large steps of screw
		1-1000	Anti-repeat mark	Omit no mark

Screw type list

Metric trapezoidal screw common specification table

Nominal Diameter (mm)	Lead (mm)	Pitch (mm)	Starts	tooth height (mm)	d1 (mm)		d2 (mm)		d3 (mm)		Maximum machining diameter	Direction of thread
					max	min	max	min	max	min		
2	0.5	0.5	1	0.27	2.00	1.93	1.69	1.58	1.50	1.30	1.48	LH/RH
3	0.5	0.5	1	0.27	3.00	2.93	2.69	2.57	2.50	2.29	2.48	LH/RH
	1	1	1	0.65	3.00	2.89	2.44	2.28	2.00	1.74	1.85	LH/RH
3.5	3	1	3	0.65	3.00	2.89	2.44	2.24	2.00	1.74	1.85	LH/RH
	0.3	0.3	1	0.16	3.50	3.45	3.30	3.20	3.20	3.02	3.19	LH/RH
	0.61	0.61	1	0.32	3.50	3.42	3.14	3.00	2.89	2.67	2.88	LH/RH
	0.8	0.8	1	0.45	3.50	3.40	3.04	2.89	2.70	2.45	2.65	LH/RH
	1	1	1	0.65	3.50	3.39	2.94	2.78	2.50	2.24	2.35	LH/RH
	2	1	2	0.65	3.50	3.39	2.94	2.76	2.50	2.24	2.35	LH/RH
	1.22	1.22	1	0.76	3.50	3.37	2.83	2.65	2.28	2.00	2.13	LH/RH
4	4	1	4	0.65	3.50	3.39	2.94	2.71	2.50	2.24	2.35	LH/RH
	1	1	1	0.65	4.00	3.89	3.44	3.27	3.00	2.73	2.85	LH/RH
	2	1	2	0.65	4.00	3.89	3.44	3.25	3.00	2.73	2.85	LH/RH
4.5	4	1	4	0.65	4.00	3.89	3.44	3.21	3.00	2.73	2.85	LH/RH
	0.61	0.61	1	0.32	4.50	4.42	4.14	4.00	3.89	3.66	3.88	LH/RH
	0.8	0.8	1	0.45	4.50	4.40	4.04	3.89	3.70	3.45	3.65	LH/RH
5	1	1	1	0.65	4.50	4.39	3.94	3.77	3.50	3.23	3.35	LH/RH
	0.5	0.5	1	0.27	5.00	4.93	4.69	4.57	4.50	4.29	4.48	LH/RH
	1	1	1	0.65	5.00	4.89	4.44	4.27	4.00	3.73	3.85	LH/RH
	2	1	2	0.65	5.00	4.89	4.44	4.25	4.00	3.73	3.85	LH/RH
	4	1	4	0.65	5.00	4.89	4.44	4.20	4.00	3.73	3.85	LH/RH
	5	1.25	4	0.78	5.00	4.87	4.31	4.05	3.75	3.46	3.60	LH/RH
6	10	2.5	4	1.50	5.00	4.79	3.67	3.33	2.50	2.12	2.25	LH/RH
	15	2.5	6	1.30	5.00	4.79	3.67	3.28	2.50	2.12	2.45	LH/RH
	1	1	1	0.65	6.00	5.89	5.44	5.27	5.00	4.72	4.85	LH/RH
	1.5	1.5	1	0.90	6.00	5.85	5.18	4.98	4.50	4.18	4.35	LH/RH
	2	2	1	1.15	6.00	5.82	4.93	4.70	4.00	3.64	3.85	LH/RH
	3	1.5	2	0.90	6.00	5.85	5.18	4.96	4.50	4.18	4.35	LH/RH
	4	2	2	1.25	6.00	5.82	4.93	4.67	4.00	3.64	3.75	LH/RH
	5	2.5	2	1.50	6.00	5.79	4.67	4.39	3.50	3.11	3.25	LH/RH
	6	1.5	4	0.90	6.00	5.85	5.18	4.90	4.50	4.18	4.35	LH/RH
	9	2.25	4	1.38	6.00	5.81	4.80	4.47	3.75	3.38	3.50	LH/RH
	10	2.5	4	1.50	6.00	5.79	4.67	4.32	3.50	3.11	3.25	LH/RH
	12	3	4	2.00	6.00	5.77	4.42	4.04	3.00	2.58	2.50	LH/RH
6.5	3	1.5	2	0.90	6.50	6.35	5.68	5.45	5.00	4.68	4.85	LH/RH
7	3	1.5	2	0.90	7.00	6.85	6.18	5.95	5.50	5.18	4.85	LH/RH

The above data are theoretical data, subject to the specific physical size.
If there is any value beyond the table model, please contact the business personnel.

Screw type list

Nominal Diameter (mm)	Lead (mm)	Pitch (mm)	Starts	tooth height (mm)	d1 (mm)		d2 (mm)		d3 (mm)		Maximum machining diameter	Direction of thread
					max	min	max	min	max	min		
8	1	1	1	0.65	8.00	7.89	7.44	7.26	7.00	6.72	6.85	LH/RH
	1.5	1.5	1	0.90	8.00	7.85	7.18	6.97	6.50	6.17	6.35	LH/RH
	2	2	1	1.25	8.00	7.82	6.93	6.69	6.00	5.64	5.75	LH/RH
	3	1.5	2	0.90	8.00	7.85	7.18	6.95	6.50	6.17	6.35	LH/RH
	4	2	2	1.25	8.00	7.82	6.93	6.67	6.00	5.64	5.75	LH/RH
	6	1.5	4	0.90	8.00	7.85	7.18	6.89	6.50	6.17	6.35	LH/RH
	8	2	4	1.25	8.00	7.82	6.93	6.60	6.00	5.64	5.75	LH/RH
	10	2.5	4	1.50	8.00	7.79	6.67	6.31	5.50	5.10	5.25	LH/RH
	12	3	4	1.75	8.00	7.77	6.42	6.03	5.00	4.57	4.75	LH/RH
	14	2	7	1.25	8.00	7.82	6.93	6.55	6.00	5.64	5.75	LH/RH
	15	2.5	6	1.50	8.00	7.79	6.67	6.26	5.50	5.10	5.25	LH/RH
	16	2	8	1.25	8.00	7.82	6.93	6.55	6.00	5.64	5.75	LH/RH
	20	2.5	8	1.50	8.00	7.79	6.67	6.26	5.50	5.10	5.25	LH/RH
	30	1.25	24	0.78	8.00	7.87	7.31	7.00	6.75	6.44	6.60	LH/RH
9	4.5	1.5	3	0.90	9.00	8.85	8.18	7.92	7.50	7.17	7.35	LH/RH
	17.5	2.5	7	1.50	9.00	8.79	7.67	7.26	6.50	6.10	6.25	LH/RH
10	1	1	1	0.65	10.00	9.89	9.44	9.26	9.00	8.71	8.85	LH/RH
	1.5	1.5	1	0.90	10.00	9.85	9.18	8.97	8.50	8.17	8.35	LH/RH
	2	2	1	1.25	10.00	9.82	8.93	8.69	8.00	7.63	7.75	LH/RH
	3	3	1	1.75	10.00	9.77	8.42	8.14	7.00	6.57	6.75	LH/RH
	3	1.5	2	0.90	10.00	9.85	9.18	8.94	8.50	8.17	8.35	LH/RH
	4	2	2	1.25	10.00	9.82	8.93	8.66	8.00	7.63	7.75	LH/RH
	5	2.5	2	1.50	10.00	9.79	8.67	8.38	7.50	7.10	7.25	LH/RH
	6	2	3	1.25	10.00	9.82	8.93	8.63	8.00	7.63	7.75	LH/RH
	8	2	4	1.25	10.00	9.82	8.93	8.59	8.00	7.63	7.75	LH/RH
	10	2.5	4	1.50	10.00	9.79	8.67	8.31	7.50	7.10	7.25	LH/RH
	10	2	5	1.25	10.00	9.82	8.93	8.55	8.00	7.63	7.75	LH/RH
	12	3	4	1.75	10.00	9.87	8.42	8.02	7.00	6.57	6.75	LH/RH
	14	2	7	1.25	10.00	9.82	8.93	8.55	8.00	7.63	7.75	LH/RH
	15	3	5	1.75	10.00	9.77	8.42	7.97	7.00	6.57	6.75	LH/RH
	16	2	8	1.25	10.00	9.82	8.93	8.55	8.00	7.63	7.75	LH/RH
	20	3.33	6	1.90	10.00	9.75	8.25	7.78	6.67	6.22	6.42	LH/RH
	25	5	5	1.50	10.00	9.67	7.39	6.84	5.00	4.46	4.75	LH/RH
	35	1.25	28	0.78	10.00	9.87	9.31	8.99	8.75	8.44	8.60	LH/RH

The above data are theoretical data, subject to the specific physical size.
If there is any value beyond the table model, please contact the business personnel.

Screw type list

Nominal Diameter (mm)	Lead (mm)	Pitch (mm)	Starts	tooth height (mm)	d1 (mm)		d2 (mm)		d3 (mm)		Maximum machining diameter	Direction of thread	
					max	min	max	min	max	min			
12	2	2	1	1.25	12.00	11.82	10.93	10.68	10.00	9.62	9.75	LH/RH	
	2.5	2.5	1	1.50	12.00	11.79	10.67	10.41	9.50	9.09	9.25	LH/RH	
	3	3	1	1.75	12.00	11.77	10.42	10.13	9.00	8.56	8.75	LH/RH	
	4	2	2	1.25	12.00	11.82	10.93	10.66	10.00	9.62	9.75	LH/RH	
	5	2.5	2	1.50	12.00	11.79	10.67	10.37	9.50	9.09	9.25	LH/RH	
	6	3	2	1.75	12.00	11.77	10.42	10.10	9.00	8.56	8.75	LH/RH	
	8	2	4	1.25	12.00	11.82	10.93	10.59	10.00	9.62	9.75	LH/RH	
	9	3	3	1.75	12.00	11.77	10.42	10.06	9.00	8.56	8.75	LH/RH	
	10	2.5	4	1.50	12.00	11.79	10.67	10.30	9.50	9.09	9.25	LH/RH	
	12	2	6	1.25	12.00	11.82	10.93	10.54	10.00	9.63	9.75	LH/RH	
	15	3	5	1.75	12.00	11.77	10.42	9.96	9.00	8.56	8.75	LH/RH	
	15	2.5	6	1.50	12.00	11.79	10.67	10.25	9.50	9.09	9.25	LH/RH	
	16	3.2	5	1.85	12.00	11.76	10.32	9.85	8.80	8.35	8.55	LH/RH	
	18	3	6	1.75	12.00	11.77	10.42	9.96	9.00	8.56	8.75	LH/RH	
	21	4.2	5	2.35	12.00	11.69	9.80	9.28	7.80	7.29	7.55	LH/RH	
	24	4	6	2.25	12.00	11.72	9.91	9.39	8.00	7.50	7.75	LH/RH	
	14	2	2	1	1.25	14.00	13.82	12.93	12.68	12.00	11.62	11.75	LH/RH
		3	3	1	1.75	14.00	13.77	12.42	12.13	11.00	10.55	10.75	LH/RH
4		4	1	2.25	14.00	13.72	11.91	11.58	10.00	9.50	9.75	LH/RH	
6		3	2	1.75	14.00	13.77	12.42	12.09	11.00	10.55	10.75	LH/RH	
8		4	2	2.25	14.00	13.72	11.91	11.54	10.00	9.50	9.75	LH/RH	
10		2.5	4	1.50	14.00	13.79	12.67	12.29	11.50	11.08	11.25	LH/RH	
12		4	3	2.25	14.00	13.72	11.91	11.50	10.00	9.50	9.75	LH/RH	
16		4	4	2.25	14.00	13.72	11.91	11.86	10.00	9.50	9.75	LH/RH	
18		3	6	1.75	14.00	13.77	12.42	11.95	11.00	10.55	10.75	LH/RH	
28		4	7	2.25	14.00	13.72	11.91	11.38	10.00	9.50	9.75	LH/RH	
30		5	6	2.75	14.00	13.67	11.39	10.82	9.00	8.45	8.75	LH/RH	
16		2	2	1	1.25	16.00	15.82	14.93	14.68	14.00	13.61	13.75	LH/RH
	3	3	1	1.75	16.00	15.77	14.42	14.12	13.00	12.55	12.75	LH/RH	
	4	4	1	2.25	16.00	15.72	13.91	13.57	12.00	11.49	11.75	LH/RH	
	5	2.5	2	1.50	16.00	15.79	14.67	14.37	13.50	13.08	13.25	LH/RH	
	8	4	2	2.25	16.00	15.72	13.91	13.53	12.00	11.49	11.75	LH/RH	
	9	4.5	2	2.50	16.00	15.69	13.65	13.26	11.50	10.97	11.25	LH/RH	
	10	2	5	1.25	16.00	15.82	14.93	14.53	14.00	13.62	13.75	LH/RH	

The above data are theoretical data, subject to the specific physical size.
If there is any value beyond the table model, please contact the business personnel.

Screw type list

Nominal Diameter (mm)	Lead (mm)	Pitch (mm)	Starts	tooth height (mm)	d1 (mm)		d2 (mm)		d3 (mm)		Maximum machining diameter	Direction of thread
					max	min	max	min	max	min		
16	16	4	4	2.25	16.00	15.72	13.91	13.44	12.00	11.49	11.75	LH/RH
	21	3	7	1.75	16.00	15.77	14.42	13.95	13.00	12.55	12.75	LH/RH
	25	5	5	2.25	16.00	15.67	13.39	12.82	11.00	10.44	11.25	LH/RH
	35	5	7	2.75	16.00	15.67	13.39	12.82	11.00	10.44	10.75	LH/RH
18	2	2	1	1.25	18.00	17.82	16.93	16.67	16.00	15.61	15.75	LH/RH
	4	4	1	2.25	18.00	17.72	15.91	15.57	14.00	13.49	13.75	LH/RH
	8	4	2	2.25	18.00	17.72	15.91	15.53	14.00	13.49	13.75	LH/RH
	16	4	4	2.25	18.00	17.72	15.91	15.44	14.00	13.49	13.75	LH/RH
	18	4.5	4	2.50	18.00	17.69	15.65	15.16	13.50	12.96	13.25	LH/RH
	24	3	8	1.75	18.00	17.77	16.42	15.94	15.00	14.54	14.75	LH/RH
	25	2.5	10	1.50	18.00	17.79	16.67	16.23	15.50	15.08	15.25	LH/RH
	40	5	8	2.75	18.00	17.67	15.39	14.81	13.00	12.44	12.75	LH/RH
60	5	12	2.75	18.00	17.67	15.39	14.81	13.00	12.44	12.75	LH/RH	
20	2	2	1	1.25	20.00	19.82	18.93	18.67	18.00	17.61	17.35	LH/RH
	4	4	1	2.25	20.00	19.72	17.91	17.57	16.00	15.48	15.75	LH/RH
	8	4	2	2.25	20.00	19.72	17.91	17.53	16.00	15.48	15.75	LH/RH
	10	5	2	2.75	20.00	19.67	17.39	16.98	15.00	14.43	14.75	LH/RH
	12	3	4	1.75	20.00	19.77	18.42	18.00	17.00	16.54	16.75	LH/RH
	16	4	4	2.25	20.00	19.72	17.91	17.43	16.00	15.48	15.75	LH/RH
	17.5	2.5	7	1.50	20.00	19.79	18.67	18.22	17.50	17.07	17.25	LH/RH
	18	6	3	3.50	20.00	19.63	16.88	16.39	14.00	13.39	13.50	LH/RH
	20	4	5	2.25	20.00	19.72	17.91	17.36	16.00	15.48	15.75	LH/RH
	40	5	8	2.75	20.00	19.67	17.39	16.80	15.00	14.43	14.75	LH/RH
	45	5	9	2.75	20.00	19.67	17.39	16.80	15.00	14.43	14.75	LH/RH
	80	5	16	2.75	20.00	19.67	17.39	16.80	15.00	14.43	14.75	LH/RH
	22	3	3	1	1.75	22.00	21.77	20.42	20.11	19.00	18.54	18.75
4		4	1	2.25	22.00	21.72	19.91	19.56	18.00	17.48	17.75	LH/RH
5		5	1	2.75	22.00	21.67	19.39	19.02	17.00	16.43	16.75	LH/RH
6		2	3	1.25	22.00	21.82	20.93	20.60	20.00	19.60	19.75	LH/RH
8		4	2	2.25	22.00	21.72	19.91	19.52	18.00	17.48	17.75	LH/RH
10		5	2	2.75	22.00	21.67	19.39	18.98	17.00	16.43	16.75	LH/RH
10		2.5	4	1.50	22.00	21.79	20.67	20.28	19.50	19.07	19.25	LH/RH
16		4	4	2.25	22.00	21.72	19.91	19.43	18.00	17.48	17.75	LH/RH
18		3	6	1.75	22.00	21.77	20.42	19.93	19.00	18.54	18.75	LH/RH
20		4	5	2.25	22.00	21.72	19.91	19.36	18.00	17.48	17.75	LH/RH
24		4	6	2.25	22.00	21.72	19.91	19.36	18.00	17.48	17.75	LH/RH

The above data are theoretical data, subject to the specific physical size.
If there is any value beyond the table model, please contact the business personnel.

Screw type list

Nominal Diameter (mm)	Lead (mm)	Pitch (mm)	Starts	tooth height (mm)	d1 (mm)		d2 (mm)		d3 (mm)		Maximum machining diameter	Direction of thread	
					max	min	max	min	max	min			
22	50	5	10	2.75	22.00	21.67	19.39	18.80	17.00	16.43	16.75	LH/RH	
24	3	3	1	1.75	24.00	23.77	22.42	22.11	21.00	20.53	20.75	LH/RH	
	4	4	1	2.25	24.00	23.72	21.91	21.56	20.00	19.48	19.75	LH/RH	
	5	5	1	2.75	24.00	23.67	21.39	21.02	19.00	18.42	18.75	LH/RH	
	10	5	2	2.75	24.00	23.67	21.39	20.97	19.00	18.42	18.75	LH/RH	
	40	5	8	2.75	24.00	23.67	21.39	20.79	19.00	18.42	18.75	LH/RH	
25	55	5	11	2.75	24.00	23.67	21.39	20.79	19.00	18.42	18.75	LH/RH	
	5	5	1	2.75	25.00	24.67	22.39	22.02	20.00	19.42	19.75	LH/RH	
	10	5	2	2.75	25.00	24.67	22.39	21.97	20.00	19.42	19.75	LH/RH	
	12	6	2	3.50	25.00	24.63	21.88	21.43	19.00	18.38	18.50	LH/RH	
	20	4	5	2.25	25.00	24.72	22.91	22.35	21.00	20.47	20.75	LH/RH	
	25	5	5	2.75	25.00	24.67	22.39	21.79	20.00	19.42	19.75	LH/RH	
	60	5	12	2.75	25.00	24.67	22.39	21.79	20.00	19.42	19.75	LH/RH	
	3	3	1	1.75	26.00	25.77	24.42	24.11	23.00	22.53	22.75	LH/RH	
26	5	5	1	2.75	26.00	25.67	23.39	23.01	21.00	20.42	20.75	LH/RH	
	8	8	1	4.50	26.00	25.55	21.87	21.41	18.00	17.29	17.50	LH/RH	
	8	4	2	2.25	26.00	25.72	23.91	23.52	22.00	21.47	21.75	LH/RH	
	10	5	2	2.75	26.00	25.67	23.39	22.97	21.00	20.42	20.75	LH/RH	
	12	3	4	1.75	26.00	25.77	24.42	23.98	23.00	22.53	22.75	LH/RH	
	12	4	3	2.25	26.00	25.72	23.91	23.47	22.00	21.47	21.75	LH/RH	
	16	4	4	2.25	26.00	25.72	23.91	23.42	22.00	21.47	21.75	LH/RH	
	20	4	5	2.25	26.00	25.72	23.91	23.35	22.00	21.47	21.75	LH/RH	
	24	4	6	2.25	26.00	25.72	23.91	23.35	22.00	21.47	21.75	LH/RH	
	50	5	10	2.75	26.00	25.67	23.39	22.79	21.00	20.42	20.75	LH/RH	
	60	5	12	2.75	26.00	25.67	23.39	22.79	21.00	20.42	20.75	LH/RH	
	75	5	15	2.75	26.00	25.67	23.39	22.79	21.00	20.42	20.75	LH/RH	
	28	3	3	1	1.75	28.00	27.77	26.42	26.11	25.00	24.53	24.75	LH/RH
		5	5	1	2.75	28.00	27.67	25.39	25.01	23.00	22.42	22.75	LH/RH
		8	8	1	4.50	28.00	27.55	23.87	23.40	20.00	19.28	19.50	LH/RH
10		5	2	2.75	28.00	27.67	25.39	24.97	23.00	22.42	22.75	LH/RH	

The above data are theoretical data, subject to the specific physical size.
If there is any value beyond the table model, please contact the business personnel.

Screw type list

Specification table for metric triangular screw thread

lead diameter	0.25	0.35	0.4	0.45	0.5	0.7	0.75	0.8	1.0	1.25	1.5	2.0
2	◎		○									
2.5		◎		○								
3		◎			○							
4					◎	○						
5					◎			○				
6					◎		◎		○			
7					◎		◎		○			
8					◎		◎			○		
9					◎		◎				○	
10					◎		◎				○	

◎ Recommended models including metric fine thread

○ Metric coarse thread

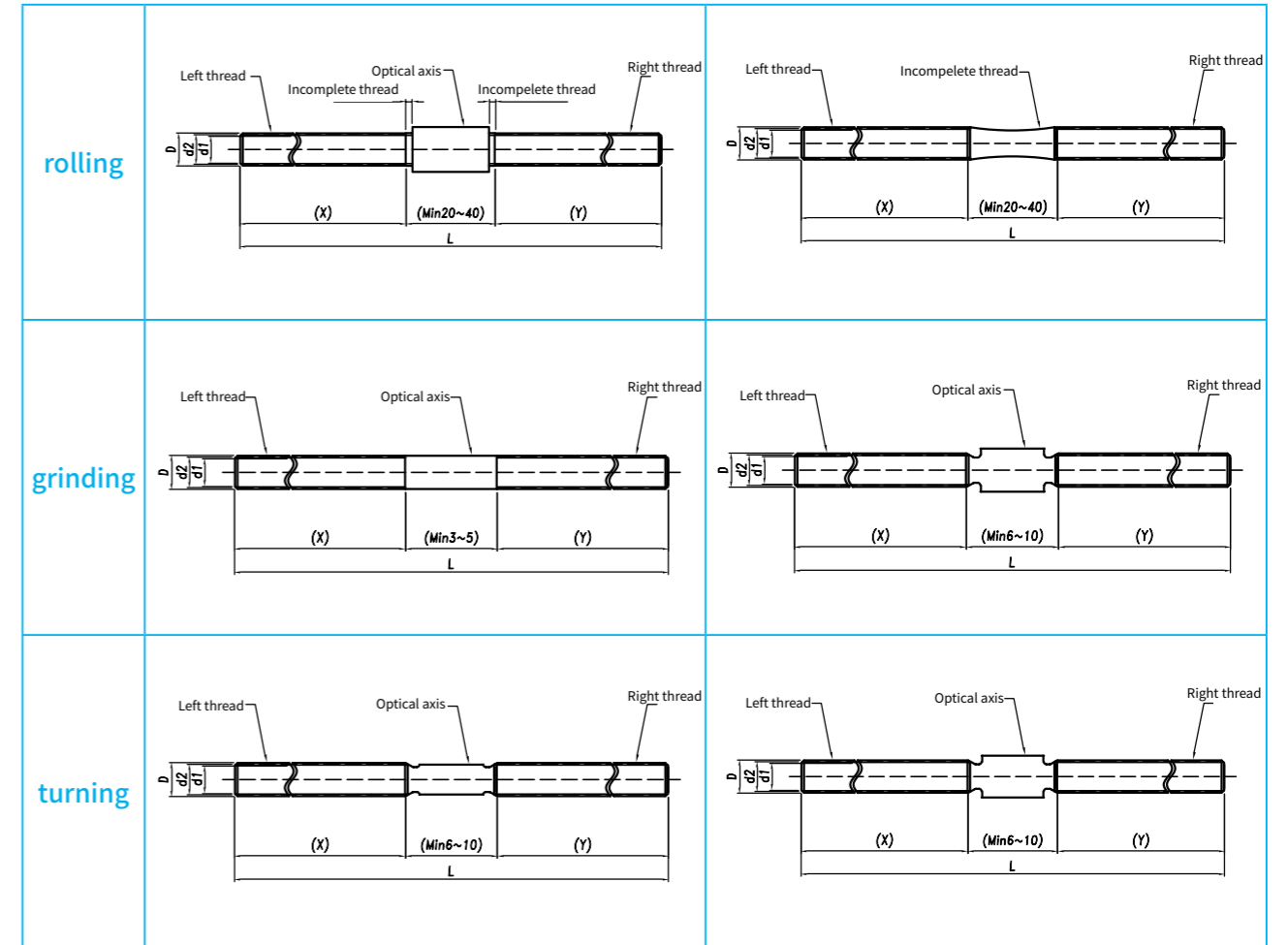
*** Please consult our salesman for details

Left hand and right hand screw

The processing technology	rolling	turning	A whirlwind milling	grinding
precision	6-10 levels	7-10 levels	6-10 levels	5-7 levels
material	SS303,SS304, SS316,45#, SS440C,40Cr	SS303, SS304, SS316 45# SS440C, 40Cr	SS303, SS304, SS316 45# SS440C, 40Cr	SS303,SS304, SS316,45#, SS440C, 40Cr
min diameter	4-10mm 12mm	2mm	16mm	4mm
min pitch	0.3 0.5	0.5	2	0.3
Neutral(relief groove, incomplete thread) min length	20 40	0	0	0
Heat treatment	-	-	Quenched and tempered	Quenched and tempered
Surface treatment	Zinc-plated, nickel plated, hard chromium plated, fluorine coated, tungsten disulfide, black chorme plated			hard chromium plated, fluorine coated, tungsten disulfide, black chorme plated
Precision grade	5-10 levels	6-10 levels	6-8 levels	5-7 levels
roughness	0.8-3.2	0.8-3.2	1.6-3.2	0.8-3.2

Screw type list

Different processes



General model

Nominal diameter	Exteral diameter (mm)						the standard length (mm)			weight (kg/m)
	P	D	d2	d1	The minimum bottom diameter	Lead Angle	Full length L	Length of screw		
								X	Y	
10	2	10	9.0	8.0	7.191	4° 03'	1500	710	710	0.6
12	2	12	11.0	10.0	9.179	3° 19'				0.8
14	3	14	12.5	11.0	10.135	4° 22'				1.0
16	3	16	14.5	13.0	12.135	3° 46'				1.3
18	4	18	16.0	14.0	13.074	4° 33'				1.6
20	4	20	18.0	16.0	15.074	4° 03'				2.0
22	5	22	19.5	17.0	16.044	4° 40'				2.3
25	5	25	22.5	20.0	19.019	4° 03'				3.1
28	5	28	22.5	23.0	22.019	3° 34'				4.0
32	6	32	29.0	26.0	24.463	3° 46'				5.2

The default material: 1045

Note: there is incomplete thread at both ends of the maximum size of the whole material.

Undertake various end-machining, please consult business personnel for details.

Nut type list

Common nut nomenclature

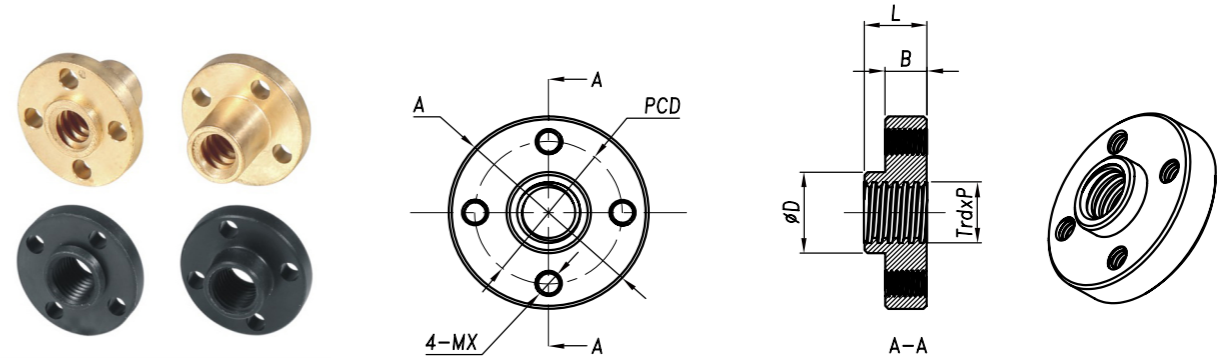
T6.35x6.35(P1.588)RL-SNT4-D14F28L25W20B5H24-K(A)-Z



No.	On behalf of the name	labelling	meaning	labelling	meaning
①	thread	T	Trapezoidal Thread	R	Round Thread
		M	Metric Thread	G	Goethe thread
		A	ACME Thread	X	Reciprocating thread
②	diameter	The numerical	diameter		
③	lead	The numerical	lead		
④	pitch	(P numerical)	pitch		
⑤	direction of thread	R	Right hand	RL	
		L	Left hand		
⑥	Nut shape	C	cylindrical	L	hexagonal
		S	square	D	cylindrical + flat
		W	Widen the square	A	thread mounting
		H	Heighten the square	Z	Other shapes
⑦	Shape of the flange	N	Without flange	X	Round flange milling square
		O	Round flange without milling flat	L	round flange with six milling flats
		H	Round flange with double milling flat	D	cylindrical + flat
⑧	Connection mode	Y	Round flange milling three parties	Z	Other shapes
		N	without mounting holes	M	Threaded hole
		C	countersunk hole	B	Pins
⑨	Mounting hole amount	T	hole	Z	Other mounting holes
		U	waist type hole		
		1-10	No mounting hole is not marked		
⑩	Nut shape features	D	nut OD	W	PCD
		F	flange dia	B	Flange thickness
		L	Nut length	H	flange cutting edge width
⑪	Nut material	B1	Brass	S3	316L
		B2	Tin bronze	S4	440c
		B3	Phosphor bronze	U	Cast iron、1045
		B4	Aluminum bronze	Z	Zinc alloy
		P	POM	B1P(K/N)	Brass+Plastic
		K	PEEK	AP(K/N)	Aluminum alloy+Plastic
		N	nylon	B1U	Brass+S45C
		J	POK	B2U	Bronze +S45C
		S1	304	Q	Brass (with graphite)
		S2	316	C	Cast iron
⑫	Surface treatment	BL	black	CR	Chrome plated
		NI	Nickel plated	WS	Tungsten disulfide
		TF	teflon		
⑬	Final syllable	A-Z	Standard nut sequence	J	CNC machining
		1-1000	Prevent duplicate Numbers	Z	Injection molding

Nut type list

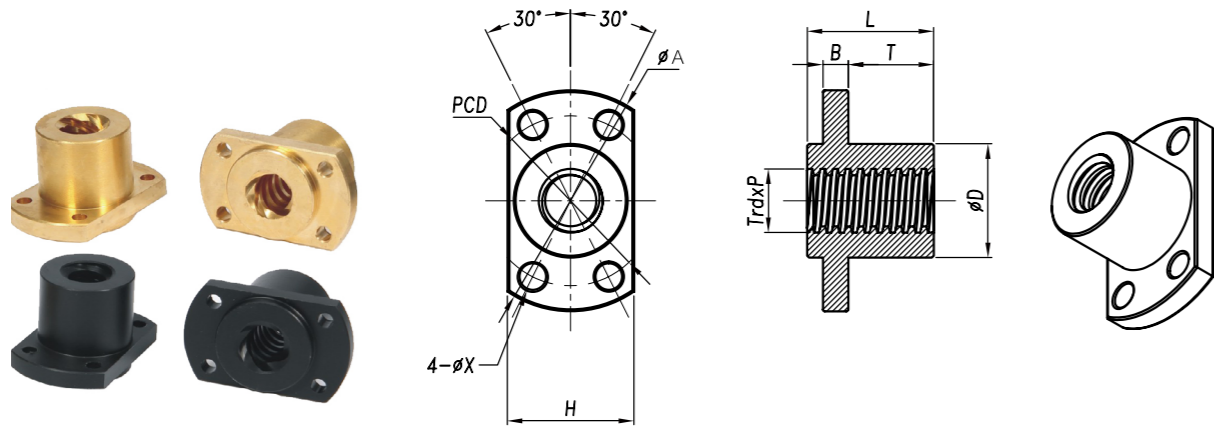
General nut construction



Model	lead	pitch	aperture	The flange diameter	Hole spacing	The thickness of the flange	length of nut	Nut outer diameter	material	Direction of thread	
type	d	P	Dw	X	A	PCD	B	L	D		
COT-4	6	1	1	3.2	19	14	2.6	8	8	consult business personnel for details	RH
				M3			4				RH
		3	1.5	3.2			2.6				RH
				M3			4				RH
		6	1.5	3.2			2.6				RH
				M3			4				RH
	8	1	1	3.2	21	16	3.5	10	10		RH
				M3			5				LH/RH
		2	2	3.2			3.5				LH/RH
				M3			5				LH/RH
		4	2	3.2			3.5				RH
				M3			5				RH
15	2.5	3.2	3.5	RH							
		M3	5	RH							
20	2.5	3.2	3.5	RH							
		M3	5	RH							

Nut shape can be customized, please consult business personnel for details.

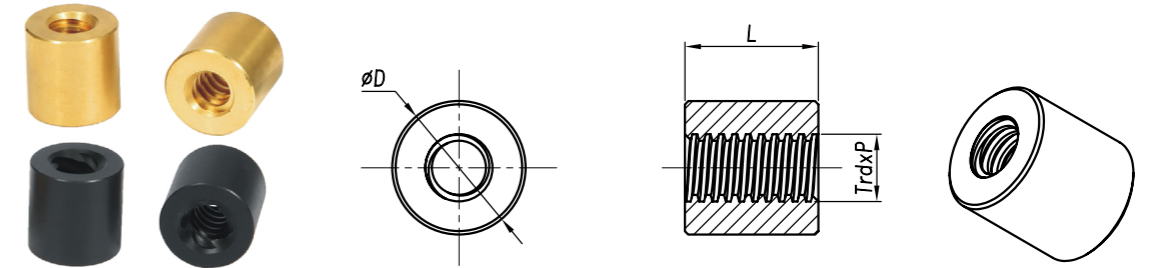
Nut type list



model		lead	pitch	T	aperture	The flange diameter	Hole spacing	The thickness of the flange	length of nut	Nut diameter	material	Direction of thread
type	d	P	Dw		X	A	PCD	B	L	D		
CHT-4	10	2	2		4.2	35	24	4	20	18	consult	RH
		5	2.5	RH								
		10	2									RH
		15	2.5									RH
		20	2.5									RH
	12	2	2		4.2	40	28	4.5	25	22		RH
		3	3	LH/RH								
		6	3	RH								
		12	3	LH/RH								
		20	2.5	RH								
	14	2	2		4.2	45	30	5	28	26		RH
		3	3	RH								
		4	4	RH								
		6	3	RH								
		8	4	RH								
	16	3	3		5.2	48	33	5.5	32	28		RH
		4	4	LH/RH								
		6	3	RH								
		8	4	RH								
		8	4	RH								
18	3	3		5.2	52	36	6	36	30	RH		
	4	4	RH									
	4	4	RH									
20	3	3		6.2	55	38	8	40	32	RH		
	4	4	LH/RH									
	20	4	RH									
	40	5	RH									

Nut shape can be customized, please consult business personnel for details.

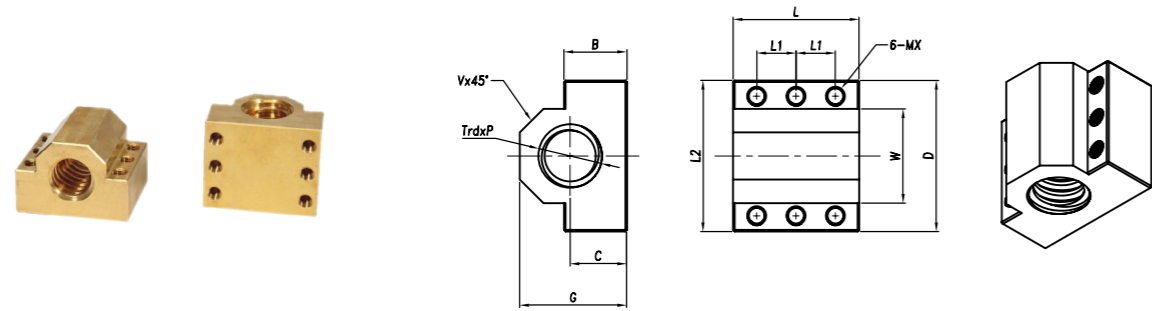
Nut type list



model		lead	pitch	length of nut	Nut diameter	material	Direction of thread
type	d	P	Dw	L	D		
CNN	10	2	2	20	20	consult business personnel for details	RH
		5	2.5				RH
		10	2				RH
		15	2.5				RH
		20	2.5				RH
	12	2	2	22	22		RH
		3	3				LH/RH
		6	3				RH
		12	3				LH/RH
		20	2.5				RH
	14	2	2	25	25		RH
		3	3				RH
		4	4				RH
		8	4				RH
		12	3				RH
	16	3	3	28	28		RH
		4	4				LH/RH
		8	4				RH
	18	3	3	30	30		RH
		4	4				RH
20	3	3	30	30	RH		
	4	4			LH/RH		
	20	4			RH		
	40	5			RH		

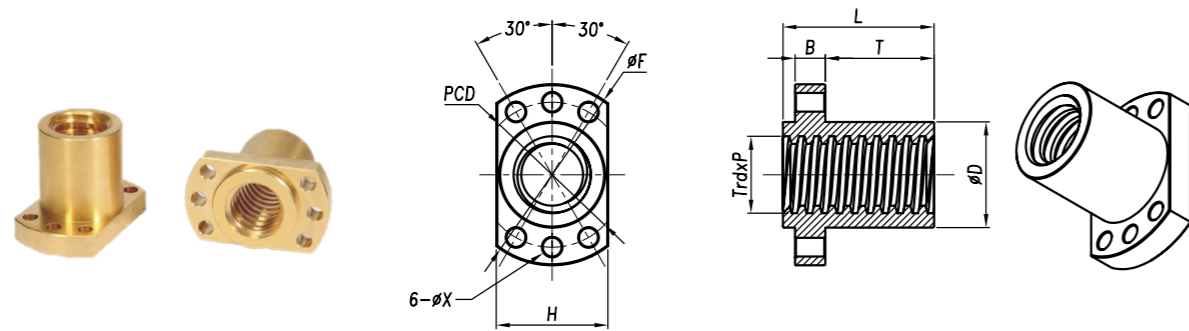
Nut shape can be customized, please consult business personnel for details.

Nut type list



model		lead	pitch	Hole spacing	length of nut	material	Direction of thread
type	d	P	Dw	L1	L		
WNM-6	20	4	4	25	40	consult business personnel for details	LH/RH

Nut shape can be customized, please consult business personnel for details.

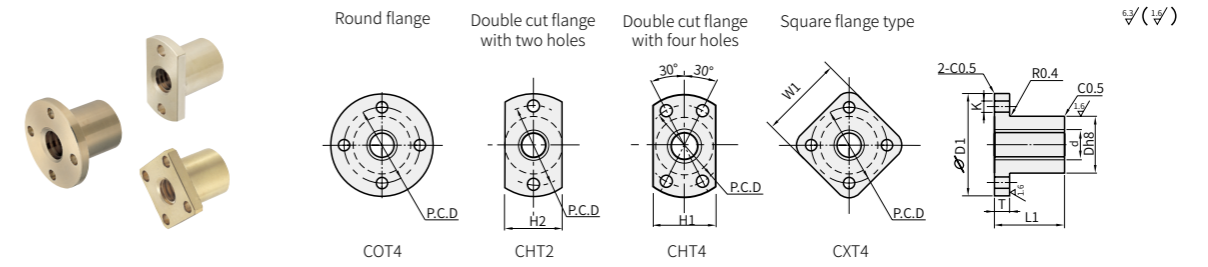


model	lead	pitch	aperture	The flange diameter	Hole spacing	The thickness of the flange	length of nut	Nut diameter	T	material	Direction of thread
type	d	P	Dw	X	A	PCD	B	L	D		
CHT-6	25	5	5	6.2	60	48	10	50	35	consult business personnel for details	RH

Nut shape can be customized, please consult business personnel for details.

Nut type list

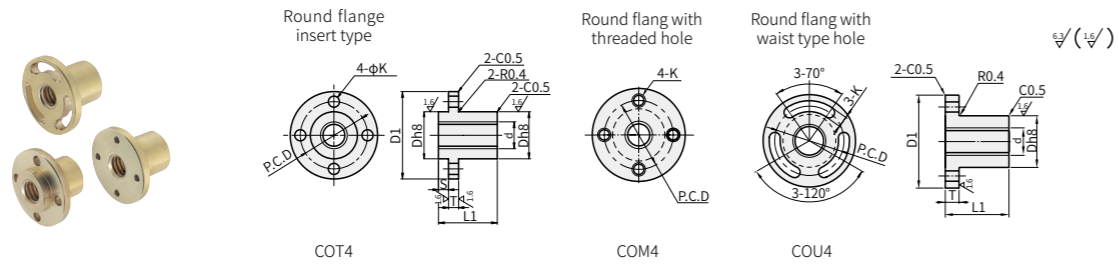
General nut construction



Thread specification d	Lead P	Nut shape code	D	L1	D1	T	P.C.D	K	W	W1	Dynamic permissible thrust (kN)			
8	1.5	COT4 CHT2 CHT4 CXT4	15	20	30	5	22	4.3	-	-	1.47			
10	2		20	24	36		26		22	-	2.55			
12	2		22	30	44		31	5.4	24	-	3.92			
14	3		COT4 CHT2 CHT4 CXT4	22	30	44	6	31	6.6	24	33	4.9		
16	3			28	35	51		38		30	38	6.67		
18	4			32	40	56		42	6.6	34	-	8.72		
20	4			COT4 CHT2 CHT4 CXT4	32	40	56	7	42	9	34	42	9.81	
22	5				36	50	61		47		40	47	12.36	
25	5				44	56	76		58	9	48	58	17.95	
28	6				COT4 CHT2 CHT4 CXT4	44	56	76	8	58	11	48	58	21.08
32	6					52	60	84		66		56	-	25.78
36	6					58	70	98		76	11	62	-	33.83
40	8	COT4 CHT2 CHT4 CXT4				58	70	98	10	85	6.6	72	-	40.31
50	8					68	80	109		85		11	72	-
10	2					COT4 CHT2 CHT4 CXT4	16	19		32	4	24	3.3	-
12	2		18				24	36	27	-		-		3.14
14	3		20				24	38	29	4.3		-	-	3.92
16	3		COT4 CHT2 CHT4 CXT4				22	28	40	5	31	4.3	-	-
20	4			26			32	44	35		-		-	7.85
22	4			28			40	50	39		5.4	-	-	9.89
25	5			COT4 CHT2 CHT4 CXT4			31	40	53	6	42	6.6	-	-
28	5				34		45	58	46		-		-	14.42
32	6				38		45	62	50		6.6	-	-	16.94

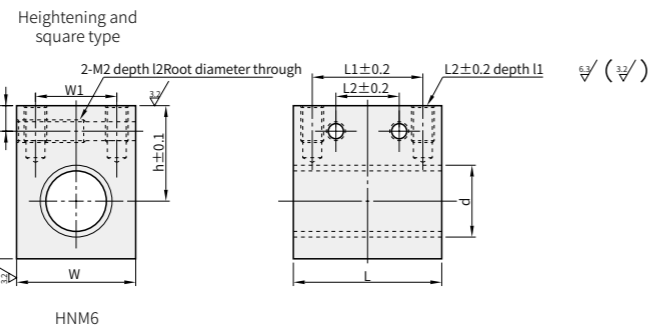
Nut shape can be customized, please consult business personnel for details.

Nut type list



model		pitch P	D	L1	D1		T	S	P.C.D		K		Dynamic permissible thrust(kN)
type	d				COT4	COM4 COU4			COT4	COM4 COU4	COT4 COU4	COM4	
COT4 COM4 COU4	14	3	22	30	44	44	5	5	33	31	5.4	M4	4.9
	16		28	35	52	51	6	6	40	38	6.67		6.67
	20	4	32	40	56	56	6	6	44	42	6.6	M5	9.81
	22		36	50	60	61	7	7	48	47	6.6	M5	12.36
	25		36	50	60	61	7	7	48	47	6.6	M5	14.22
	28	5	44	56	-	76	8	-	-	58	9	M6	17.95
	32		44	56	-	76	8	-	-	58	9	M6	21.08

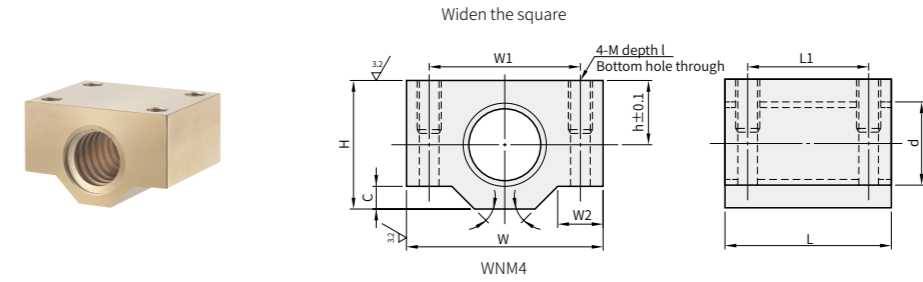
Nut shape can be customized, please consult business personnel for details.



model		pitch P	h	W	H	L	L1	L2	W1	M1	l1	M2	l2	t	Dynamic permissible thrust(kN)
type	d														
HNM6	10	2	20	20	30	24	16	-	12	M4	8	-	-	6	2.168
	12		23	22	34	30	21	9	13	M5	10	M5	15	6	3.332
	14	3	27	28	41	35	25	11	18	M6	12	M6	18	7	4.165
	16		27	28	41	35	25	11	18						5.67
	18	4	29	32	45	40	30	16	22	M6	12	M6	18	7	7.412
	20		29	32	45	40	30	16	22						8.339
	22		30	36	48	50	40	20	26						10.506
	25	5	30	36	48	50	40	20	26	M8	16	M8	22	8	12.087
	28		38	44	60	62	50	25	32						17.043
	32	6	38	44	60	62	50	25	32	M8	16	M8	22	8	19.389

Nut shape can be customized, please consult business personnel for details.

Nut type list



model		pitch P	h	W	H	L	L1	W1	W2	C	M	l	Dynamic permissible thrust(kN)
type	d												
WNM4	10	2	10	30	20	24	16	20	8	4	M4	8	2.168
	12	2	11	38	22	30	20	26	10	5	M5	10	3.332
	14	3	11	38	22	30	20	26	10	5	M5	10	4.165
	16	3	14	44	28	35	24	32	10	5	M5	10	5.67
	18	4	16	48	32	40	28	36	11	6	N6	12	7.412
	20	4	16	48	32	40	28	36	11	6	M6	12	8.339
	22	5	20	62	38	50	34	46	14	10	M8	16	10.506
	25	5	20	62	38	50	34	46	14	10	M8	16	12.087
	28	5	25	68	47	56	40	52	14	10	M8	16	15.258
	32	6	25	68	47	56	40	52	14	10	M8	16	17.918

Nut shape can be customized, please consult business personnel for details.

Nut type list

anti-backlash nut nomenclature

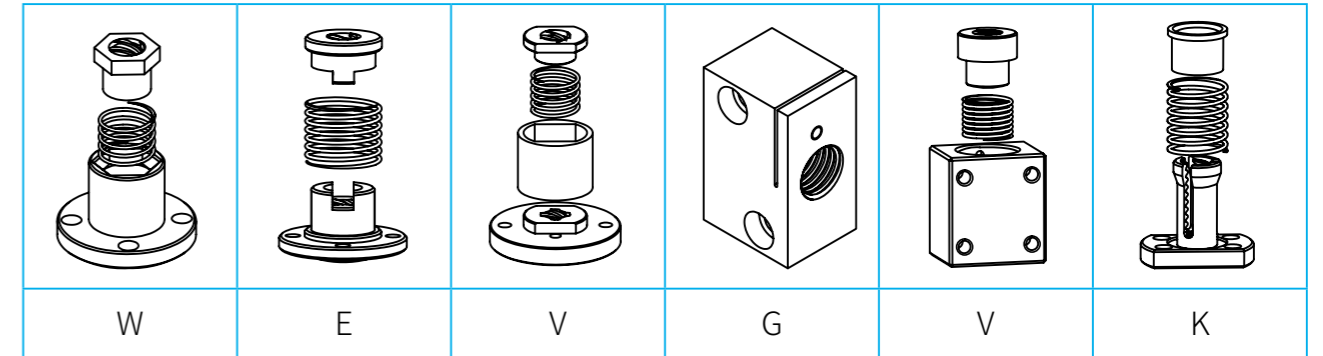
T 8 x 4 (P2) LH -K C H T 2 - B1 - 1

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

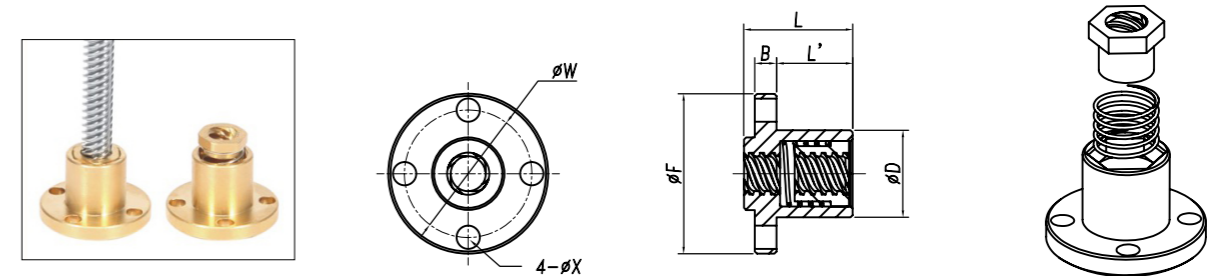
No.	On behalf of the name	labelling	meaning	labelling	meaning
①	thread	T	Trapezoidal Thread	R	Round Thread
		M	Metric Thread	G	Goethe thread
		A	ACME Thread	X	Reciprocating thread
②	diameter	The numerical	diameter		
③	lead	The numerical	lead		
④	pitch	(P numerical)	pitch		
⑤	direction of thread	R	Right hand	RL	
		L	Left hand		
⑥	Anti-backlash code	The specific appearance	Query the 22 page table		
⑦	Nut shape	C	cylindrical	L	hexagonal
		S	square	Z	Other shapes
		W	Widen the square		
		H	Heighten the square		
⑧	Shape of the flange	N	Without flange	X	Round flange milling square
		O	Round flange without milling flat	A	Threaded connections
		H	Round flange with double milling flat	B	Pin
		Y	Round flange milling three parties	Z	other shapes
⑨	Mounting hole	N	without mounting holes	U	waist type hole
		C	countersunk hole	M	Threaded hole
		T	hole	Z	Other mounting holes
⑩	Mounting holes amount	1-10	No mounting hole is not marked		
⑪	Nut material	B1	Brass	S2	316
		B2	Tin bronze	S3	316L
		B3	Phosphor bronze	S4	440C
		B4	Aluminum bronze	C	Cast iron、1045
		P	POM	Z	Zinc alloy
		K	PEEK	BP	Brass+Plastic
		N	nylon	AP	Aluminum alloy+Plastic
		J	POK	BC	Brass+steel
⑫	Final syllable	S1	304	Q	Self lubrication (no oil)
		A-Z	Standard nut sequence	J	CNC machining
		1-1000	Prevent duplicate Numbers	Z	Injection molding

Nut type list

① anti-backlash nut code name



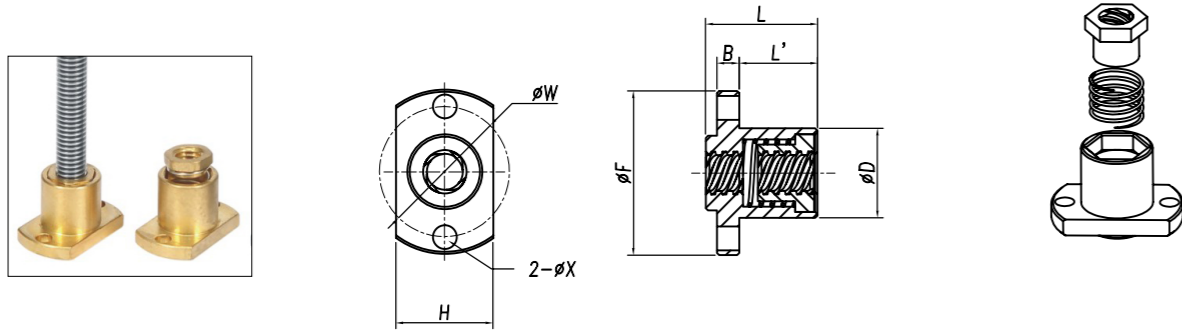
anti-backlash nut structure



Nut type	model	lead	pitch	material	Direction of thread
DCOT4-A	Tr6x1	1	1	consult business personnel for details	RH
	Tr6x3-2P	3	1.5		RH
	Tr6x6-4P	6	1.5		RH
	Tr8x2	2	2		LH/RH
	Tr8x8-4P	8	2		LH/RH
	Tr8x15-6P	15	2.5		RH
	Tr8x20-8P	20	2.5		RH

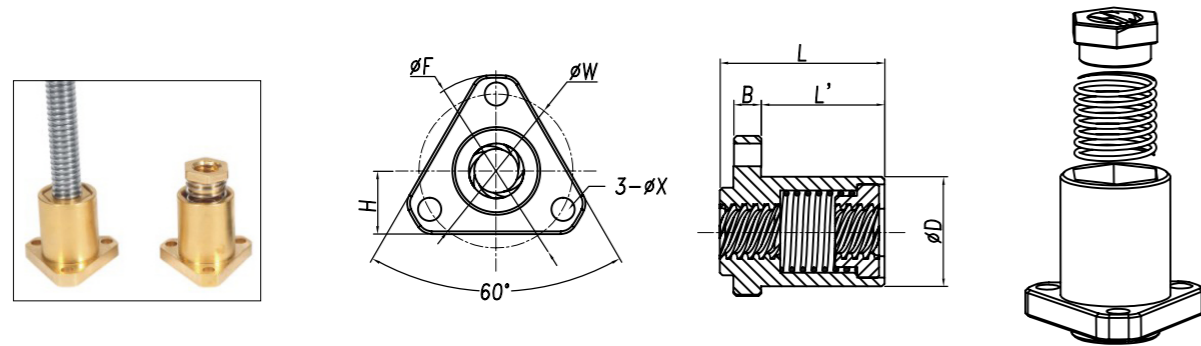
Please consult business personnel for specific model.

Nut type list



Nut type	model	lead	pitch	material	Direction of thread
DCYT3-A	Tr6x1	1	1	consult business personnel for details	RH
	Tr6x3-2P	3	1.5		RH
	Tr6x6-4P	6	1.5		RH
	Tr8x2	2	2		LH/RH
	Tr8x8-4P	8	2		LH/RH
	Tr8x15-6P	15	2.5		RH
	Tr8x20-8P	20	2.5		RH
	Tr10x2	2	2		RH
	Tr10x5-2P	5	2.5		RH
	Tr10x10-5P	10	2		RH
	Tr10x15-6P	15	2.5		RH
Tr10x20-8P	20	2.5	RH		

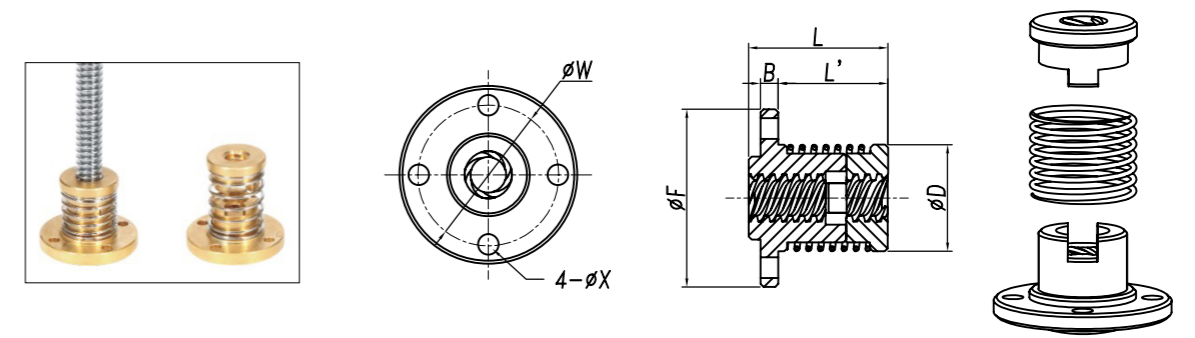
Please consult business personnel for specific model.



Nut type	model	lead	pitch	material	Direction of thread
DCYT3-A	Tr10x2	2	2	consult business personnel for details	RH
	Tr10x5-2P	5	2.5		RH
	Tr10x10-5P	10	2		RH
	Tr10x15-6P	15	2.5		RH
	Tr10x20-8P	20	2.5		RH

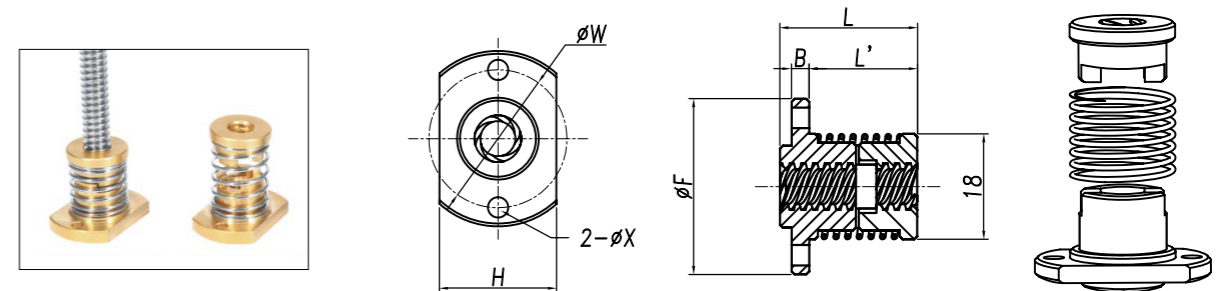
Please consult business personnel for specific model.

Nut type list



Nut type	model	lead	pitch	material	Direction of thread
ECOT4-A	Tr8x2	2	2	consult business personnel for details	LH/RH
	Tr8x8-4P	8	2		LH/RH
	Tr8x15-6P	15	2.5		RH
	Tr8x20-8P	20	2.5		RH

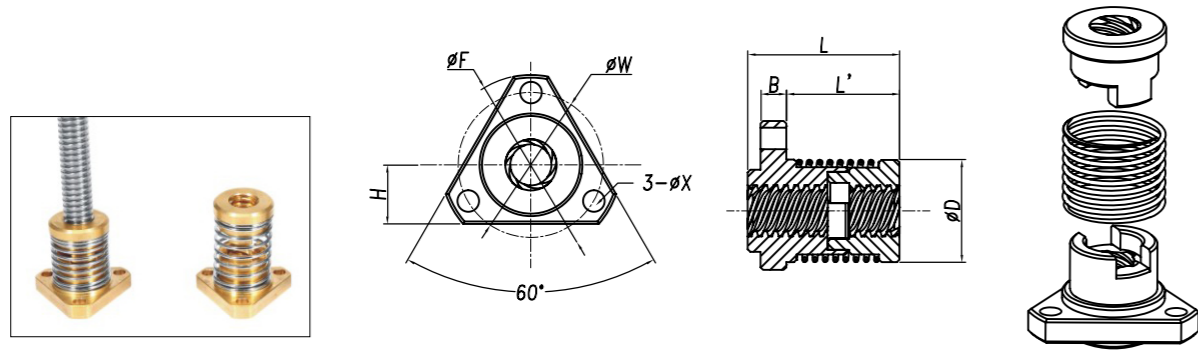
Please consult business personnel for specific model.



Nut type	model	lead	pitch	material	Direction of thread
ECOT4-A	Tr8x2	2	2	consult business personnel for details	LH/RH
	Tr8x8-4P	8	2		LH/RH
	Tr8x15-6P	15	2.5		RH
	Tr8x20-8P	20	2.5		RH
	Tr10x2	2	2		RH
	Tr10x5-2P	5	2.5		RH
	Tr10x10-5P	10	2		RH
	Tr10x15-6P	15	2.5		RH
Tr10x20-8P	20	2.5	RH		

Please consult business personnel for specific model.

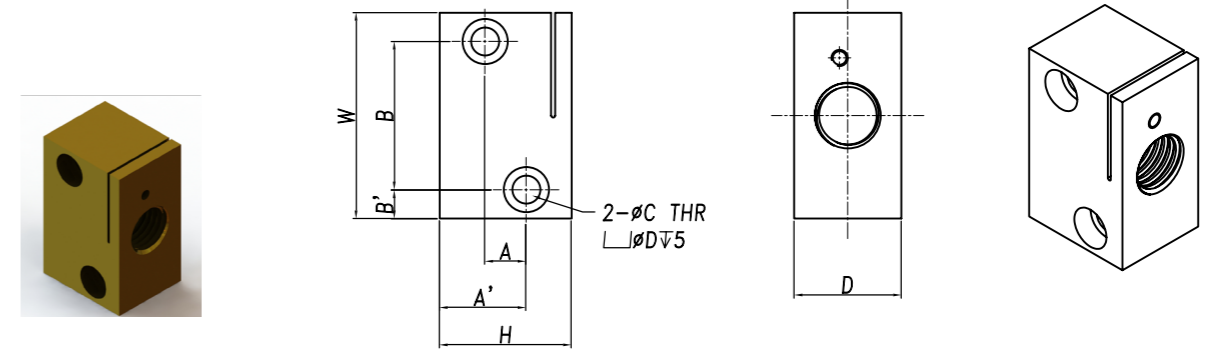
Nut type list



Nut type	model	lead	pitch	material	Direction of thread
ECYT3	Tr10x2	2	2	consult business personnel for details	RH
	Tr10x5-2P	5	2.5		RH
	Tr10x10-5P	10	2		RH
	Tr10x15-6P	15	2.5		RH
	Tr10x20-8P	20	2.5		RH

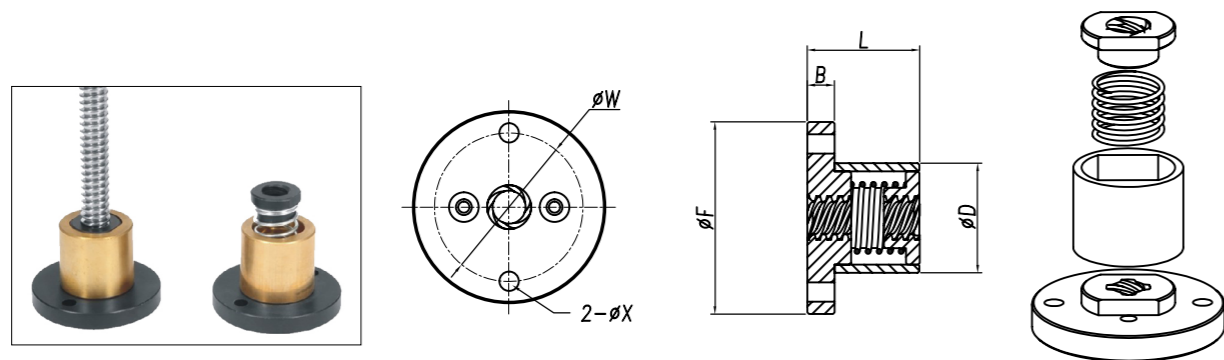
Please consult business personnel for specific model.

Nut type list



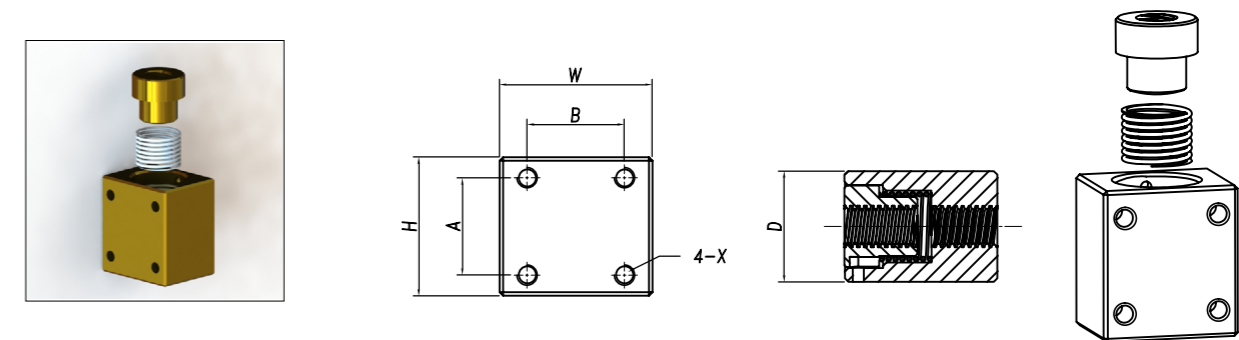
Nut type	model	lead	pitch	material	Direction of thread
GSNC2	Tr8x2	2	2	consult business personnel for details	LH/RH
	Tr8x4-2P	4	2		LH/RH
	Tr10x2	2	2		LH/RH
	Tr10x4-2P	4	2		LH/RH
	Tr12x2	2	2		LH/RH
	Tr12x4-2P	4	2		LH/RH

Please consult business personnel for specific model.



Nut type	model	lead	pitch	material	Direction of thread
FCT2	Tr8x2	2	2	consult business personnel for details	LH/RH
	Tr8x8-4P	8	2		LH/RH

Please consult business personnel for specific model.






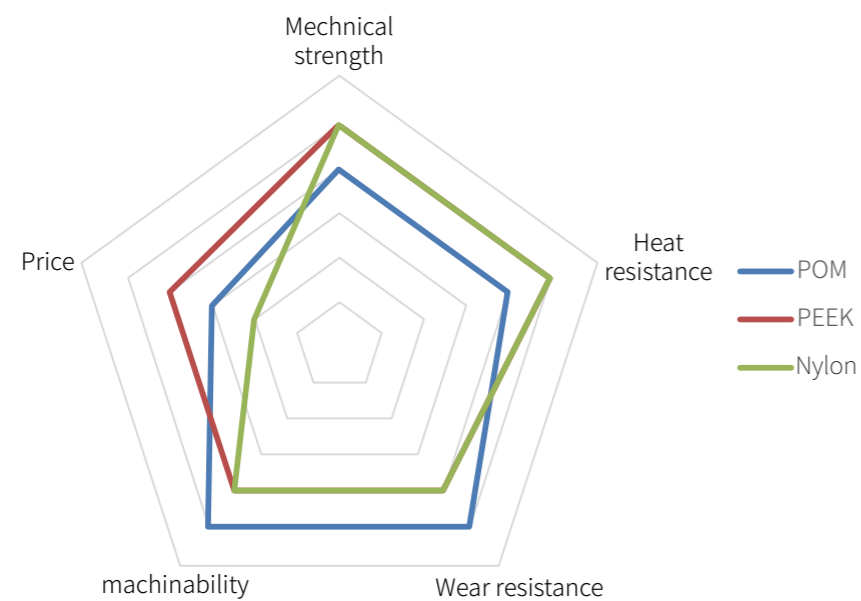
Nut type	model	lead	pitch	material	Direction of thread
HSNM4	Tr8x2	2	2	consult business personnel for details	LH/RH
	Tr8x4-2P	4	2		LH/RH
	Tr10x2	2	2		LH/RH
	Tr10x4-2P	4	2		LH/RH
	Tr12x2	2	2		LH/RH

Please consult business personnel for specific model.

The material list

Plastic material

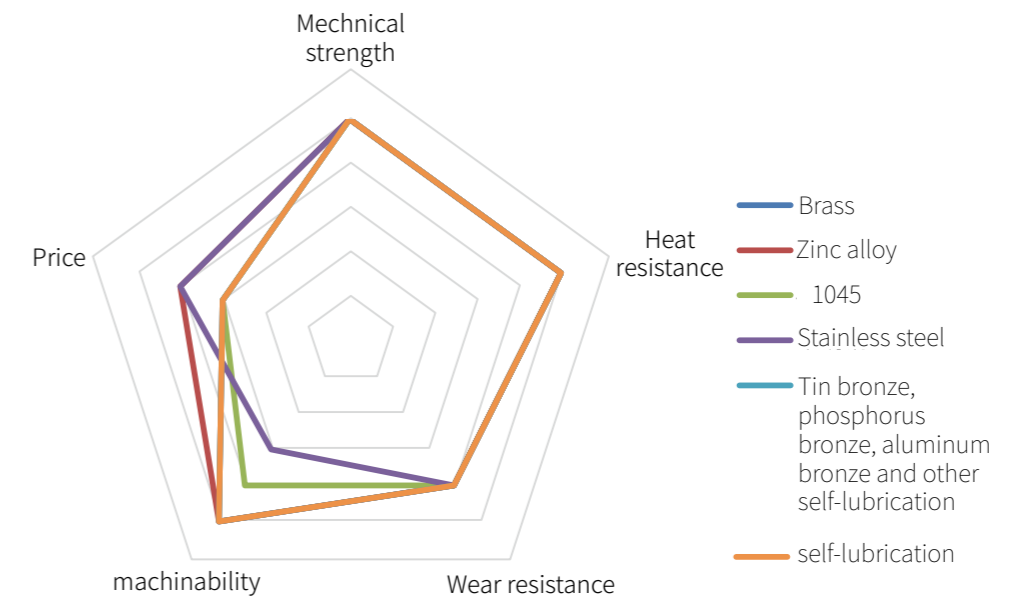
The name of the material	POM and modified materials	PEEK and modified materials	Nylon and modified materials	Other high strength wear-resistant plastics
Material appearance				consult business personnel for detailed
Using the environment	Conventional environment	Special environment	Conventional environment	
characteristics	Balancing features	Corrosion resistance, solubility resistance, flame retardant, heat resistance	general	
Others	According to the modification can be lubricated and conductive	Hygienic quality of food	insulation	
Mechanical strength	standard	excellent	excellent	
Heat resistance	standard	excellent	excellent	
Wear resistance	excellent	standard	standard	
machinability	excellent	standard	standard	
Price	general	higher	general	



The material list

Metal material

The name of the material	Brass	Brass	1045、Cast iron	Stainless steel	Tin bronze, phosphorus bronze, aluminum bronze and other selflubrication	Self lubricating (no oil type)
Material appearance						
Using the environment	Conventional environment	Conventional environment	Conventional environment	Conventional environment	Conventional environment	Conventional environment
characteristics	Corrosion resistant	Corrosion resistant	High strength	Corrosion resistant	Corrosion resistant	Corrosion resistant
Others	Good heat dissipation performance	Good cast molding	Easy processing	Hygienic quality of food	All kinds of characteristics	With graphite, self lubricating
Mechanical strength	excellent	excellent	excellent	excellent	excellent	excellent
Heat resistance	excellent	excellent	excellent	excellent	excellent	excellent
Wear resistance	standard	standard	standard	standard	standard	standard
machinability	excellent	excellent	standard	general	excellent	excellent
Price	general	higher	general	higher	general	general



Other technical parameters

Gap value

category	Nut structure	features	Applicable nut material
Regular grade	General type	Big clearance	Brass, Tin bronze, Phosphor bronze, Aluminum bronze, POM, PEK, nylon, POK, Stainless steel, 1045, Zinc alloy, Brass+Plastic, Aluminum alloy+Plastic, Brass+Steel, Self lubricating(No oil type)
		medium clearance	
		small clearance	
Anti-backlash type	No clearance		
Precision grade	General type	medium clearance	
		Small clearance	
		Micro clearance	
	Anti-backlash type	No clearance	

Precision grade	3	4	5	6	7	8	9
Axial clearance	0.015-0.03	0.02-0.04	0.03-0.06	0.06-0.1	0.1-0.15	0.12-0.18	0.16-0.24

Axial clearance error

$$e_p = \frac{2 \times l_u}{300} \times 0.21 \text{ (mm)}$$

l_u : Effective length of thread

Other technical parameters

Self-locking

Because of the thread profile characteristics of trapezoidal screw, So the spiral Angle λ of different specifications screw is not the same, and the equivalent friction coefficient f_v between screw nuts of different materials is also different. Then apply a positive pressure F to the nut at the rated load, The screw and nut cannot slip when the helix Angle λ is less than the equivalent friction Angle R , this condition called self-locking of screw.

$$\lambda = \arctan(S/\pi d)$$

λ : Helix Angle
 S : Thread lead
 π : PI
 d : Thread pitch diameter

$$f_v = f / \cos \beta$$

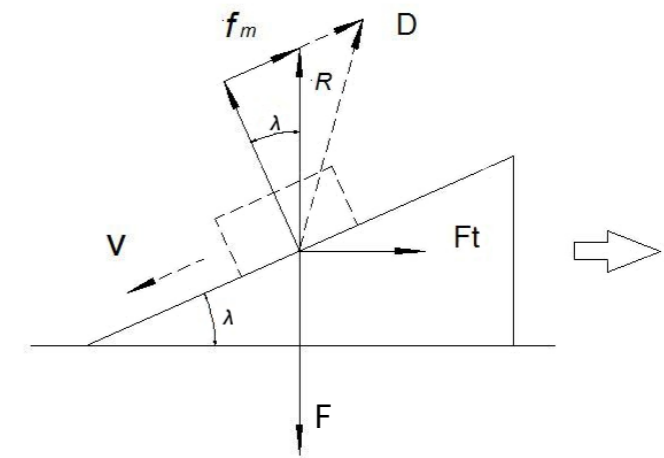
f_v : Equivalent friction coefficient
 f : friction coefficient
 β : thread form bevel

$$R = \arctan f_v$$

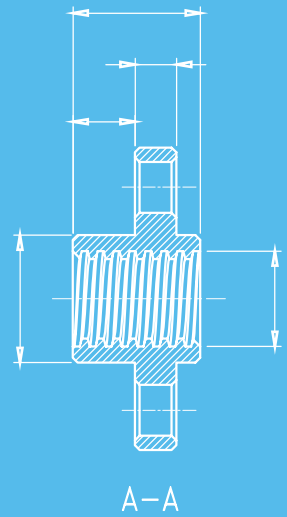
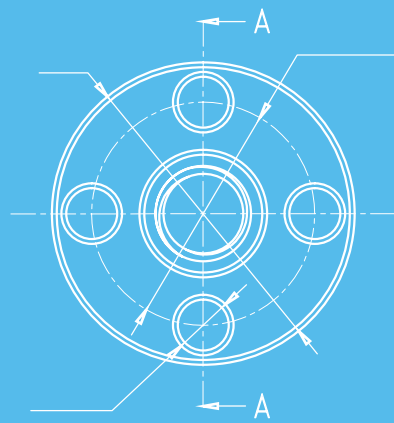
λ : Helix Angle
 f_v : Equivalent friction coefficient
 R : Equivalent friction Angle

$\lambda < R$
 with Self-locking

$\lambda > R$
 without Self-locking



In the vertical lifting system, the screw with self-locking does not need to be equipped with additional locking device, which provides a higher safety factor when the motor stalls, and provides more selection schemes for designers in terms of functions.



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