

# Miniature Ball Screw

Miniature ball screw has the advantages of high mechanical efficiency, high precision and high durability. It can be customized, with different materials for deflectors and adjustable preload. Compared to other transmission machinery, hydraulic transmission, ball screw failure rate is very low. Repair and maintenance is also simpler, only the general lubrication and dust-proof is required. It can be applied for many special occasions and environment.



**SCREWTECH**  
斯科勒自动化



**SCREWTECH**  
**斯科勒自动化**

## Miniature ball screw fascicule

We SCREWTECH produce miniature ball screw with high precision, low noise, good wear resistance. We have a full set of professional production equipment and matching precision testing equipment including internal thread grinder, external thread grinder, cylindrical grinder, turning&milling complex center, machining center, projector, dynamic measuring instrument, etc. We focus on producing miniature ball screw, custom ball screw, high speed ball screw, and bi-directional thread ball screw pair, as well as precision sliding lead screws.

The ball screw minimum diameter can be 4mm. Ball screw accuracy grade: C3, C5 or C7. We can produce the nut according to customer's application requirements. Both plastic and metal deflector are available. Metal deflector ball screw is often used to meet the application requirements of high temperature and corrosion resistance. It can greatly improve the ball screw's service life, stability and smoothness.

Our standard ball screw models are available in moderate amount of inventory, can be shipped in time. Custom ballnut are available upon request. The diameter of the precision miniature ball screw is from  $\phi 4$ - $\phi 32$ mm, including 0401, 0601, 0602, 0801, 0802.5, 1002, 1002.5, 1003, 1004, 1202, 1202.5, 1203, 1204, 1205, 1210, 1602, 1603, 2002, 2003, 3202, 3203, etc. Our products are widely used in CNC machine tools, semiconductor equipment, automation equipment, medical equipment, petroleum machinery, precision measuring instruments, mechanical arm, laboratory equipment, aerospace, printing machinery, pharmaceutical packaging machinery, energy enterprises, beverage machinery, food machinery and other fields.

Adhering to the "professional, honest, efficient" business philosophy, we are determined to provide customers with the best products and best service.

# CONTENTS

1

Miniature ball screw features

3

Miniature ball screw model list

7

Standard end machining items in stock

13

Suggested End Machining of Screw Shaft

14

New items of high speed miniature ball screws

## Brief introduction of Precision Miniature Ball Screw

Precision Miniature ball screw assemblies are conventionally understood to be systems with a nominal diameter of 16mm or less. Their miniaturized nut geometries are achieved through the use of optimized recirculation systems with very small balls. These ball screws are usually not preloaded or only slightly preloaded to ensure the smoothest possible travel. Miniature Ball Screw is normally used in high precision equipments and apparatus.

We developed a special metal deflector to replace the plastic deflector. The metal deflector can improve the serving life, stability and smoothness. If the metal deflector is assembled together with the stainless steel screw shaft, nut and ball, the miniature ball screw can be used in the environment of high-temperature and corrosion.



## Application of Miniature Ball Screw

- ◇ CNC machines: CNC machine centre, CNC turning machine, milling machine, EDM machines, grinding machine, wire cut EDM machine, CNC boring machine.
- ◇ Industrial equipment: printing equipment, automation machinery, textile machine, drawing machine, injection molding machine, paper processing equipment.
- ◇ Electronic machines: measuring robot, XY working table, medical equipment, SMT Equipment, semiconductor equipment, other automation equipments.
- ◇ Transport machinery: material handling equipment, elevated actuator.
- ◇ Others: antenna leg actuator, valve operator etc.

## Features of Miniature Ball Screws

### ● High mechanical efficiency

Miniature ball Screws are fitted with steel Balls, providing rolling contact between the Nut and Screw Shaft, allowing for mechanical efficiency of over 90% and reducing the required Torque to less than one-third that of conventional Lead Screws. The design of the Ball Screws also allows linear motion to be converted into rotary motion easily (Fig. 1).

### ● Axial play

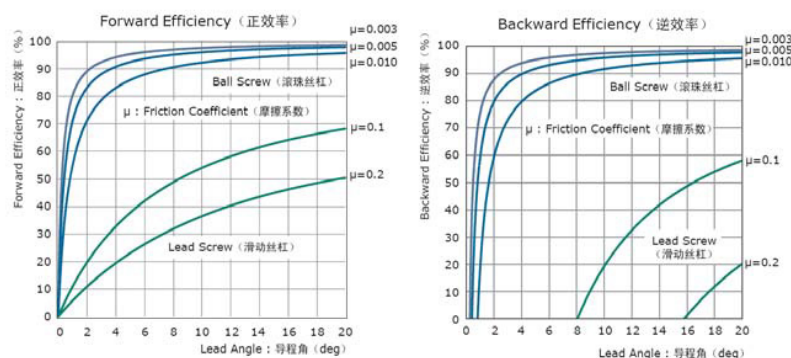
With conventional Triangular and Trapezoidal Screw threads, reducing the Axial play increases the rotational Torque due to the sliding friction. Screwtech Ball Screws, on the other hand, are very easily rotated, even without axial play.

### ● High precision

Screwtech Ball Screws are machined, assembled, and inspected using the technology of ultra-precision shaft Screw and Screw Gauge machining, under the temperature controlled room. High precision and accurate positioning ensure high reliability in use.

### ● Long service life

The Ball Screw movement results in virtually no wear, as the rolling-contact design, combined with the use of carefully selected heat-treated materials, results in an extremely low friction. This is the reason that high precision can be kept over long period.



Mechanical Efficiency

## The range of Miniature Ball Screw

The range of our miniature Ball Screws is from  $\phi 4\text{mm}$  to  $\phi 16\text{mm}$  as shaft nominal diameter. Maximum limit of overall lengths are shown below. Maximum limit of overall lengths will vary depending on the shaft end configuration, materials. Please inquire Screwtech for details.

Shaft nominal diameter	Accuracy Grade		
	C3	C5	C7
4	100	100	/
6	180	180	400
8	250	250	450
10	400	400	650
12	500	500	700
14	600	600	700
16	770	770	1000

Note: if required length exceeds the number in table above, please ask Screwtech representative.

## Dust prevention

In Ball Screws, if dust or other contaminations intrude into the Ball Nut, wear is accelerated, the screw groove will be damaged, circulation will be obstructed due to Ball fracture, damage of recirculation parts and so on. Eventually, the Ball Screws will cease to function. Where the possibility of dust or other contaminant exists, the screw thread section cannot be left exposed, and dust prevention measure such as a bellows or Telescopic pipe must be taken.

Screwtech Miniature Ball Screws are concentrated on compact design for a feature of Miniature Ball Screw. Therefore, all models in the catalogue are the dimension without seals. Please inquire Screwtech if seals are required. Please note that Nut dimension may change due to seal installation. Some models cannot installed with seals.

## Special Surface treatment

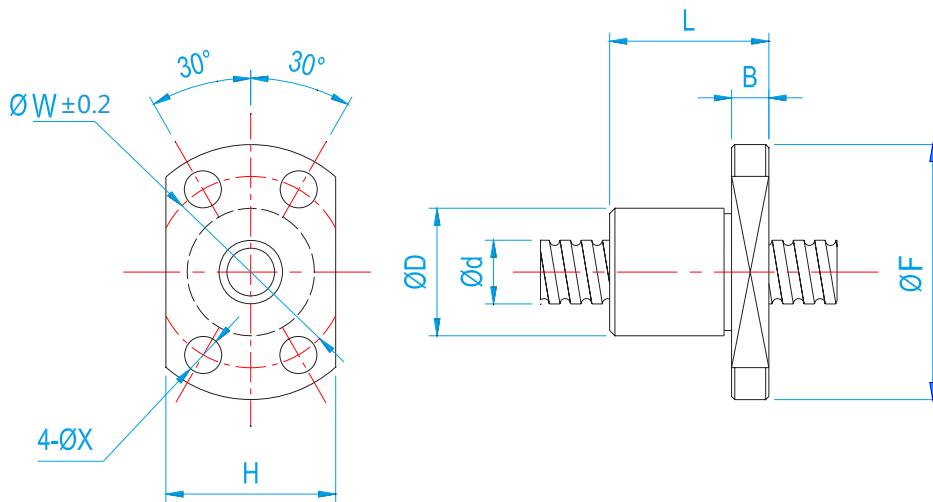
Surface treatment can be possible for the purpose of rust proof. Black oxide treatment is SCREWTECH standard surface treatment for the purpose of rust prevention. Please inquire SCREWTECH if other surface treatments are needed.

- Due to strict production management, film thickness can be treated equally and smoothness is kept.
- High anti-rust ability is possible.



# Miniature Ball screw

Round Nut with Flange MIF



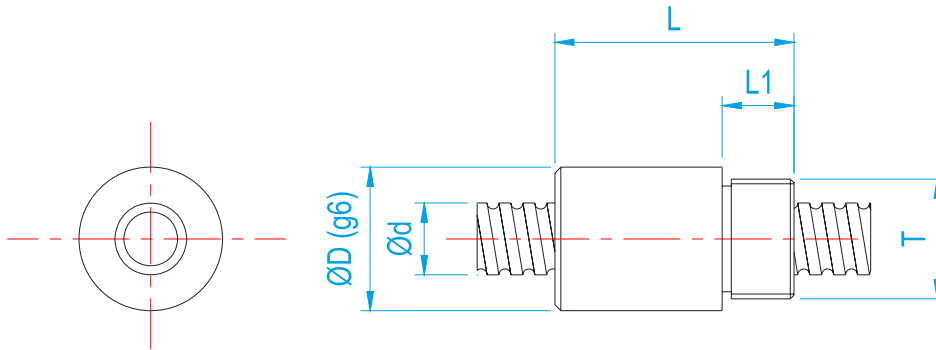
Code	d	P	Dw	n	Ca	Coa	K	Nut Dimension									
								D	F	B	L	W	H	X	Y	Z	Q
MIF0401	4	1	0.8	2	40	51	2.8	10	20	3	12	15	14	2.9	/	/	/
MIF0501	5	1	0.8	3	/	/	/	10	20	3	12	15	14	2.9	/	/	/
MIF0601	6	1	0.8	3	66	111	6.8	12	24	3.5	15	18	16	3.4	/	/	/
MIF0602	6	2	1.2	3	73	121	6.8	12	24	4	18	18	16	3.4	/	/	/
MIF0801	8	1	0.8	3	161	403	14	14	27	4	16	21	18	3.4	/	/	/
MIF0802	8	2	1.2/1.588	3	222	458	13	14	27	4	16	21	18	3.4	/	/	/
MIF0802.5	8	2.5	1.2	3	221	457	13	16	29	4	26	23	20	3.4	/	/	/
MIF1002	10	2	1.588	3	243	569	15	18	35	5	28	27	22	4.5	/	/	/
MIF1003	10	3	2.0	3	245	570	15	20	37	6	32	29	24	4.5	/	/	/
MIF1004	10	4	2.381	4	468	905	17	20	37	8	38	29	24	4.5	/	/	/
MIF1201	12	1	0.8	4	173	317	15	20	37	5	28	29	24	4.5	/	/	/
MIF1202	12	2	1.588	3	334	902	22	20	37	5	28	29	24	4.5	/	/	/
MIF1202.5	12	2.5	1.588	3	355	981	22	20	37	5	28	29	24	4.5	/	/	/
MIF1203	12	3	1.588	3	365	990	22	22	39	6	32	31	26	4.5	/	/	/
MIF1204B	12	4	2.381	3	/	/	/	26	46	8	34	36	28	4.5	/	/	/
MIF1204C	12	4	2.381	3	/	/	/	24	40	6	28	32	25	3.5	/	/	/
MIF1205	12	5	2.0	3	619	883	22	22	43	8	38	31	26	4.5	/	/	/
MIF1402	14	2	1.588	3	354	1053	24	21	40	6	23	31	26	5.5	/	/	/
MIF1404	14	4	1.588	3	/	/	/	24	41	6	32	33	28	5.5	/	/	/
MIF1405	14	5	3.175	3	/	/	/	26	46	8	40	36	30	5.5	/	/	/
MIF1602	16	2	1.588	3	373	1200	26	25	43	10	40	35	29	5.5	/	/	/
MIF1602.5	16	2.5	1.588	3	400	1210	26	25	43	10	40	35	29	5.5	/	/	/
MIF1603	16	3	2.0	3	530	1380	26	25	43	10	40	35	29	5.5	/	/	/
MIF2002	20	2	1.588	4	/	/	/	30	50	10	40	40	35	5.5	/	/	/

Not: the size and shape of the nut can be made as per customers' requirement.

P: lead . Dw: ball diameter n: number of ball recirculation. K: stiffness (Kgf/μm).  
Ca: basic dynamic rating load (Kgf). Coa: basic static rating load (Kgf).Q:oilhole

# Miniature Ball screw

Round Nut with Thread Mounting MIA



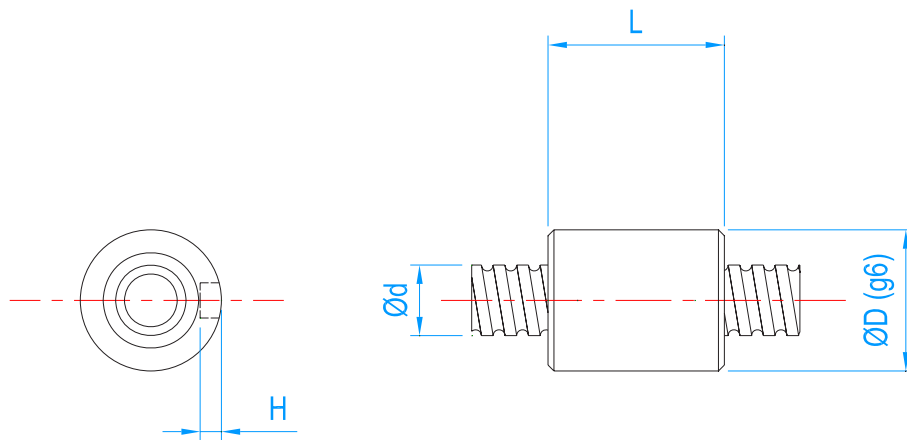
Code	d	P	Dw	n	Ca	Coa	K	Nut Dimension			
								D	L	L1	T
MIA0401	4	1	0.8	2	40	51	2.8	10	15	5	M8x0.75
MIA0601	6	1	0.8	2	66	111	6.8	12	16	5	M10x1
MIA0602	6	2	1.2	3	73	121	6.8	12	20	6	M10x1
MIA0801	8	1	0.8	3	135	225	7.4	16	22	8	M14x1
MIA0802	8	2	1.2	3	135	225	7.4	16	27	8	M14x1
MIA0802.5	8	2.5	1.2	3	177	278	7.4	16	29	8	M14x1
MIA1002	10	2	1.588	3	185	305	9.0	18	28	7	M16x1
MIA1003	10	3	2.0	3	185	305	9.0	18	28	7	M16x1
MIA1004	10	4	2.381	3	395	590	9.0	26	34	10	M16x1
MIA1201	12	1	0.8	3	173	317	11	20	39	10	M18x1
MIA1202	12	2	1.588	3	173	317	11	20	28	10	M18x1
MIA1202.5	12	2.5	1.588	3	173	317	11	20	28	10	M18x1
MIA1203	12	3	1.6	3	173	317	11	20	33	10	M18x1
MIA1205	12	5	2.0	3	619	883	17	24	38	10	M20x1
MIA1402	14	2	1.588	3	287	633	12	24	38	10	M20x1
MIA1602	16	2	1.588	3	253	671	12	25	44	10	M22x1
MIA1602.5	16	2.5	1.588	3	253	671	12	25	44	10	M22x1
MIA1603	16	3	2.0	3	253	671	12	25	44	10	M22x1

Not: the size and shape of the nut can be made as per customers' requirement.

P: lead . Dw: ball diameter n: number of ball recirculation. K: stiffness (Kgf/μm).  
Ca: basic dynamic rating load (Kgf). Coa: basic static rating load (Kgf).

# Miniature Ball screw

Cylindrical nut without flange MIC



Code	d	P	Dw	n	Ca	Coa	K	Nut Dimension	
								D	L
MIC0401	4	1	0.8	2	40	51	2.8	10	12
MIC0601	6	1	0.8	2	66	111	6.8	12	15
MIC0602	6	2	1.2	3	73	121	6.8	12	15
MIC0801	8	1	0.8	3	135	225	7.4	16	16
MIC0802	8	2	1.2/1.588	3	135	225	7.4	14	16
MIC0802.5	8	2.5	1.2	3	177	278	7.4	16	26
MIC1002	10	2	1.588	3	185	305	9.0	18	28
MIC1003	10	3	2.0	3	185	305	9.0	18	28
MIC1004	10	4	2.381	3	395	590	9.0	26	34
MIC1201	12	1	0.8	3	173	317	11	20	28
MIC1202	12	2	1.588	3	173	317	11	20	28
MIC1202.5	12	2.5	1.588	3	173	317	11	20	28
MIC1203	12	3	1.588	3	173	317	11	20	28
MIC1205	12	5	2.0	3	619	883	17	22	30
MIC1402	14	2	1.588	3	287	633	12	21	23
MIC1602	16	2	1.588	3	253	670	12	25	40
MIC1602.5	16	2.5	1.588	3	253	670	12	25	40
MIC1603	16	3	2.0	3	253	670	12	25	40

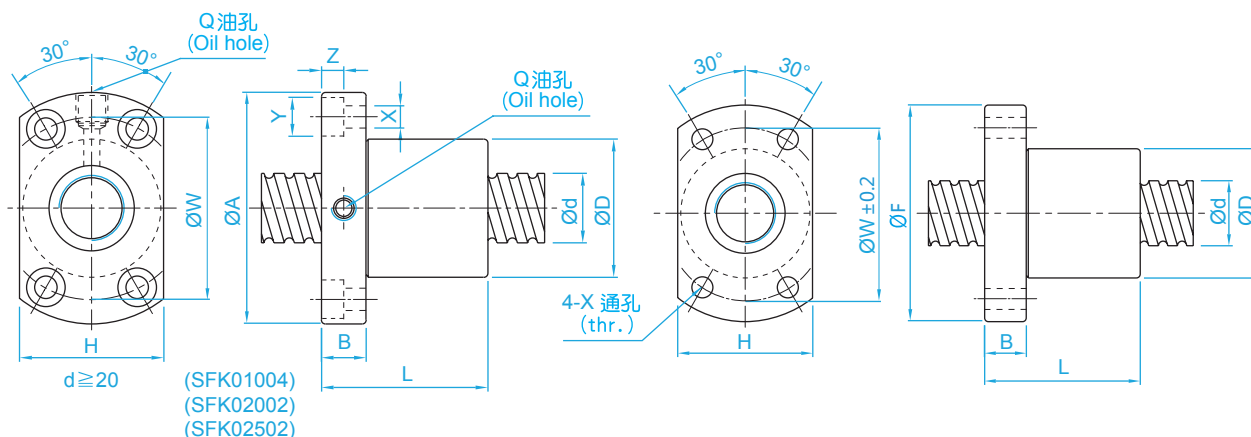
Not: the size and shape of the nut can be made as per customers' requirement.

P: lead . Dw: ball diameter n: number of ball recirculation. K: stiffness (Kgf/μm).  
Ca: basic dynamic rating load (Kgf). Coa: basic static rating load (Kgf). Q: oilhole



# Miniature Ball screw

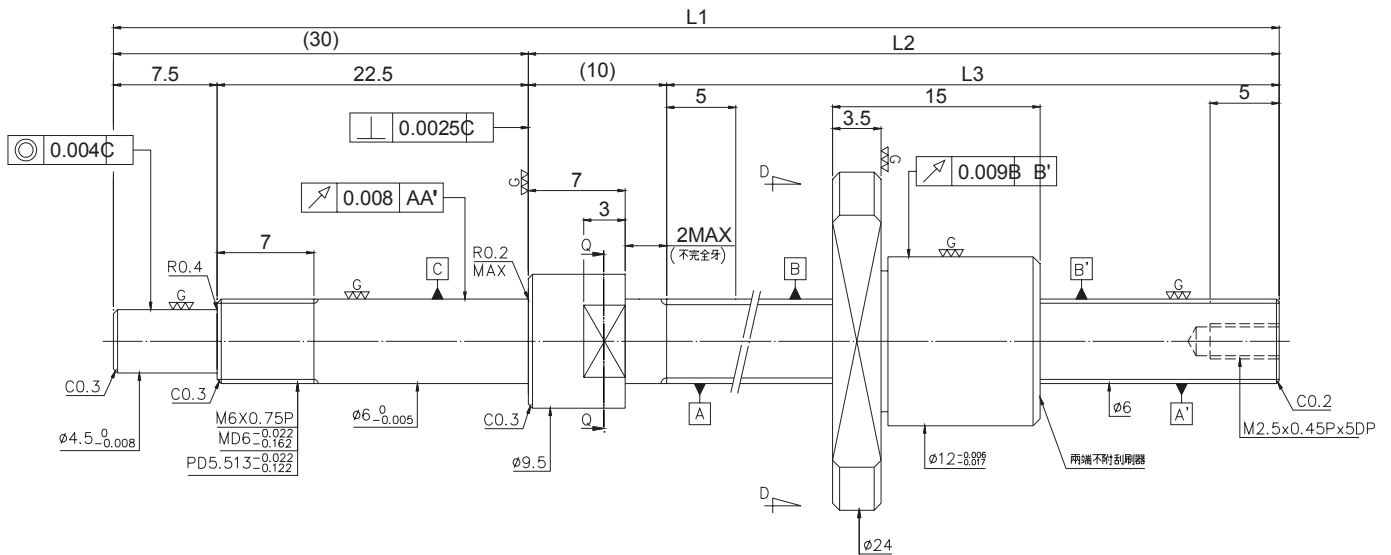
SFK Series



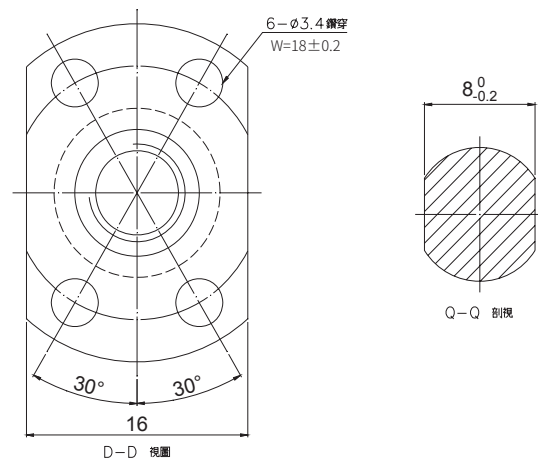
Code	d	P	Dw	Nut Dimension										(Kgf)		(Kgf / $\mu\text{m}$ )	
				D	F	B	L	W	H	X	Y	Z	Q	n	Ca		Coa
SFK0401	4	1	0.8	10	20	3	12	15	14	2.9	-	-	-	1x2	64	97	5
SFK0601	6	1	0.8	12	24	3.5	15	18	16	3.4	-	-	-	1x3	111	224	9
SFK0801	8	1	0.8	14	27	4	16	21	18	3.4	-	-	-	1x4	161	403	14
SFK0802		2	1.2	14	27	4	16	21	18	3.4	-	-	-	1x3	222	458	13
SFK0802.5		2.5	1.2	16	29	4	26	23	20	3.4	-	-	-	1x3	221	457	13
SFK1002	10	2	1.2	18	35	5	28	27	22	4.5	-	-	-	1x3	243	569	15
SFK1004		4	2	26	46	10	34	36	28	4.5	8	4.5	M6	1x3	468	905	17
SFK1202	12	2	1.2	20	37	5	28	29	24	4.5	-	-	-	1x4	334	906	22
SFK1402	14	2	1.2	21	40	6	23	31	26	5.5	-	-	-	1x4	354	1053	24
SFK1602	16	2	1.2	25	43	10	40	35	29	5.5	-	-	M6	1x4	373	1200	26
SFK2002	20	2	1.2	50	80	15	55	65	68	6.5	10.5	6	M6	1x6	581	2284	48
SFK2502	25	2	1.2	50	80	13	43	65	68	6.5	10.5	6	M6	1x5	540	2381	46

Left hand thread are available for above items.

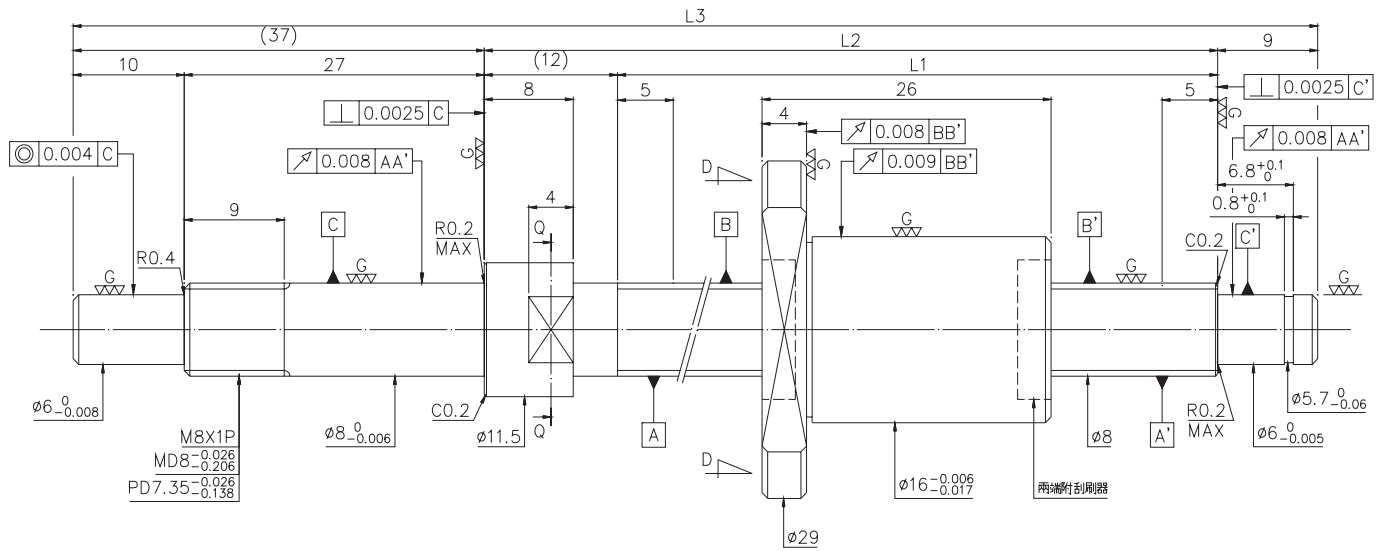
Code	d	P	Dw	Nut Dimension										(Kgf)		(Kgf / $\mu\text{m}$ )	
				D	A	B	L	W	H	X	Y	Z	Q	n	Ca		Coa
XSUR1204T3D-02	12	4	2.5	24	40	6	28	32	25	3.5	-	-	-	1x3	454	722	-
XSUR1205T3D-00		5	2.5	22	37	8	39	29	24	4.5	-	-	-	1x3	675	1316	17



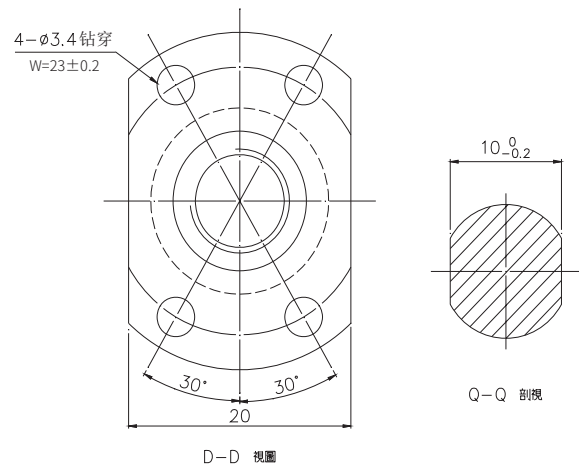
Ball Screw Specification		
Thread direction	LH/RH	
Lead (mm)	1/2	
Lead angle	2.99°	
Section circle diameter (mm)	6.1	
Shaft section circle diameter (mm)	6.1	
Root diameter(mm)	5.261	
Ball Dia(mm)	Φ0.8/Φ1.2	
No of Circuit	1x3	
Basic dynamic rating load (kgf)	66/73	
Basic static rating load (kgf)	111/121	
Axial play(mm)	0	0.005 MAX
Preload torque	0.13 MAX	0.003 MAX



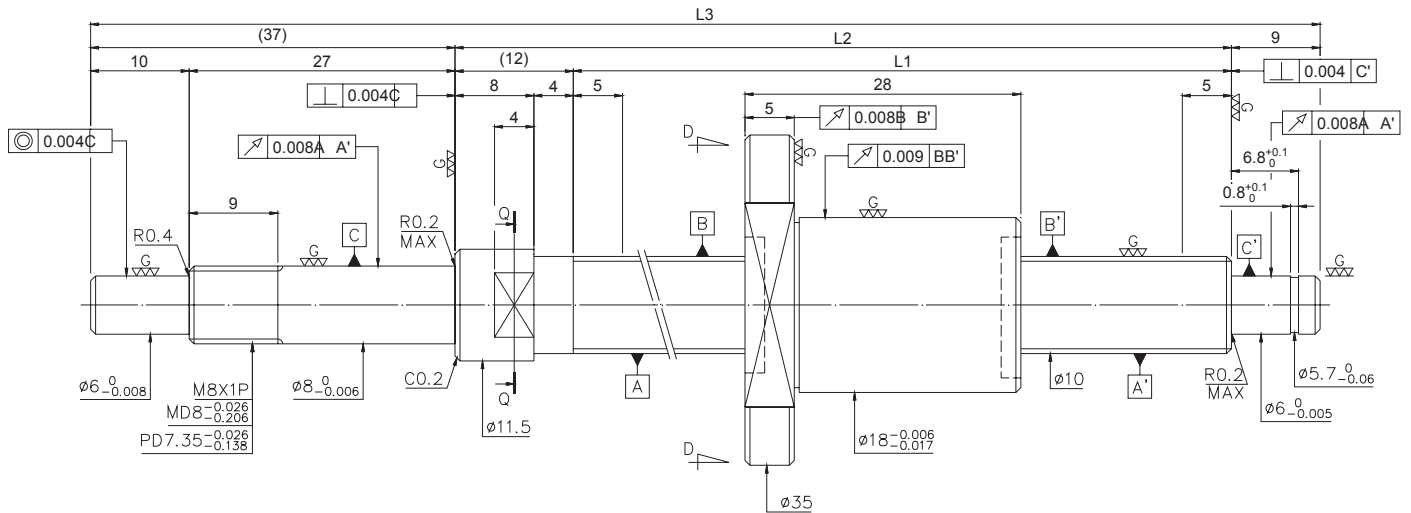
Stroke	Model No	L1	L2	L3	Accuracy grade
40	MIF0601/MIF0602-65x105	65	75	105	C3, C5
70	MIF0601/MIF0602-95x135	95	105	135	C3, C5
100	MIF0601/MIF0602-125x165	125	135	165	C3, C5



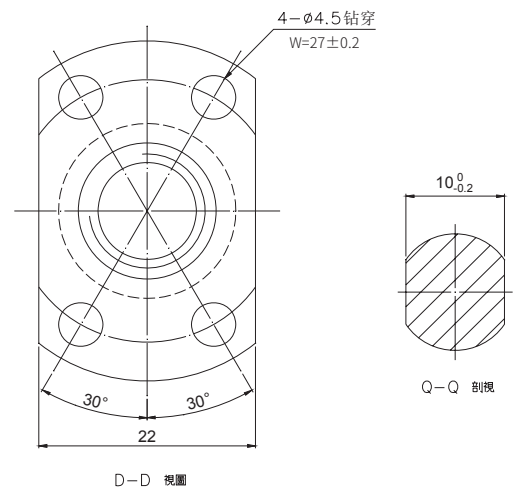
Ball Screw Specification		
Thread direction	LH/RH	
Lead (mm)	1/2	
Lead angle	4.44°	
Section circle diameter (mm)	8.2	
Shaft section circle diameter (mm)	8.2	
Root diameter(mm)	6.652	
Ball Dia(mm)	Φ0.8/Φ1.2	
No of Circuit	1x3	
Basic dynamic rating load (kgf)	161/222	
Basic static rating load (kgf)	403/458	
Axial play(mm)	0	0.005 MAX
Preload torque	0.20 MAX	0.003 MAX



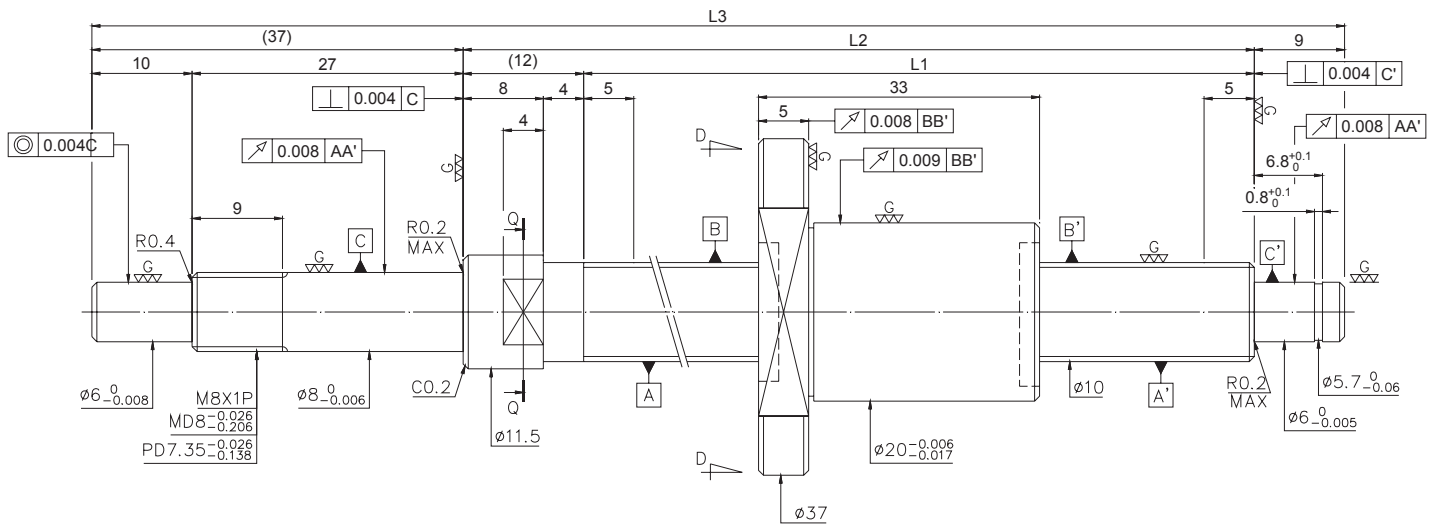
Stroke	Model No	L1	L2	L3	Accuracy grade
40	MIF0801/MIF0802-80x138	80	92	138	C3, C5
70	MIF0801/MIF0802-110x168	110	122	168	C3, C5
100	MIF0801/MIF0802-140x198	140	152	198	C3, C5
150	MIF0801/MIF0802-190x248	190	202	248	C3, C5



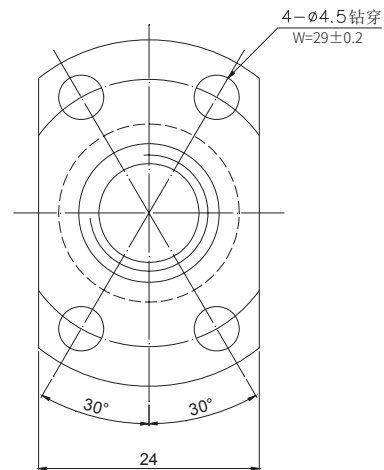
Ball Screw Specification		
Thread direction	LH/RH	
Lead (mm)	2	
Lead angle	3.57°	
Section circle diameter (mm)	10.2	
Shaft section circle diameter (mm)	10.2	
Root diameter(mm)	8.652	
Ball Dia(mm)	Φ1.588	
No of Circuit	1x3	
Basic dynamic rating load (kgf)	243	
Basic static rating load (kgf)	569	
Axial play(mm)	0	0.005 MAX
Preload torque	0.01-0.24	0.05 MAX



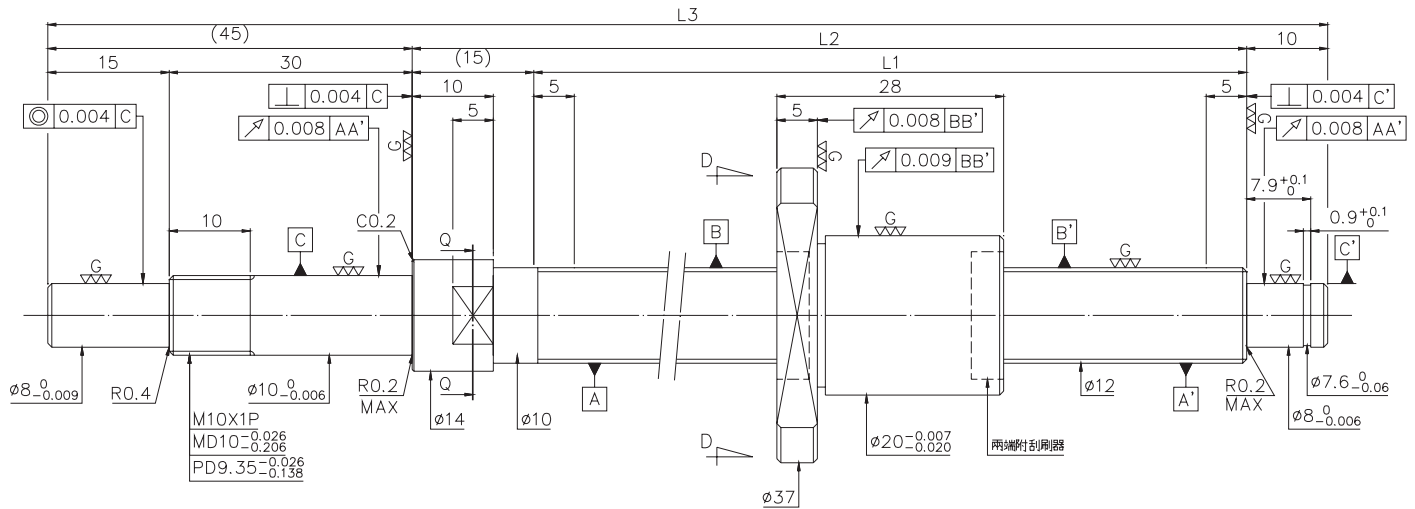
Stroke	Model No	L1	L2	L3	Accuracy grade
50	MIF1002-100x158	100	112	158	C3, C5
100	MIF1002-150x208	150	162	208	C3, C5
150	MIF1002-200x258	200	212	258	C3, C5
200	MIF1002-250x308	250	262	308	C3, C5



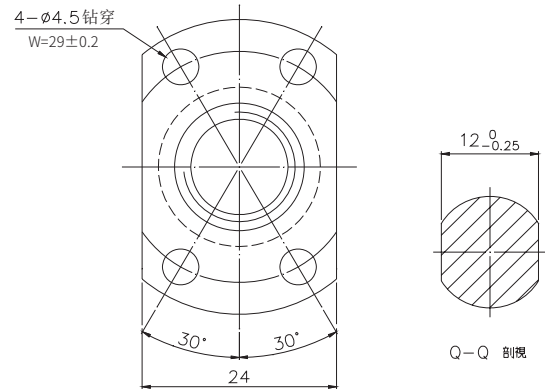
Ball Screw Specification		
Thread direction	LH/RH	
Lead (mm)	4	
Lead angle	7.11°	
Section circle diameter (mm)	10.2	
Shaft section circle diameter (mm)	10.2	
Root diameter(mm)	8.136	
Ball Dia(mm)	Φ2.381	
No of Circuit	1x3	
Basic dynamic rating load (kgf)	468	
Basic static rating load (kgf)	905	
Axial play(mm)	0	0.005 MAX
Preload torque	0.01-0.24	0.05 MAX



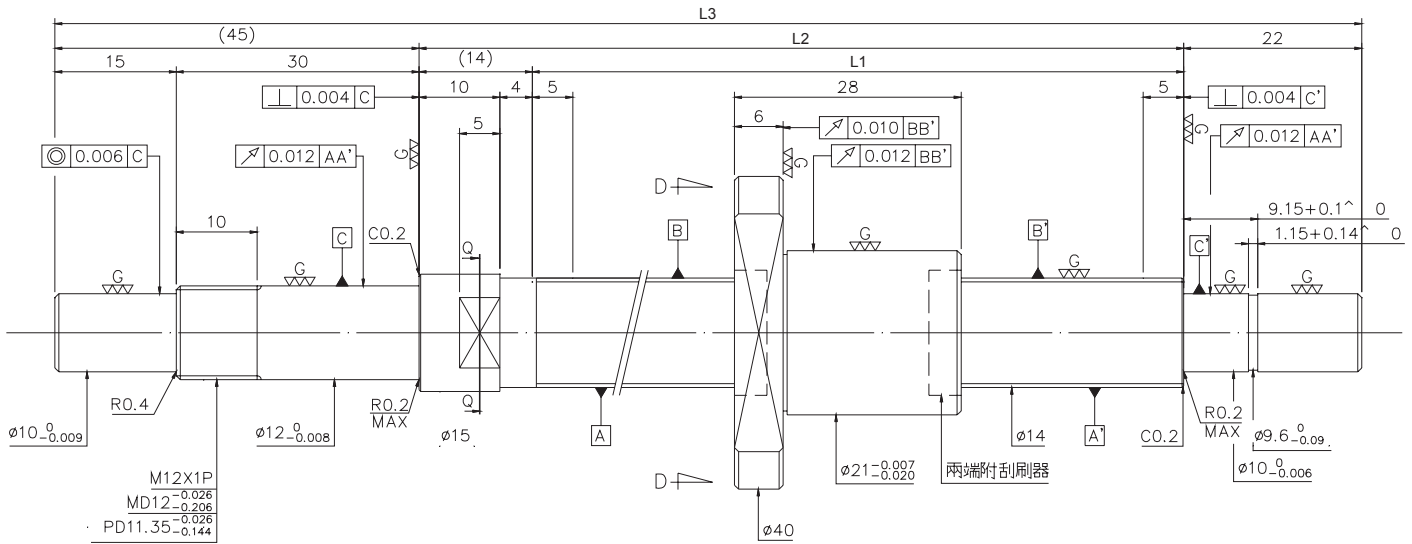
Stroke	Model No	L1	L2	L3	Accuracy grade
50	MIF1004-100x158	100	112	158	C3, C5
100	MIF1004-150x208	150	162	208	C3, C5
150	MIF1004-200x258	200	212	258	C3, C5
200	MIF1004-250x308	250	262	308	C3, C5



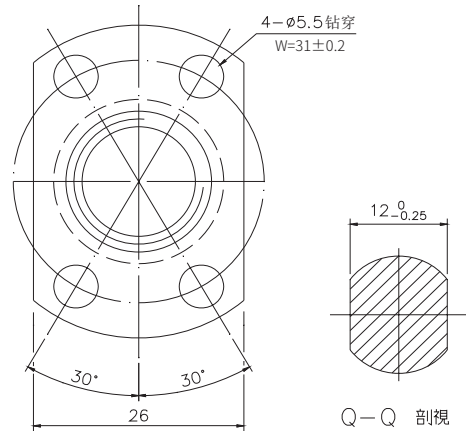
Ball Screw Specification	
Thread direction	LH/RH
Lead (mm)	2
Lead angle	2.99°
Section circle diameter (mm)	12.2
Shaft section circle diameter (mm)	12.2
Root diameter(mm)	10.625
Ball Dia(mm)	Φ1.588
No of Circuit	1x3
Basic dynamic rating load (kgf)	334
Basic static rating load (kgf)	802
Axial play(mm)	0      0.005 MAX
Preload torque	0.04-0.35      0.2 MAX



Stroke	Model No	L1	L2	L3	Accuracy grade
50	MIF1202-110x180	110	125	180	C3, C5
100	MIF1202-160x230	160	175	230	C3, C5
150	MIF1202-210x280	210	225	280	C3, C5
200	MIF1202-260x330	260	275	330	C3, C5
250	MIF1202-310x380	310	325	380	C5
290	MIF1202-350x420	350	365	420	C5
345	MIF1202-405x475	405	420	475	C5



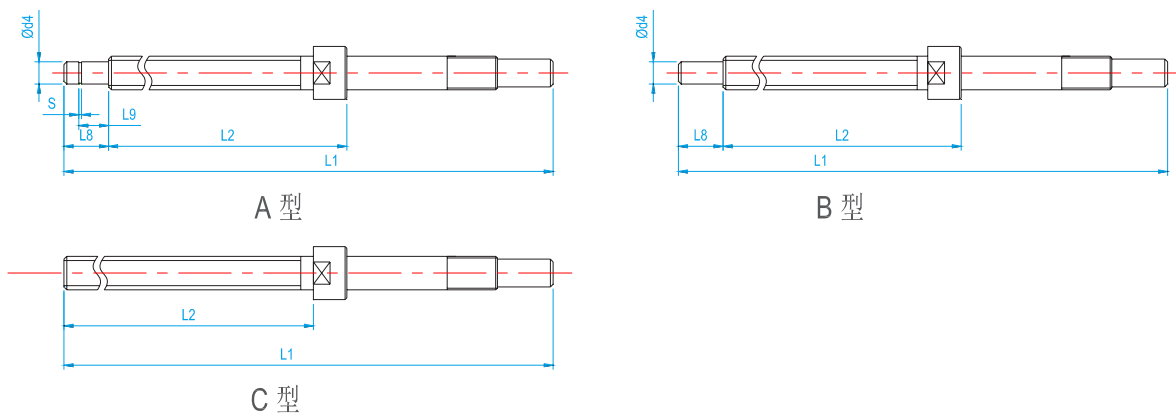
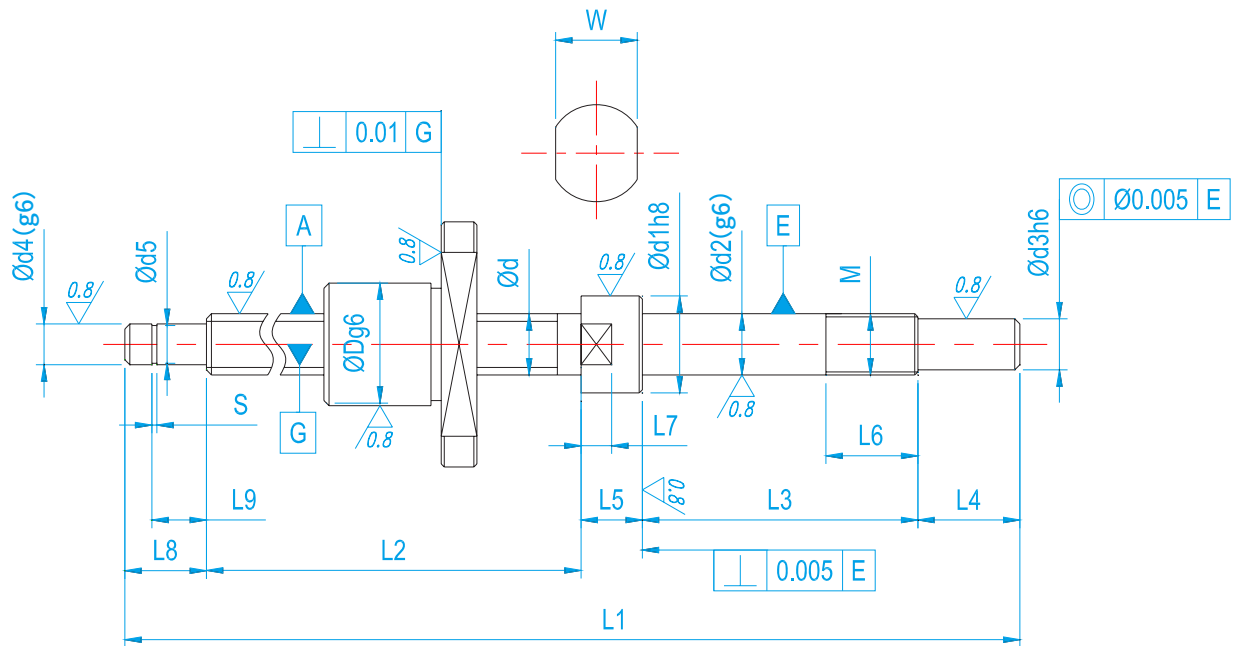
Ball Screw Specification		
Thread direction	LH/RH	
Lead (mm)	2	
Lead angle	2.57°	
Section circle diameter (mm)	14.2	
Shaft section circle diameter (mm)	14.2	
Root diameter(mm)	12.625	
Ball Dia(mm)	Φ1.588	
No of Circuit	1x3	
Basic dynamic rating load (kgf)	354	
Basic static rating load (kgf)	1083	
Axial play(mm)	0	0.005 MAX
Preload torque	0.05-0.5	-



Stroke	Model No	L1	L2	L3	Accuracy grade
50	MIF1402-148x230	148	163	230	C3, C5
100	MIF1402-198x280	198	213	280	C3, C5
150	MIF1402-248x330	248	263	330	C3, C5
200	MIF1402-348x430	348	363	430	C3, C5
300	MIF1402-448x530	448	463	530	C5

# Miniature Ball screw

Suggested End Machining of Screw Shaft



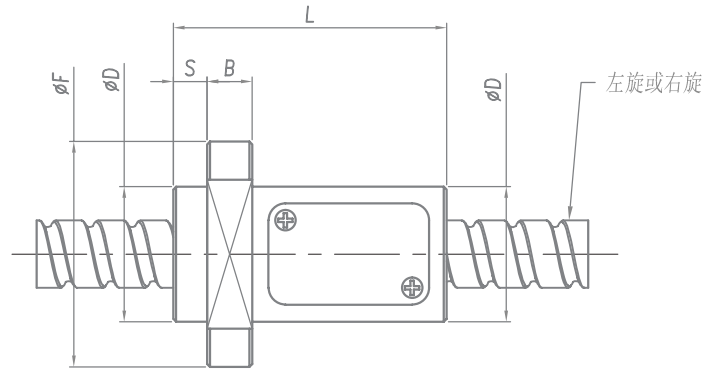
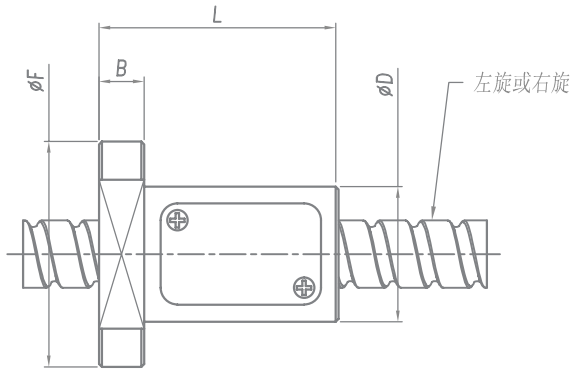
d	Fixed End A type B type C type											Support end							
												A type							
	B type			/															
	d1	L5	L7	W	d2	L3	M	L6	d3	L4	d4	L8	d5	S	L9				
4	6	$\begin{matrix} 0 \\ -0.018 \end{matrix}$	6	2.5	5	4	$\begin{matrix} -0.004 \\ -0.012 \end{matrix}$	18	M4x0.5	6.5	3	$\begin{matrix} 0 \\ -0.006 \end{matrix}$	5	3	$\begin{matrix} -0.002 \\ -0.010 \end{matrix}$	7	2.7	0.5	4.35
6	8	$\begin{matrix} 0 \\ -0.022 \end{matrix}$	7	3	7	5	$\begin{matrix} -0.004 \\ -0.012 \end{matrix}$	19	M5x0.5	6.5	4	$\begin{matrix} 0 \\ -0.008 \end{matrix}$	6	4	$\begin{matrix} -0.002 \\ -0.012 \end{matrix}$	8	3.7	0.5	5.35
8	9.5	$\begin{matrix} 0 \\ -0.022 \end{matrix}$	7	3	8	6	$\begin{matrix} -0.005 \\ -0.014 \end{matrix}$	22.5	M6x0.75	7	4.5	$\begin{matrix} 0 \\ -0.008 \end{matrix}$	7.5	6	$\begin{matrix} -0.002 \\ -0.012 \end{matrix}$	9	5.7	0.8	6.8
10	11.5	$\begin{matrix} 0 \\ -0.027 \end{matrix}$	8	4	10	8	$\begin{matrix} -0.005 \\ -0.014 \end{matrix}$	27	M8x1.0	9	6	$\begin{matrix} 0 \\ -0.008 \end{matrix}$	10	6	$\begin{matrix} -0.002 \\ -0.012 \end{matrix}$	9	5.7	0.8	6.8
12	14	$\begin{matrix} 0 \\ -0.027 \end{matrix}$	10	5	12	10	$\begin{matrix} -0.006 \\ -0.017 \end{matrix}$	30	M10x1.0	10	8	$\begin{matrix} 0 \\ -0.009 \end{matrix}$	15	8	$\begin{matrix} -0.004 \\ -0.012 \end{matrix}$	10	7.6	0.9	7.9
14	15	$\begin{matrix} 0 \\ -0.027 \end{matrix}$	10	5	12	12	$\begin{matrix} -0.006 \\ -0.017 \end{matrix}$	30	M12x1.0	10	10	$\begin{matrix} 0 \\ -0.009 \end{matrix}$	15	10	$\begin{matrix} -0.004 \\ -0.012 \end{matrix}$	12	9.6	1.15	9.15
16	16	$\begin{matrix} 0 \\ -0.027 \end{matrix}$	10	5	12	12	$\begin{matrix} -0.006 \\ -0.017 \end{matrix}$	30	M12x1.0	10	10	$\begin{matrix} 0 \\ -0.009 \end{matrix}$	15	10	$\begin{matrix} -0.004 \\ -0.012 \end{matrix}$	12	9.6	1.15	9.15

Notes: Customized end machining is available upon request



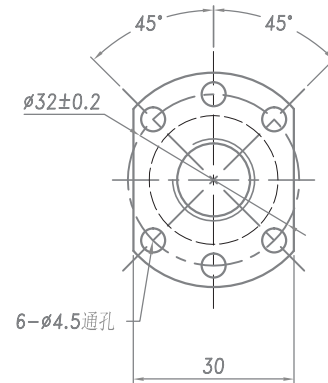
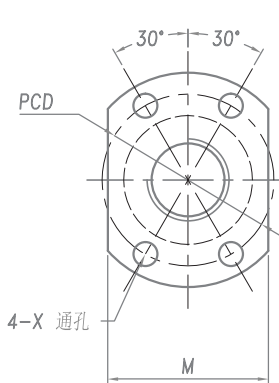
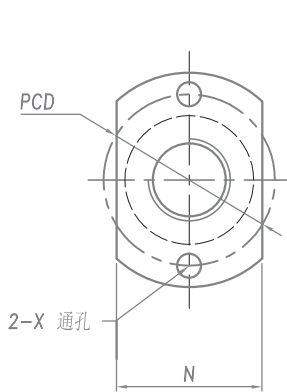
# Miniature Ball screw

Large lead high speed series

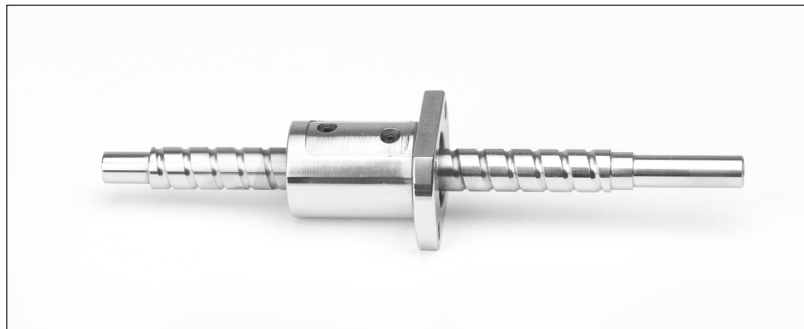


MPF0804 MPF0805 MPF1208 MPF1210

MPF0808 MPF1010



MPF0808 MPF1010



**mibs**

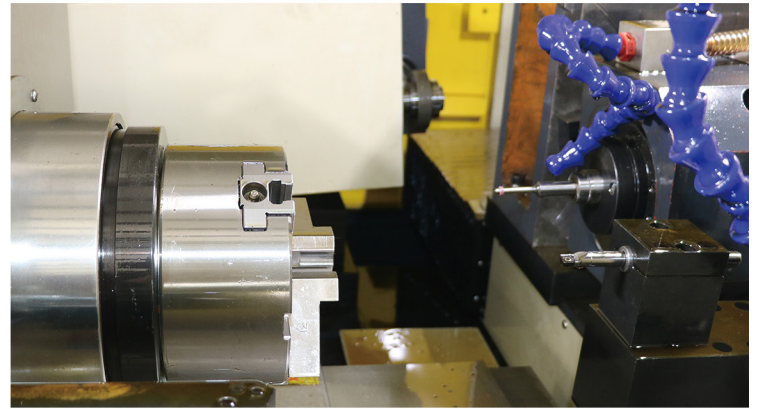
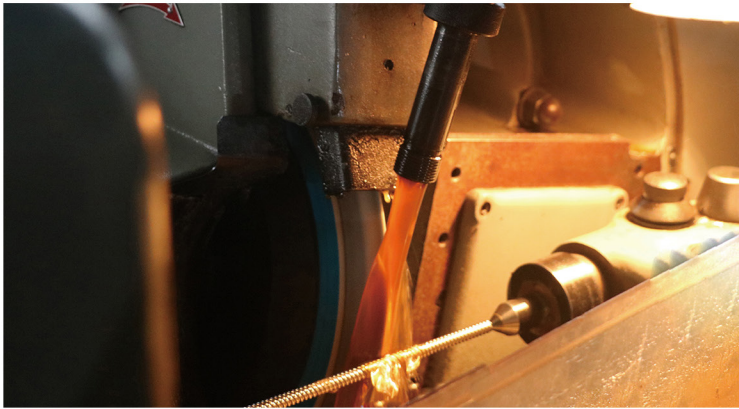
**NEW**

No	Model No	d	P	Da	No. of Circuit	loading(N)		Stiffness N/ $\mu$ m(K)	Nut size									
						Ca	Coa		D	F	L	S	PCD	B	No of mounting holes			X
															2孔 (N)	4孔 (M)	6孔	
1	MPF0804	8	4	2.0	3.5	2300	3900	87	21	39	28	/	31	5	23	23	/	$\phi 4.5$
2	MPF0805	8	5	1.588	2.5	1850	2960	85	18	31	28	/	25	4	20	20	/	$\phi 3.4$
3	MPF0808	8	8	1.588	2.5	1700	3400	85	18	31	30	6	25	4	/	20	/	$\phi 3.4$
4	MPF1010	10	10	2.0	2.5	2470	4600	92	23	40	27	6	32	6	/	25	/	$\phi 4.5$
5	MPF1208	12	8	2.381	2.5	2840	5190	210	24	40	42	/	32	10	/	/	30	$\phi 4.5$
6	MPF1210	12	10	2.5	2.8	6420	12870	190	24	40	48.5	/	32	10	/	/	30	$\phi 4.5$

Notes: Customized end machining is available upon request



SCREWTECH  
斯科勒自动化



New metal cover plate deflector, precision large lead micro ball screw is now on the market. It realizes the low noise, high speed and miniaturization.

Bring the future to the world.

---





苏州斯科勒自动化设备有限公司  
SCREW TECHNOLOGY CO.,Limited

Add.: No 988,Wusong Road,Wuzhong District,Suzhou,China

Tel:+86 15862406535

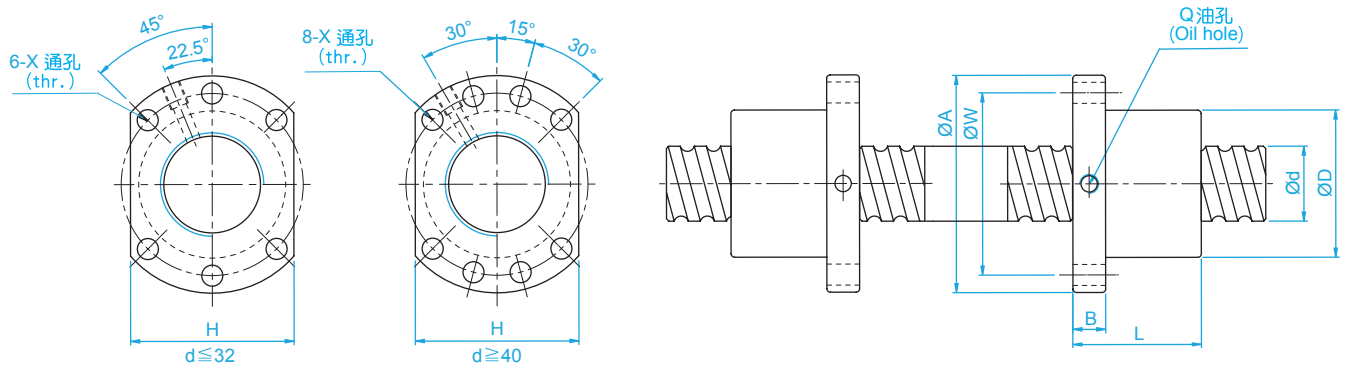
Email:kathy@screwtech.cn

<http://www.screw-tech.com/>

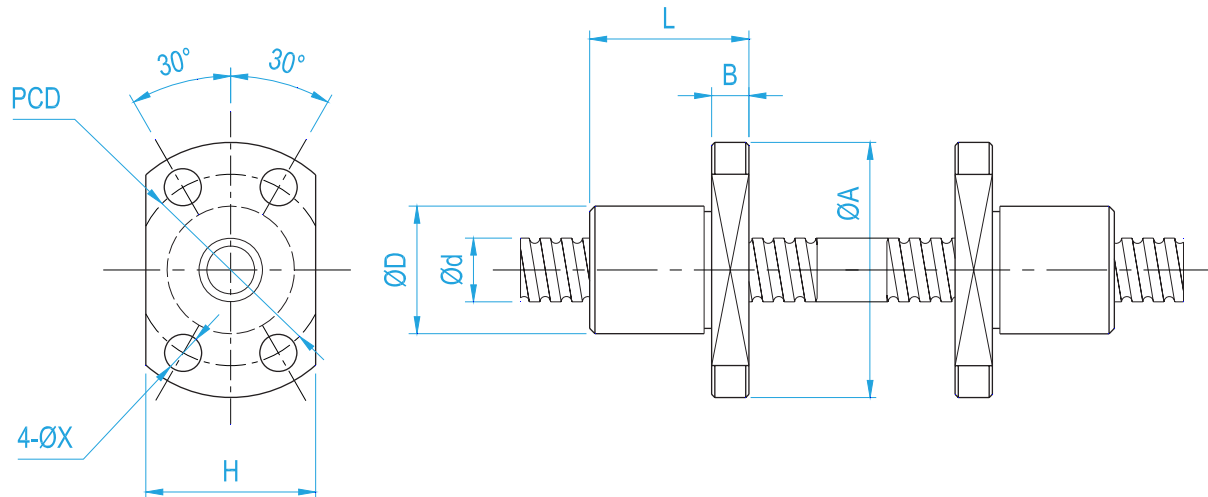
# Bi-Directional Ball Screw



**SCREWTECH**  
斯科勒自动化



Code	d	P	Dw	Nut Dimension									(Kgf)		(Kgf/ µm)
				D	A	B	L	W	H	X	Q	n	Ca	Coa	
SFU1204-4	12	4	2.5	24	40	10	40	32	30	4.5		1x4	902	1884	26
SFU1604-4	16	4	2.381	28	48	10	40	38	40	5.5	M6	1x4	973	2406	32
SFU1605-4		5	3.175	28	48	10	50	38	40	5.5	M6	1x4	1380	3052	32
SFU1610-3		10	3.175	28	48	10	57	38	40	5.5	M6	1x3	1103	2401	26
SFU2004-4	20	4	2.381	36	58	10	42	47	44	6.6	M6	1x4	1066	2987	38
SFU2005-4		5	3.175	36	58	10	51	47	44	6.6	M6	1x4	1551	3875	39
SFU2504-4	25	4	2.381	40	62	10	42	51	48	6.6	M6	1x4	1180	3795	43
SFU2505-4		5	3.175	40	62	10	51	51	48	6.6	M6	1x4	1724	4904	45
SFU2506-4		6	3.969	40	62	10	54	51	48	6.6	M6	1x4	2318	6057	47
SFU2508-4		8	4.762	40	62	10	63	51	48	6.6	M6	1x4	2963	7313	49
SFU2510-4		10	4.762	40	62	12	85	51	48	6.6	M6	1x4	2954	7295	50
SFU3204-4	32	4	2.681	50	80	12	44	65	62	9	M6	1x4	1296	4838	51
SFU3205-4		5	3.175	50	80	12	52	65	62	9	M6	1x4	1922	6343	54
SFU3206-4		6	3.969	50	80	12	57	65	62	9	M6	1x4	2632	7979	57
SFU3208-4		8	4.762	50	80	12	65	65	62	9	M6	1x4	3387	9622	60
SFU3210-4		10	6.35	50	80	12	90	65	62	9	M6	1x4	4805	12208	61
SFU4005-4	40	5	3.175	63	93	14	55	78	70	9	M8	1x4	2110	7988	63
SFU4006-4		6	3.969	63	93	14	60	78	70	9	M6	1x4	2873	9913	66
SFU4008-4		8	4.762	63	93	14	67	78	70	9	M6	1x4	3712	11947	70
SFU4010-4		10	6.35	63	93	14	93	78	70	9	M8	1x4	5399	15500	73
SFU5010-4	50	10	6.35	75	110	16	93	93	85	11	M8	1x4	6004	19614	85

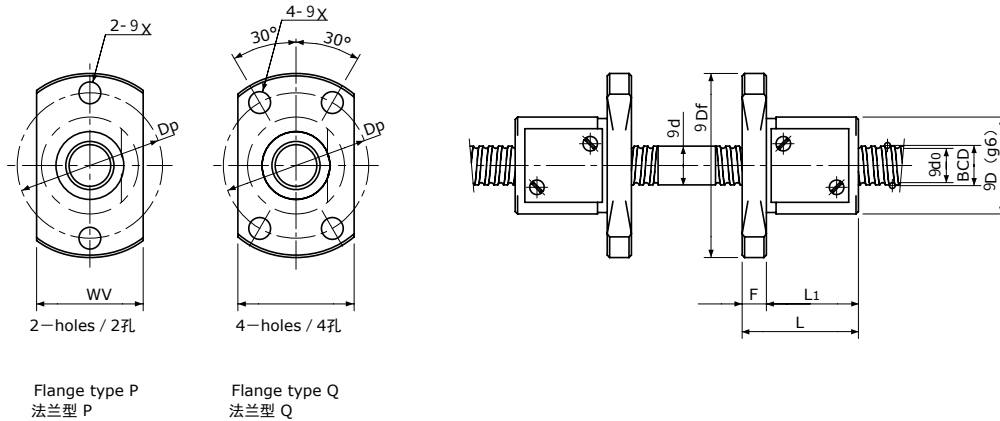


Code	d	P	Dw	n	Ca	Coa	K	Nut Dimension									
								D	A	B	L	PCD	H	X	Y	Z	Q
MIF0801	8	1	0.8	4	161	403	14	14	27	4	16	21	18	3.4	/	/	/
MIF0802	8	2	1.2	3	222	458	13	14	27	4	16	21	18	3.4	/	/	/
MIF0802.5	8	2.5	1.2	3	221	457	13	16	29	4	26	23	20	3.4	/	/	/
MIF1002	10	2	1.588	3	243	569	15	18	35	5	28	27	22	4.5	/	/	/
MIF1003	10	3	2.0	3	245	570	15	20	35	5	30	27	22	4.5	/	/	/
MIF1004	10	4	2.381	3	468	905	17	22	46	10	38	36	28	4.5	/	/	/
MIF1201	12	1	0.8	3	173	317	15	20	37	5	28	29	24	4.5	/	/	/
MIF1202	12	2	1.588	3	334	902	22	20	37	5	28	29	24	4.5	/	/	/
MIF1202.5	12	2.5	1.2	3	355	981	22	20	37	5	28	29	24	4.5	/	/	/
MIF1203	12	3	3	3	365	990	22	20	37	5	28	29	24	4.5	/	/	/

Not: the size and shape of the nut can be made as per customers' requirement.

P: lead . Dw: ball diameter n: number of ball recirculation. K: stiffness (Kgf/μm).  
Ca: basic dynamic rating load (Kgf). Coa: basic static rating load (Kgf).

# Bi-Directional Ball Screw



Ball Nut Model number	Shaft nominal dia.	Lead	Ball size	BCD	Lead angle	Root dia.	Number of Circuit	Basic Load Rating		Nut Rigidity
								Dynamic	Static	
0401	4	1	0.6	4.15	4° 23'	3.4	1x3	300/300	430/430	38/59
0501	5	1	0.6	5.15	3° 32'	4.4	1x3	330/330	560/560	45/70
0601	6	1	0.8	6.20	2° 56'	5.3	1x3	560/560	950/950	55/86
0801	8	1	0.8	8.20	2° 13'	7.3	1x3	650/650	1300/1300	70/109
0801.5		1.5	1.0	8.30	3° 18'	7.2	1x3	890/890	1650/1650	73/113
0802		2	1.2	8.30	4° 23'	7.0	1x3	1300/1300	2300/2300	77/121
1001	10	1	0.8	10.20	1° 47'	9.3	1x3	720/720	1650/1650	84/131
1001.5		1.5	1.0	10.30	2° 39'	9.2	1x3	990/990	2100/2100	87/136
1002		2	1.2	10.30	3° 32'	9.0	1x3	1450/1450	3000/3000	93/144
1002.5		2.5	1.5875	10.40	4° 23'	8.7	1x3	2100/2100	3800/3800	96/150
1003		3	2.0	10.30	5° 18'	8.2	3.7x1	3900/2500	7200/3600	140/118
1004		4	2.0	10.30	7° 03'	8.2	2.7x1	3000/1800	5200/2600	104/86
1005	5	2.0	10.30	8° 47'	8.2	2.7x1	3000/1800	5200/2600	103/85	
1201	12	1	0.8	12.20	1° 30'	11.3	1x3	780/780	2000/2000	97/152
1202		2	1.2	12.30	2° 58'	11.0	1x3	1600/1600	3700/3700	109/169
1202.5		2.5	1.5875	12.40	3° 41'	10.7	1x3	2300/2300	4700/4700	112/174
1203		3	2.0	12.50	4° 22'	10.4	1x3	3100/3100	5700/5700	115/179
1204		4	2.381	12.30	5° 55'	9.8	3.7x1	5400/3400	10200/5100	165/139
1401	14	1	0.8	14.15	1° 17'	13.3	3.7x1	960/610	2900/1450	148/124
1402		2	1.2	14.30	2° 33'	13.0	1x3	1700/1700	4300/4300	122/190
1402.5		2.5	1.5875	14.40	3° 10'	12.7	1x3	2500/2500	5600/5600	127/197
1403		3	2.0	14.50	3° 46'	12.4	1x3	3400/3400	6800/6800	131/204
1404		4	2.381	14.65	4° 58'	11.9	1x3	4500/4500	8600/8600	136/212
1405		5	2.381	14.30	6° 21'	11.8	3.7x1	5700/3600	11600/5800	186/157
1601	16	1	0.8	16.15	1° 08'	15.3	3.7x1	1000/640	3300/1650	164/138
1602		2	1.2	16.30	2° 15'	15.0	1x3	1850/1850	5000/5000	137/213
1603		3	2.0	16.50	3° 19'	14.4	1x3	3600/3600	8000/8000	146/227
1604		4	2.381	16.65	4° 22'	13.9	1x3	4800/4800	10000/10000	152/237
1605		5	3.175	16.50	5° 31'	13.2	3.7x1	9100/5700	18200/9100	217/182

Note 1) The diameter of the Screw Shaft both ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.

Note 2) Ball Nut dimension is without seal at the both ends.

If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS.

Some type of Ball Nuts cannot equip with seals, please ask KSS representative.

Note 3) The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.

Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.

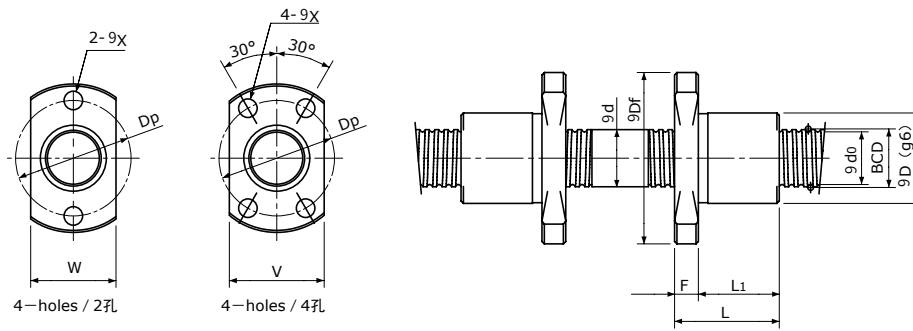
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.

For Axial load or Preload condition other than the above, see the formula in p-A823, you can calculate Rigidity using this formula.

Note 4) Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.



# Bi-Directional Ball Screw



Flange type P  
法兰型 P

Flange type Q  
法兰型 Q

Nut dimension											Ball Nut Model number
Nut type	D	Df	L	L <sub>1</sub>	F	W	V	Dp	Bolt Hole	Flange Type	
2	9	19	13	10	3	11	13	14	2.9	P,Q	0401
2	10	20	13	10	3	12	14	15	2.9	P,Q	0501
2	11	23	14.5	11	3.5	13	15	17	3.4	P,Q	0601
2	13	26	15	11	4	15	17	20	3.4	P,Q	0801
2	15	28	20	16	4	17	19	22	3.4	P,Q	0801.5
2	15	28	18	14	4	17	19	22	3.4	P,Q	0802
2	15	28	15	11	4	17	19	22	3.4	P,Q	1001
2	17	34	21	16	5	19	21	26	4.5	P,Q	1001.5
2	17	34	19	14	5	19	21	26	4.5	P,Q	1002
2	18	35	21	16	5	20	22	27	4.5	P,Q	1002.5
1	24	44	30	24	6	26	27	35	5.5	P,Q	1003
1	24	44	29	23	6	26	27	35	5.5	P,Q	1004
1	24	44	34	28	6	26	27	35	5.5	P,Q	1005
2	17	34	16	11	5	19	21	26	4.5	P,Q	1201
2	19	36	19	14	5	21	23	28	4.5	P,Q	1202
2	20	37	21	16	5	22	24	29	4.5	P,Q	1202.5
2	22	41	32	26	6	24	26	32	5.5	P,Q	1203
1	28	48	33	27	6	30	30	39	5.5	P,Q	1204
1	26	46	21	15	6	28	28	37	5.5	P,Q	1401
2	21	40	20	14	6	23	26	31	5.5	P,Q	1402
2	22	41	22	16	6	24	26	32	5.5	P,Q	1402.5
2	24	43	32	26	6	26	27	34	5.5	P,Q	1403
2	26	45	29	23	6	28	28	36	5.5	P,Q	1404
1	30	51	39	33	6	32	32	42	5.5	P,Q	1405
1	28	48	21	15	6	30	30	39	5.5	P,Q	1601
2	24	43	20	14	6	26	27	34	5.5	P,Q	1602
2	26	45	32	26	6	28	28	36	5.5	P,Q	1603
2	28	47	29	23	6	30	30	38	5.5	P,Q	1604
1	38	57	42	36	6	40	40	48	5.5	P,Q	1605

苏州斯科勒自动化设备有限公司  
SCREW TECHNOLOGY CO.,Limited

Add.: No 988,Wusong Road,Wuzhong District,Suzhou,China

Tel:+86 15862406535

Email:kathy@screwtech.cn

<http://www.screw-tech.com/>

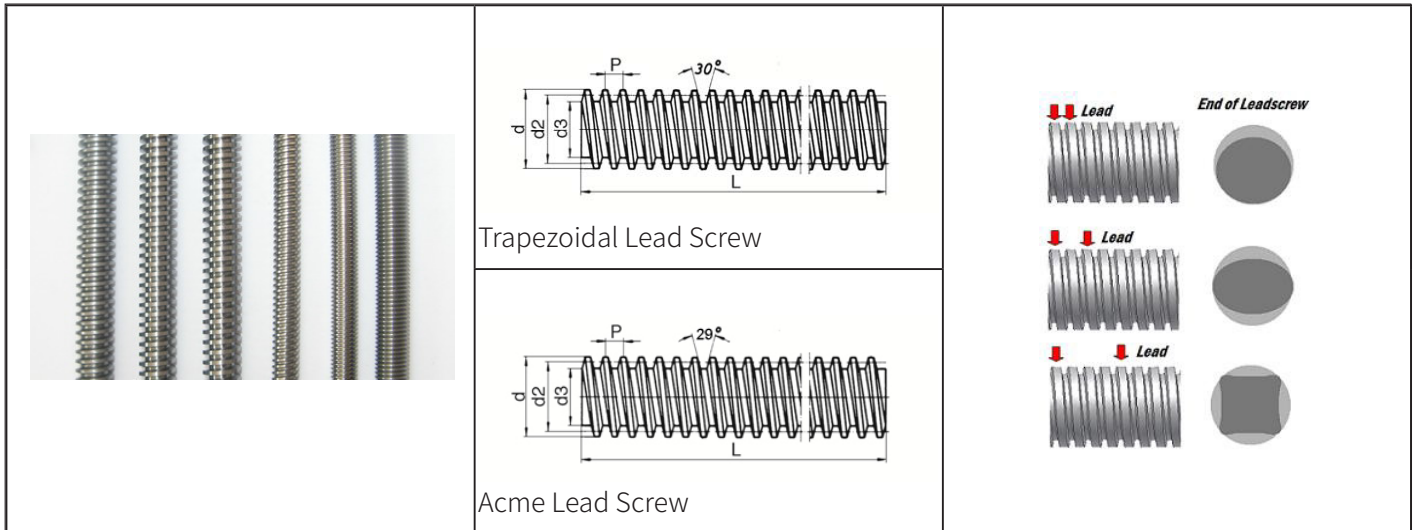
# Lead Screw



**SCREWTECH**  
斯科勒自动化

# Lead Screw

## Trapezoidal /Acme Lead Screw



### Note:

1. Material: 1045 Carbon Steel, SUS303, SUS304 or others.
2. 2 starts, 3 starts, 4 starts and more are all available.
3. Major diameter: 2mm-200mm, Lead: 1mm-22mm.
4. Max length: 6 meters.
5. Left hand thread is available upon request.
6. Acme thread, square metric and other non-standard thread profiles are available upon drawings.
7. Higher Precision Grade is available upon request.

### Standard: ISO2901-4, DIN103, GB/5796, Standard Clearance: 7e.

Unit: mm

Code	Pitch	d		d2		d3		Pitch Error (mm/300mm)	Straightness (mm/300mm)
		Max	Min	Max	Min	Max	Min		
Tr8x1.5	1.5	8	7.85	7.18	7.01	6.29	5.92	0.2	0.3
Tr10x1.5	1.5	10	9.85	9.18	9.01	8.20	7.92	0.2	0.3
Tr10x2	2		9.82	8.93	8.74	7.50	6.89	0.2	0.3
Tr10x3	3		9.80	8.42	8.19	6.50	6.15	0.2	0.3
Tr10x4	2		9.82	8.93	8.74	7.50	6.89	0.3	0.3
Tr12x2	2	12	11.82	10.93	9.84	9.58	8.89	0.2	0.3
Tr12x3	3		11.76	10.42	10.19	8.50	7.69	0.2	0.3
Tr12x6	3		11.76	10.42	10.19	8.50	7.69	0.3	0.3
Tr14x2	2	14	13.82	12.93	12.73	11.5	11.18	0.2	0.3
Tr14x3	3		13.76	12.42	12.19	10.5	10.07	0.2	0.3
Tr14x4	4		13.80	11.91	11.64	9.50	8.80	0.2	0.3
Tr14x6	3		13.76	12.42	12.16	10.5	9.68	0.3	0.3
Tr16x2	2	16	15.82	14.93	14.73	13.5	13.12	0.1	0.3
Tr16x4	4		15.70	13.91	13.64	11.5	10.47	0.1	0.3
Tr16x8	4		15.70	13.91	13.61	11.5	10.47	0.2	0.3
Code	Pitch (mm)	d (mm)		d2 (mm)		d3 (mm)		Pitch Error (mm/300mm)	Straightness (mm/300mm)
		Max	Min	Max	Min	Max	Min		

# Lead Screw

Code	Pitch (mm)	d (mm)		d2 (mm)		d3 (mm)		Pitch Error (mm/300mm)	Straightness (mm/300mm)
		Max	Min	Max	Min	Max	Min		
Tr18x2	2	18	17.82	16.93	16.73	15.5	15.12	0.1	0.3
Tr18x4	4		17.70	15.91	15.64	13.5	12.47	0.1	0.3
Tr18x8	4		17.43	15.91	15.61	13.5	12.47	0.2	0.3
Tr20x2	2	20	19.82	18.93	18.73	17.5	17.18	0.1	0.3
Tr20x4	4		19.70	17.91	17.64	15.5	14.47	0.1	0.3
Tr20x8	4		19.70	17.90	17.61	15.5	14.47	0.2	0.3
Tr22x3	3	22	21.76	20.41	20.19	18.5	18.14	0.1	0.2
Tr22x5	5		21.66	19.39	19.11	16.5	15.29	0.1	0.2
Tr22x8	4		21.70	19.90	19.61	17.5	16.47	0.2	0.2
Tr22x10	5		21.66	19.39	19.08	16.5	15.29	0.2	0.2
Tr24x3	3	24	23.76	22.41	22.17	20.5	20.14	0.1	0.2
Tr24x5	5		23.66	21.39	21.09	18.5	17.27	0.1	0.2
Tr24x10	5		23.66	21.39	21.06	18.5	17.27	0.2	0.2
Tr26x3	3	26	25.76	24.41	24.17	22.5	20.14	0.1	0.2
Tr26x5	5		25.67	23.39	23.09	20.5	19.27	0.1	0.2
Tr26x8	4		25.50	21.87	21.49	17.0	16.40	0.1	0.2
Tr26x10	5		25.67	23.39	23.09	20.5	19.27	0.2	0.2
Tr28x3	3	28	27.76	26.41	26.17	24.5	24.10	0.1	0.2
Tr28x5	5		27.67	25.39	25.09	22.5	21.27	0.1	0.2
Tr28x10	5		27.67	25.39	25.06	22.5	21.27	0.2	0.2
Tr30x3	3	30	29.76	28.41	28.17	26.5	26.4	0.1	0.2
Tr30x6	6		29.63	26.88	26.55	23.0	21.56	0.2	0.2
Tr30x12	6		29.63	26.88	26.51	23.0	21.56	0.1	0.2
Tr32x3	3	32	31.76	30.50	30.25	28.5	28.10	0.1	0.2
Tr32x5	5		31.67	29.39	29.09	26.5	25.27	0.1	0.2
Tr32x6	6		31.63	28.88	28.55	25.0	23.56	0.1	0.2
Tr32x12	6		31.63	28.88	28.51	25.0	23.56	0.2	0.2
Tr36x6	6	36	35.63	32.88	32.55	29.0	27.56	0.1	0.2
Tr36x12	6		35.63	32.88	32.51	29.0	27.56	0.2	0.2
Tr40x7	7	40	39.58	36.38	36.02	32.0	30.38	0.1	0.2
Tr40x14	7		39.58	36.38	35.98	32.0	30.38	0.2	0.2
Tr44x7	7	44	43.57	40.37	40.02	36.0	34.38	0.1	0.2
Tr44x12	12		43.40	37.84	37.42	31.0	30.18	0.1	0.2
Tr44x14	7		43.57	40.37	39.98	36.0	34.38	0.2	0.2
Tr50x8	8	50	49.55	45.87	45.47	41.0	39.17	0.1	0.2
Tr50x12	12		49.40	43.84	43.37	37.0	36.25	0.1	0.2
Tr55x9	9	55	54.50	55.36	49.94	45.0	42.98	0.1	0.2
Tr55x14	14		54.33	47.82	47.32	39.0	38.20	0.1	0.2
Tr60x9	9	60	59.50	55.36	54.94	50.0	47.98	0.1	0.2
Tr60x14	14		59.33	52.82	52.32	44.0	43.20	0.1	0.2
Code	Pitch (mm)	d (mm)		d2 (mm)		d3 (mm)		Max Pitch Error (mm/300mm)	Straightness (mm/300mm)
		Max	Min	Max	Min	Max	Min		

# Lead Screw

Code	Pitch	d		d2		d3		Max Pitch Error (mm/300mm)	Straightness (mm/300mm)
		Max	Min	Max	Min	Max	Min		
Tr70x10	10	70	69.47	64.85	64.43	59.0	56.82	0.1	0.4
Tr70x16	16		69.29	61.81	61.28	52.0	51.15	0.1	0.4
Tr80x10	10	80	79.47	74.85	74.43	69.0	66.82	0.1	0.4
Tr80x16	16		79.29	71.81	71.28	62.0	61.15	0.1	0.4
Tr90x12	12	90	89.40	83.84	83.37	77.0	74.45	0.1	0.5
Tr90x18	18		89.20	80.80	80.24	70.0	69.10	0.1	0.5
Tr95x12	12	95	94.4	88.84	88.34	82.0	81.22	0.1	0.5
Tr95x16	16		94.3	88.84	86.25	77.0	73.71	0.1	1
Tr95x18	18		94.2	85.80	85.20	75.0	74.05	0.1	1
Tr100x12	12	100	99.4	93.84	93.34	87.0	86.22	0.1	1
Tr100x16	16		99.29	91.81	91.25	82.0	78.71	0.1	1
Tr100x20	20		99.15	89.79	89.19	78.0	77.01	0.1	1
Tr120x14	14	120	119.33	112.82	112.29	104	103.16	0.1	1
Tr120x16	16		119.29	111.81	111.25	102	98.71	0.1	1
Tr120x22	22		119.10	108.78	108.15	96	94.99	0.1	1
Code	螺距 (mm)	d (mm)		d2 (mm)		d3 (mm)		Pitch Error (mm/300mm)	Straightness (mm/300mm)
		Max	Min	Max	Min	Max	Min		

## Other Types of Thread and their sizes

Thread Type	
Code	Meaning
Tr	ISO Trapezoidal Thread (30°)
A	ACME Thread (29°)
M	ISO Metric Thread (60°)
W	Worm (40°)
SQ	Square Thread (0°)
R	Round Thread
HL	Helix Thread

Direction of Thread	
Code	Meaning
RH	Right Hand
LH	Left Hand

Material of Lead Screw	
Code	Meaning
1045	Carbon Steel (1045)
SS	Stainless Steel (SS304)

### Mould available for Metric Thread

No.	Type of Thread	Direction of Thread	Diameter	Lead	Pitch	Start(s)	Material
1	M	RH	3.5	0.61	0.61	1	1045
2	M	RH	8	5	1.25	4	1045
3	M	RH	9.8	6.25	1.25	5	1045
4	M	RH	11.6	7.5	1.25	6	1045
5	M	RH	12	1.25	1.25	1	1045
6	M	RH	12	1.75	1.75	1	1045
7	M	RH	20	4	4	1	1045

# Lead Screw

Mould available for Acme Thread

No.	Thread	Direction	Diameter	Lead	Pitch	Start(s)	Material
1	A	RH	3.175	4	1	4	1045
2	A	RH	4.76	0.635	0.635	1	1045
3	A	RH	5	1	1	2	1045
4	A	RH	5.56	1.2192	1.2192	4	1045
5	A	RH	6.35	1	1	2	1045
6	A	RH	6.35	1.5875	1.5875	2	1045
7	A	RH	9.525	2.3091	2.3091	4	1045
8	A	RH	9.525	2.1166	2.1166	2	1045
9	A	RH	9.525	1.9538	1.9538	2	1045

Mould available for lead screw of Stainless Steel material

No.	Thread	Direction	Diameter	Lead	Pitch	Start(s)	Material
1	Tr	RH	6.35	3.175	1.5875	2	SS
2	Tr	RH	6.35	12.7	2.54	5	SS
3	Tr	RH	9	4.762	1.5875	3	SS
4	Tr	RH	15	7.9375	1.5875	5	SS
5	Tr	RH	16	9	4.5	2	SS
6	Tr	RH	17.41	9.525	1.5875	6	SS
7	Tr	RH	18	12.7	1.5875	8	SS
8	Tr	RH	11.9	6.35	1.5875	4	SS

Mould available for other Lead Screws of Carbon Steel

No.	Thread	Dir.	Dia.	Lead	Pitch	Start(s)	No.	Thread	Dir.	Dia.	Lead	Pitch	Start(s)
1	M	RH	3.5	0.61	0.61	1	20	Tr	RH	8	8	2	4
2	A	RH	3.175	4	1	4	21	Tr	RH	8	10	2.5	4
3	A	RH	4.76	0.635	0.635	1	22	Tr	RH	8	12.7	3.175	4
4	A	RH	5	2	1	2	23	Tr	RH	8	15	2.5	6
5	A	RH	5.56	4.8768	1.2192	4	24	Tr	RH	8	20	2.5	8
6	Tr	RH	5.56	9.75	1.2188	8	25	Tr	RH	8	24	4	6
7	Tr	RH	6.35	0.8	0.8	1	26	Tr	RH	9	4.5	1.5	3
8	Tr	RH	6.35	1.5875	1.5875	1	27	Tr	RH	9	4.762	1.5875	3
9	A	RH	6.35	2	1	2	28	Tr	RH	9	7.9375	1.5875	5
10	A	RH	6.35	3.175	1.5875	2	29	Tr	RH	9	17.5	2.5	7
11	Tr	RH	6.35	3.175	1.5875	2	30	Tr	RH	9	25	5	5
12	Tr	RH	6.35	6.35	1.5875	4	31	Tr	RH	9	28	4	7
13	Tr	RH	6.35	12.7	2.54	5	32	Tr	RH	9.5	2.54	2.54	1
14	Tr	RH	6.5	3	1.5	2	33	Tr	RH	9.5	5.08	2.54	2
15	Tr	RH	7	3	1.5	2	34	Tr	RH	9.5	12	4	3
16	SQ	RH	8	1	1	1	35	Tr	RH	9.5	12.5	2.5	5
17	Tr	RH	8	4	2	2	36	Tr	RH	9.5	12.7	3.175	4
18	M	RH	8	5	1.25	4	37	A	RH	9.525	9.2364	2.3091	4
19	HL	RH	8	5	/	/	38	A	RH	9.525	4.2332	2.1166	2

# Lead Screw

No.	Thread	Dir.	Dia.	Lead	Pitch	Start(s)
39	A	RH	9.525	3.9076	1.9538	2
40	Tr	RH	9.5	8	1.333	6
41	Tr	RH	9.6	15.875	3.175	5
42	Tr	RH	9.7	9	4.5	2
43	M	RH	9.8	6.25	1.25	5
44	Tr	LH	9.92	4	2	2
45	SQ	RH	10	1.5	1.5	1
46	W	RH	10	3.8074	/	/
47	Tr	RH	10	4	2	2
48	Tr	RH	10	5	2.5	2
49	Tr	RH	10	19.05	3.175	6
50	Tr	RH	10	20	3.3333	6
51	Tr	RH	10.26	20	2.5	8
52	Tr	RH	10.3	32	4	8
53	Tr	RH	11	2	2	1
54	Tr	RH	11	4	2	2
55	Tr	RH	11	6	1.5	4
56	Tr	RH	11	8	4	2
57	Tr	RH	11	19.05	3.175	6
58	Tr	RH	11	30	5	6
59	Tr	RH	11.3	6.35	3.175	2
60	Tr	RH	11.3	22.22	3.175	7
61	Tr	RH	11.39	22.5	2.5	9
62	Tr	RH	11.45	4	2	2
63	Tr	RH	11.5	2.54	2.54	1
64	Tr	RH	11.5	5.08	2.54	2
65	Tr	RH	11.5	12.7	2.54	5
66	Tr	RH	11.5	15	2.5	6
67	Tr	RH	11.5	15.75	3.15	5
68	Tr	RH	11.5	36	4	9
69	M	RH	11.6	7.5	1.25	6
70	Tr	RH	11.8	8	4	2
71	Tr	RH	11.9	6.35	1.5875	4
72	Tr	RH	11.9	9.526	1.5875	6
73	Tr	RH	11.95	3.174	1.5875	2
74	M	RH	12	1.25	1.25	1
75	M	RH	12	1.75	1.75	1
76	Tr	RH	12	6	3	2
77	Tr	RH	12	9	3	3
78	Tr	RH	12	10	2.5	4
79	Tr	RH	12	16	4	4
80	Tr	RH	12	21	4.2	5
81	Tr	RH	12	40	4	10

No.	Thread	Dir.	Dia.	Lead	Pitch	Start(s)
82	Tr	RH	12.5	2.54	2.54	1
83	Tr	RH	12.5	5.08	2.54	2
84	Tr	RH	12.5	25	2.5	10
85	Tr	RH	12.7	25.4	3.175	8
86	Tr	RH	12.8	22.225	3.175	7
87	Tr	RH	12.8	65	5	13
88	Tr	RH	13	7.5	1.5	5
89	Tr	RH	13	35	5	7
90	Tr	RH	13	17.5	2.5	7
91	Tr	RH	13	30	10	3
92	Tr	LH	13	30	10	3
93	Tr	RH	13.2	42	6	7
94	Tr	LH	13.2	42	6	7
95	Tr	RH	13.5	12	4	3
96	Tr	RH	13.5	13.5	4.5	3
97	Tr	RH	13.6	27.5	2.5	11
98	Tr	RH	13.8	70	5	14
99	Tr	RH	14	2	2	1
100	Tr	LH	14	2	2	1
101	Tr	RH	14	3	3	1
102	Tr	LH	14	3	3	1
103	Tr	RH	14	4	4	1
104	Tr	LH	14	4	4	1
105	Tr	RH	14	6	3	2
106	Tr	RH	14	8	4	2
107	Tr	RH	14	12	4	3
108	Tr	RH	14	19.05	3.15	6
109	Tr	RH	14	28.575	3.175	9
110	Tr	LH	14.28	6	2	3
111	W	RH	14.4	7.614	/	/
112	Tr	RH	14.5	7.5	2.5	3
113	Tr	RH	14.5	20	4	5
114	Tr	RH	14.5	25.4	3.175	8
115	Tr	RH	14.7	12.5	2.5	5
116	Tr	RH	14.8	40	10	4
117	Tr	LH	14.8	40	10	4
118	Tr	RH	14.8	48	6	8
119	Tr	LH	14.8	48	6	8
120	Tr	RH	14.8	75	5	15
121	Tr	RH	15	2	2	1
122	Tr	RH	15	6	2	3
123	Tr	RH	15	7.9375	1.5875	5
124	Tr	RH	15	11.11	1.5875	7



# Lead Screw

No.	Thread	Dir.	Dia.	Lead	Pitch	Start(s)
125	Tr	RH	15	12	3	4
126	Tr	RH	15	12	6	2
127	Tr	RH	15	20	2.5	8
128	Tr	RH	15	30	2.5	12
129	Tr	RH	15.14	40	5	8
130	Tr	RH	15.5	31.75	3.175	10
131	Tr	RH	15.8	80	5	16
132	Tr	RH	16	2	2	1
133	Tr	RH	16	3	3	1
134	Tr	RH	16	8	4	2
135	Tr	RH	16	9	4.5	2
136	Tr	RH	16	9.525	3.175	3
137	Tr	RH	16	16	4	4
138	Tr	RH	16	22.225	3.15	7
139	Tr	RH	16	28.575	3.175	9
140	Tr	RH	16.4	54	6	9
141	Tr	LH	16.4	54	6	9
142	Tr	RH	16.5	6	2	3
143	Tr	RH	16.5	22.5	2.5	9
144	Tr	RH	16.72	85	5	17
145	Tr	RH	17	34.9	3.175	11
146	Tr	RH	17.28	45	5	9
147	Tr	RH	17.55	4.761	1.5875	3
148	Tr	RH	17	24	4	6
149	Tr	RH	17	24	6	4
150	Tr	RH	17	9	3	3
151	Tr	RH	17.3	18	4.5	4
152	Tr	RH	17.41	9.525	1.5875	6
153	Tr	RH	17.5	15	2.5	6
154	Tr	RH	17.64	90	5	18
155	Tr	RH	17.69	31.75	3.175	10
156	Tr	RH	17.93	16	4	4
157	Tr	RH	18	4	4	1
158	Tr	LH	18	4	4	1
159	Tr	RH	18	8	4	2
160	Tr	RH	18	12.7	1.5875	8
161	R	RH	18	18	4.5	4
162	Tr	RH	18	25	2.5	10
163	Tr	RH	18	25.4	3.15	8
164	Tr	RH	18	38.075	3.175	12
165	Tr	RH	18	60	6	10
166	Tr	LH	18	60	6	10
167	Tr	RH	18.075	50	10	5

No.	Thread	Dir.	Dia.	Lead	Pitch	Start(s)
168	Tr	LH	18.075	50	10	5
169	Tr	RH	18.56	95	5	19
170	Tr	LH	18.64	8	2	4
171	W	RH	18.8	9.5178	/	/
172	Tr	RH	19	15	3	5
173	Tr	RH	19.428	50	5	10
174	Tr	RH	19.45	20	4	5
175	Tr	RH	19.46	28	4	7
176	Tr	RH	19.6	66	6	11
177	Tr	LH	19.6	66	6	11
178	Tr	RH	19.9	12	4	3
179	Tr	RH	20	8	2	4
180	Tr	RH	20	9	3	3
181	Tr	RH	19	3.175	3.175	1
182	Tr	LH	19	3.175	3.175	1
183	Tr	RH	19	6	6	1
184	M	RH	20	4	4	1
185	Tr	RH	20	5	5	1
186	Tr	RH	20	10	5	2
187	Tr	RH	20	17.5	2.5	7
188	Tr	RH	20	18	6	3
189	Tr	RH	21.1	22.5	4.5	5
190	Tr	RH	21.2	72	6	12
191	Tr	LH	21.2	72	6	12
192	Tr	RH	21.3	12.7	3.175	4
193	Tr	RH	21.35	60	10	6
194	Tr	LH	21.35	60	10	6
195	Tr	RH	21.57	55	5	11
196	Tr	RH	21.86	20	4	5
197	Tr	RH	21.93	32	4	8
198	Tr	RH	22	8	2	4
199	Tr	RH	22	18	3	6
200	Tr	RH	22.8	78	6	13
201	Tr	LH	22.8	78	6	13
202	Tr	RH	22.9	24	4	6
203	Tr	RH	23	10	2.5	4
204	Tr	LH	23	10	2	5
205	Tr	RH	23	12	6	2
206	Tr	RH	23.15	6.348	1.587	4
207	W	RH	23.2	11.42	/	/
208	Tr	RH	24	10	5	2
209	Tr	RH	24.4	36	4	9
210	Tr	RH	24.625	70	10	7

# Lead Screw

No.	Thread	Dir.	Dia.	Lead	Pitch	Start(s)
211	Tr	LH	24.625	70	10	7
212	Tr	RH	24.9	27	4.5	6
213	Tr	RH	25	12	6	2
214	Tr	RH	25.43	24	6	4
215	Tr	RH	25.8	16	4	4
216	Tr	RH	25.8	24	4	6
217	Tr	RH	26	12	3	4
218	Tr	RH	26	12	4	3
219	Tr	RH	26.3	15.875	3.175	5
220	Tr	RH	26.35	28	4	7
221	M	RH	27	3	3	1
222	Tr	RH	27	10	2	5
223	Tr	LH	27.36	12	2	6
224	Tr	RH	27.5	12	3	4
225	Tr	RH	27.5	12.5	2.5	5
226	Tr	RH	27.9	80	10	8
227	Tr	LH	27.9	80	10	8
228	Tr	RH	28.65	15	5	3

No.	Thread	Dir.	Dia.	Lead	Pitch	Start(s)
229	Tr	RH	28.7	31.5	4.5	7
230	Tr	RH	29.8	32	4	8
231	Tr	RH	30.86	30	6	5
232	Tr	RH	31.7	20	4	5
233	Tr	LH	31.72	14	2	7
234	Tr	RH	32.5	15	3	5
235	Tr	RH	33	18	6	3
236	Tr	RH	34	16	4	4
237	Tr	RH	34.65	15	5	3
238	Tr	RH	36.3	36	6	6
239	Tr	RH	37.3	20	5	4
240	Tr	RH	37.6	24	4	6
241	Tr	RH	43	24	6	4
242	Tr	RH	45.3	20	5	4
243	Tr	RH	45.95	25	5	5
244	Tr	RH	53	30	6	5
245	Tr	RH	55.95	25	5	5
/	/	/	/	/	/	/

## General Purpose Lead Screw Nut

General Purpose Nut is fit for lead screws of trapezoidal thread, STT thread, acme thread and other standard or nonstandard thread, which don't require anti-backlash and wear compensation. It offers axial clearance from 0.075mm to 0.18mm.

Properties:

- Standards: ISO2901-4, DIN103, GB/5796; Clearance: 7H. Higher tolerances can be acquired upon request.
- The popular material can be bronze, brass, casting iron, alloy steel, POM (Derlin, Acetal), PA6 (PA66, Nylon) and other polymer plastic materials.
- High quality materials, strict quality control and precision machining ensure the best performance.
- Working temperature: 15°C to 350°C for metal nut, and 15°C to 175°C for plastic nut.

Suggestions: the lead screw assembly should be replaced by new set once the axial clearance is 1/4 or more of the pitch.

Note: all dimensions, unless marked, in mm.

# Lead Screw

公称直径	导程	螺距	头数	左旋规格	螺纹高度	外径		中径		底径		最大加工直径	传动效率 (%)	
						最大	最小	最大	最小	最大	最小		塑料螺母	青铜螺母
4	1	1	1		0.71	4.71	-	-	-	3.29	-	3	38	27
	2	1	2		0.5	4.2	-	-	-	3.2	-	3	56	43
5	5	1.25	4		0.9	5.4	-	-	-	3.6	-	3	70	58
	10	2.5	4		0.71	5.71	-	-	-	4.29	-	4	76	65
	15	2.5	6		0.71	4.71	-	-	-	3.29	-	3	76	64
	20	1.25	16		0.5	6	-	-	-	5	-	5	77	64
6	1	1	1		0.71	6	-	-	-	4.58	-	4	32	22
	1.5	1.5	1		1	6	-	-	-	4	-	4	42	31
	2	2	1		1.015	6	-	-	-	3.97	-	3	49	37
	3	1.5	2		0.95	6	-	-	-	4.1	-	4	58	46
	5	2.5	2		0.99	6	-	-	-	4.02	-	4	68	56
	9	2.25	4		0.99	6	-	-	-	4.02	-	4	76	64
	10	2.5	4		1.015	6	-	-	-	3.97	-	3	77	66
	18	4.5	4		0.99	6	-	-	-	4.02	-	4	77	64
8	25	1.25	20		0.55	7.4	-	-	-	6.3	-	6	25	64
	1	1	1	√	0.5	8	-	-	-	7	-	7	34	17
	1.5	1.5	1		0.9	8	7.85	7.183	7.013	6.2	6.1	6	42	24
	2	2	1		1.25	8	-	-	-	5.5	-	5	58	30
	4	2	2		1.25	8	-	-	-	5.5	-	5	74	45
	10	2.5	4		1.35	8.2	-	-	-	5.5	-	5	75	62
	12	3	4		1.2	8	-	-	-	5.6	-	5	77	64
	15	2.5	6		1.35	8.2	-	-	-	5.5	-	5	77	66
10	24	4	6		1.2	8	-	-	-	5.6	-	5	76	64
	30	1.25	24		0.55	8.6	-	-	-	7.5	-	7	77	64
	1	1	1		0.56	8.9	-	-	-	8.88	-	5	21	14
	1.4	1.4	1		0.915	10	-	-	-	7.7	-	8	28	20
	1.5	1.5	1		0.9	9.53	9.85	9.18	9.01	8.2	9.1	7	29	20
	2	2	1		1.25	10	9.82	8.929	8.739	7.5	7.3	8	36	25
	3	3	1		1.75	10	9.8	8.415	8.191	5.84	6.3	7	47	35
	3	1.5	2		0.805	10	-	-	-	7.92	-	5	45	33
	4	2	2		2.25	9.53	9.82	8.929	8.716	7.5	7.3	7	55	42
	5	2.5	2		1.385	10	-	-	-	6.76	-	7	59	46
	6	1.5	4		0.9	9.53	-	-	-	7.9	-	6	61	48
	10	2.5	4		1.45	10	-	-	-	7.23	-	7	71	59
	10	1.25	8		1.45	10	-	-	-	9.2	-	7	70	58
	12	3	4		0.8	10	-	-	-	7.1	-	8	73	62
	15	3	5		1.44	10	-	-	-	7.1	-	7	75	64
	12	20	2.5	8		0.6	10	-	-	-	9.4	-	7	77
25		2.5	10		1.3	10	-	-	-	6.65	-	8	77	65
35		1.25	28		1.41	9.53	-	-	-	8.9	-	6	76	70
50		5	10		2	10.1	-	-	-	7.4	-	8	71	55
2		2	1		1.21	12	11.82	10.93	8.94	9.58	9.3	8	31	22
2.5		2.5	1		1.485	12.7	-	-	-	9.73	-	9	35	25
3		3	1		1.75	12	11.76	10.42	10.19	8.5	8.3	8	41	30
4		2	2		1.33	12	-	-	-	9.34	-	9	47	35
5		2.5	2		1.55	12	-	-	-	8.9	-	8	53	41
6		3	2		1.75	12	11.76	10.42	10.16	8.5	8.3	8	58	45
9		3	3		1.92	12	-	-	-	8.16	-	8	66	54
10		2.5	4		1.715	12.62	-	-	-	9.19	-	9	67	55
15		3	5		1.5	12.2	-	-	-	9.2	-	9	73	62
15		2.5	6		1.65	12	-	-	-	8.7	-	8	74	62
16		3.2	5		1.6	12.7	-	-	-	9.5	-	9	73	62
18		3	6		1.5	12	-	-	-	9	-	9	75	64
25	5	5		1.95	11.9	-	-	-	8	-	8	77	66	
25	2.5	10		1.4	12	-	-	-	9.2	-	9	77	66	
45	3	15		1.2	12	-	-	-	9.6	-	9	76	62	
45	1.25	36		0.7	12.8	-	-	-	11.4	-	11	76	64	

# Lead Screw

公称直径	导程	螺距	头数	左旋规格	螺纹高度	外径		中径		底径		最大加工直径	传动效率 (%)	
						最大	最小	最大	最小	最大	最小		塑料螺母	青铜螺母
14	2	2	1		1.25	14	13.82	12.93	12.73	11.5	11.3	11	28	19
	3	3	1	√	1.75	14	13.76	12.42	12.19	10.5	10.3	10	37	27
	4	4	1		2.25	14	13.8	11.9	11.64	9.5	9.3	9	45	33
	6	3	2		1.75	14	13.76	12.42	12.16	10.5	10.3	10	54	41
	8	4	2		2.15	14	-	-	-	9.7	-	9	61	48
	10	2.5	4		1.625	13.62	-	-	-	10.37	-	10	65	53
	12	4	3		2.15	14	-	-	-	9.7	-	9	68	56
	18	3	6		1.45	14.3	-	-	-	11.4	-	11	73	62
	30	5	6		1.9	13.9	-	-	-	10.1	-	10	77	66
16	2	2	1		1.25	16	15.82	14.93	14.73	13.5	13.3	13	25	17
	3	3	1	√	1.5	16	-	-	-	13	-	13	34	24
	4	4	1		2.25	16	15.7	13.91	13.64	11.5	11.3	11	41	30
	5	2.5	2		1.9	16	-	-	-	12.2	-	12	46	34
	8	4	2		2.25	16	15.7	13.91	13.61	11.5	11.3	11	58	45
	16	4	4		2.25	16	-	-	-	11.5	-	11	71	59
	16	2.29	7		1.7	16	-	-	-	12.6	-	12	70	58
	21	3	7		1.45	16.5	-	-	-	13.6	-	13	73	62
	25	5	5		2.25	16	-	-	-	11.5	-	11	76	64
	35	5	7		1.9	15.9	-	-	-	12.1	-	12	77	66
90	5	18		1.35	17	-	-	-	14.3	-	14	71	55	
18	2	2	1		1.25	18	17.82	16.93	16.73	15.5	15.3	15	23	15
	4	4	1	√	2.25	18	17.7	15.91	15.64	13.5	13.3	13	38	27
	8	4	2		2.25	18	17.7	15.91	15.61	13.5	13.3	13	54	42
	16	4	4		1.85	18	-	-	-	14.3	-	14	68	56
	18	4.5	4		1.8	18	-	-	-	14.4	-	14	70	58
	24	3	8		1.5	18.7	-	-	-	15.7	-	15	73	62
	40	5	8		1.9	17.9	-	-	-	14.1	-	14	77	66
	60	6	10		2.05	18	-	-	-	13.9	-	13	76	64
	100	5	20		1.3	18.8	-	-	-	16.2	-	16	71	55
20	2	2	1		1.25	20	19.82	18.93	18.73	17.5	17.3	17	21	14
	4	4	1	√	2.25	20	19.7	17.91	17.64	15.5	15.3	15	35	25
	8	4	2		2.25	20	19.7	17.91	17.61	15.5	15.3	15	52	39
	12	3	4		2.1	20	-	-	-	15.8	-	15	61	48
	16	4	4		2.5	20	-	-	-	15	-	15	67	55
	18	6	3		3.17	20	-	-	-	13.66	-	13	69	57
	20	4	5		2.5	20	-	-	-	15	-	15	70	59
	45	5	9		1.95	20	-	-	-	16.1	-	16	77	66
22	3	3	1		1.75	22	21.76	20.41	20.19	18.5	18.3	18	27	18
	4	4	1		2.35	22	-	-	-	17.3	-	17	33	23
	5	5	1	√	2.75	22	21.67	19.39	19.11	16.5	16.3	16	39	28
	6	2	3		0.955	21.54	-	-	-	19.63	-	19	41	30
	8	4	2		2.25	22	21.7	19.9	19.61	17.5	17.3	17	40	37
	10	5	2		2.75	22	-	-	-	16.5	-	16	55	43
	10	2.5	4		1.715	22.23	21.67	19.39	19.08	18.82	16.3	18	54	41
	16	4	4		1.715	22.23	-	-	-	18.82	-	18	64	51
	20	4	5		1.85	22	-	-	-	18.3	-	18	68	56
	24	4	6		1.715	22.23	-	-	-	18.82	-	18	71	59
50	5	10		1.95	22	-	-	-	18.1	-	18	77	66	
24	3	3	1		1.75	24	23.76	22.41	22.17	20.5	20.3	20	25	17
	5	5	1		2.75	24	23.76	21.39	21.09	18.5	18.3	18	36	26
	10	5	2		2.75	24	23.76	21.39	21.06	18.5	-	18	53	64
	40	5	8		2.25	24.3	-	-	-	19.8	-	19	76	66
	55	5	11		1.95	24	-	-	-	20.1	22.3	20	77	16

# Lead Screw

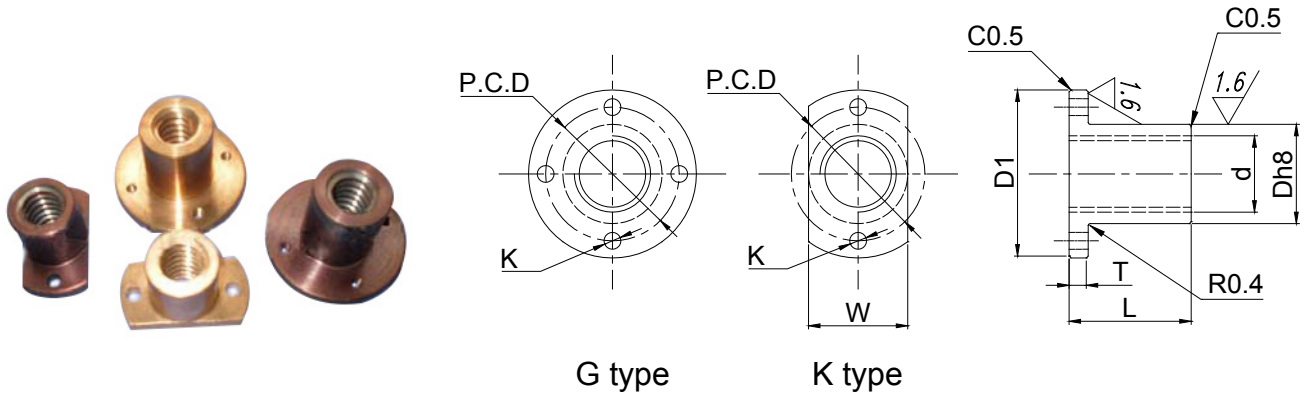
公称直径	导程	螺距	头数	左旋规格	螺纹高度	外径		中径		底径		最大加工直径	传动效率 (%)	
						最大	最小	最大	最小	最大	最小		塑料螺母	青铜螺母
26	3	3	1		1.75	26	25.76	24.41	24.17	22.5	20.3	22	23	24
	5	5	1		2.75	26	25.67	23.39	23.09	20.5	17.3	20	34	35
	8	8	1		4.5	26	25.5	21.87	21.49	17	16.4	17	47	33
	8	4			2.25	26	25.5	21.87	21.49	17	20.3	16	45	38
	10	5	2		2.75	26	25.67	23.39	23.06	20.5	-	20	51	45
	16	4	4		2.1	26	-	-	-	21.8	-	21	60	52
	20	4	5		1.63	26.63	-	-	-	23.37	-	23	64	56
	24	4	6		1.85	26	-	-	-	22.3	-	22	68	65
	50	5	10		1.63	26.63	-	-	-	23.37	-	23	76	66
	60	5	12		1.9	26	-	-	-	22.2	-	22	77	66
75	5	15		1.63	26.63	-	-	-	23.37	-	23	77	64	
28	3	3	1		1.75	28	27.76	26.41	26.17	24.5	22.3	24	22	23
	5	5	1		2.75	28	27.67	25.39	25.09	22.5	18.6	22	33	33
	8	8	1		4.5	28	27.5	23.87	23.49	19	22.3	18	45	37
	10	5	2		2.75	28	27.67	25.39	25.06	22.5	-	22	49	66
	65	4.3	15		1.9	28	-	-	-	24.2	26.2	24	77	14
30	3	3	1		1.75	30	29.76	28.41	28.17	26.5	22.7	26	21	25
	6	6	1		3.5	30	29.63	26.88	26.55	23	18.6	22	36	37
	10	10	1		5.5	30	29.47	24.85	24.45	19	22.7	19	49	39
	12	6	2		3.5	30	29.63	26.88	26.51	23	-	22	52	50
	28	4	7		1.75	30	-	-	-	26.5	-	26	68	64
	50	5	10		2.25	29.8	-	-	-	25.3	-	25	76	66
	70	5	14		1.9	30	-	-	-	26.2	28.2	26	77	13
32	3	3	1		1.75	32	31.76	30.5	30.25	28.5	26.2	28	20	20
	5	5	1		2.75	32	31.67	29.39	29.09	26.5	25.2	26	29	24
	6	6	1		3.5	32	31.63	28.88	28.55	25	23.56	25	34	38
	12	6	2		3.5	32	31.63	28.88	28.51	25	-	23	50	48
	20	4	5		2.1	32	-	-	-	27.9	-	27	61	56
	75	5	15		1.9	32	-	-	-	28.2	-	28	77	66
36	6	6	1		3.5	36	35.63	32.88	32.55	29	-	28	31	22
	12	6	2		3.5	36	35.63	32.88	32.51	29	28.7	28	47	35
	200	5	40		1.3	36	-	-	-	33.4	-	33	71	55
40	7	7	1		4	40	39.58	36.38	36.02	32	31.6	31	32	22
	14	7	2		4	40	39.58	36.38	38.98	32	31.6	31	48	36
44	7	7	1		4	44	43.58	40.38	40.02	36	35.6	35	30	21
	12	12	1		6.5	44	43.4	37.84	37.42	31	30.6	30	44	32
	14	7	2		4	44	43.58	40.38	39.98	36	35.6	35	46	34
50	8	8	1		4.5	50	49.55	45.87	45.47	41	40.5	40	30	21
	12	12	1		6.5	50	49.4	43.84	43.37	37	36.5	36	40	29
55	9	9	1		5	55	54.5	50.36	49.94	45	44.5	44	31	21
	14	14	1		8	55	54.33	47.92	47.32	39	38.5	38	42	30
60	9	9	1		5	60	59.5	55.36	54.94	50	49.5	49	29	20
	14	14	1		8	60	59.33	52.92	52.32	44	43.5	43	39	28
70	10	10	1		5.5	70	59.5	64.85	64.43	59	58.5	58	27	19
	16	16	1		9	70	59.33	61.81	61.28	52	51.5	51	39	28
80	10	10	1		5.5	80	69.47	74.85	74.43	69	68.5	68	25	17
	16	16	1		9	80	69.29	71.81	71.28	62	61.5	61	35	25
90	12	12	1		6.5	90	79.47	83.84	83.37	77	76.5	76	26	18
	18	18	1		10	90	79.29	80.8	80.24	70	69.1	69	35	25
100	12	12	1		6.5	100	99.4	93.84	93.34	87	86.22	86	24	16
	16	10	1		9	100	99.29	91.91	91.25	82	78.71	78	30	21
	20	20	1		11	100	99.15	89.79	89.19	78	77.04	77	35	25
120	14	14	1		8	120	119.3	112.8	112.3	104	103.2	100	23	16
	16	16	1		9	120	119.3	111.8	111.3	102	98.71	98	26	18
	22	22	1		12	120	119.1	108.8	108.2	96	94.99	94	33	23

# Lead Screw

丝杆直径	导程		螺距	螺纹头数	螺纹高度	齿根圆直径		外径尺寸		塑料螺母 传动效率	青铜螺母 传动效率
	in	mm	mm			in	mm	in	mm		
1/46.35mm	0.05	1.27		1	0.95	0.175	4.45	0.25	6.35	36.37%	25.88%
	0.0625	1.588			1.12	0.162	4.11	0.25	6.35	42.29%	30.87%
5/167.94mm	0.07143	1.814		1	0.91	0.241	6.12	0.313	7.94	38.49%	27.63%
	0.25	6.35 3.175		2	1.24	0.215	5.46	0.313	7.94	67.32%	55.22%
3/89.525mm	0.062	1.575		1	1.13	0.286	7.26	0.375	9.525	31.40%	21.86%
	0.08333	2.116			1.05	0.292	7.41	0.375	9.525	37.74%	27.00%
	0.1	2.54			1.18	0.282	7.16	0.375	9.525	42.36%	30.93%
	0.125	3.175			1.23	0.278	7.06	0.375	9.525	47.81%	35.78%
	0.166	4.216 2.108		2	1.42	0.263	6.68	0.375	9.525	55.01%	42.56%
	0.2	5.08 2.54			1.18	0.282	7.16	0.375	9.525	58.53%	46.04%
	0.25	6.35 3.175			1.23	0.278	7.06	0.375	9.525	63.33%	50.96%
7/1611.11mm	0.08333	2.116		1	1.05	0.354	9	0.438	11.11	33.88%	23.84%
1/212.7mm	0.1	2.54		1	1.8	0.359	9.12	0.5	12.7	36.16%	25.70%
	0.2	5.08 2.54		2	1.38	0.391	9.93	0.5	12.7	51.58%	39.27%
	0.25	6.35 3.175			2.13	0.332	8.43	0.5	12.7	58.24%	45.75%
5/815.875mm	0.1	2.54		1	1.38	0.516	13.1	0.625	15.88	29.97%	20.74%
	0.125	3.175			2.13	0.457	11.6	0.625	15.88	35.96%	25.53%
	0.2	5.08			3.15	0.377	9.57	0.625	15.88	48.81%	36.69%
	0.2	5.08 2.54		2	1.8	0.484	12.3	0.625	15.88	46.41%	34.51%
3/419.05mm	0.1	2.54		1	1.8	0.608	15.44	0.75	19.05	26.49%	18.07%
	0.166	4.216			2.7	0.537	13.64	0.75	19.05	38.42%	27.62%
	0.2	5.08			3.15	0.502	12.7	0.75	19.05	43.50%	31.93%
	0.333	8.46 4.23		2	2.7	0.537	13.64	0.75	19.05	54.88%	42.43%
7/822.225mm	0.1667	4.2342		1	2.7	0.661	16.8	0.875	22.23	34.55%	24.38%
125.4mm	0.1	2.54		1	1.4	0.889	22.6	1	25.4	20.62%	13.73%
	0.167	4.2418			1.82	0.857	21.77	1	25.4	30.52%	21.17%
	0.2	5.08			3.17	0.75	19.05	1	25.4	35.72%	25.33%
	0.25	6.35			3.84	0.698	17.73	1	25.4	41.58%	30.26%
	0.5	12.7 6.35		2	3.84	0.698	17.73	1	25.4	57.81%	45.31%
1-1/828mm	0.2	5.08		1	3.17	0.875	22.23	1.125	28.58	32.77%	22.95%
1-1/432mm	0.2	5.08		1	3.2	0.999	25.37	1.25	31.75	30.29%	20.99%
	0.25	6.35			3.875	0.947	24	1.25	31.75	35.65%	25.28%
1-3/835mm	0.25	6.35		1	3.16	1.125	28.6	1.375	34.93	32.76%	22.94%
1-1/238mm	0.1	2.54		1	1.84	1.355	34.42	1.5	38.1	14.70%	9.55%

# Lead Screw

## Round Nut with Flange in Compact Size-RNC



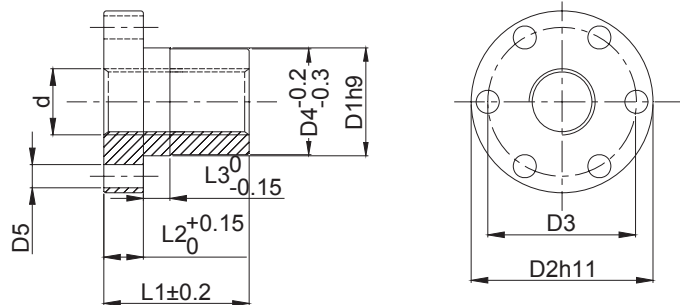
Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	pitch	D	L	D1	T	P.C.D	W	Dynamic Load (KN)
RNC □ -10x □	10	2 (3, 4, 5, 6, 8, 9)	16	19	32	4	24	3.3	2.02
RNC □ -12x □	12		18	24	36	5	27	4.3	3.14
RNC □ -14x □	14	3 (2, 4, 6, 8, 9)	20	24	38	5	29	4.3	3.92
RNC □ -16x □	16		22	28	40	5	31	4.3	5.34
RNC □ -20x □	20	4 (2, 3, 5, 6)	26	32	44	5	35	4.3	7.85
RNC □ -22x □	22	5 (2, 3, 4, 6)	28	40	50	6	39	5.4	9.89
RNC □ -25x □	25		31	40	53	6	42	5.4	11.38
RNC □ -28x □	28		34	43	58	7	46	6.6	14.42
RNC □ -32x □	32	6 (3, 4, 5, 7, 8)	38	43	62	7	50	6.6	16.94

Other sizes, dimensions and shapes are available upon request.

# Lead Screw

## Round Nut with Round Flange-RNRF



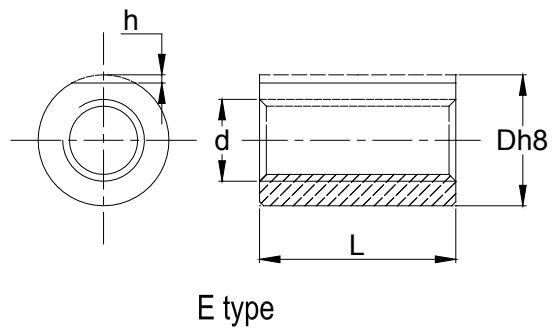
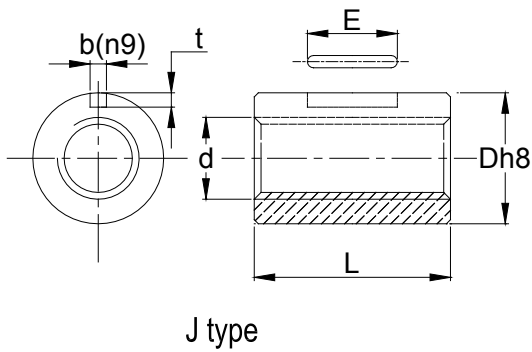
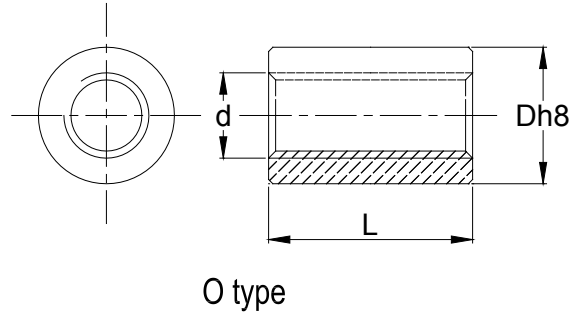
Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	Pitch	D1	D2	D3	D4	Mounting holes		L1	L1	L2
			h9			-0.2/-0.3	D5	Thread			
RNRF: with single-start thread											
RNRF-10x2	10	2	25	42	34	25	5	M4	25	10	6
RNRF-10x3	10	3	25	42	34	25	5	M4	25	10	6
RNRF-12x3	12	3	28	48	38	28	6	M5	35	12	8
RNRF-14x3	14	3	28	48	38	28	6	M5	35	12	8
RNRF-16x4	16	4	28	48	38	28	6	M5	35	12	8
RNRF-18x4	18	4	28	48	38	28	6	M5	35	12	8
RNRF-20x4	20	4	32	55	45	32	7	M6	44	12	8
RNRF-22x5	22	5	32	55	45	32	7	M6	44	12	8
RNRF-24x5	24	5	32	55	45	32	7	M6	44	12	8
RNRF-26x5	26	5	38	62	50	38	7	M6	46	14	8
RNRF-28x5	28	5	38	62	50	38	7	M6	46	14	8
RNRF-30x6	30	6	38	62	50	38	7	M6	46	14	8
RNRF-32x6	32	6	45	70	58	45	7	M6	54	16	10
RNRF-36x6	36	6	45	70	58	45	7	M6	54	16	10
RNRF-40x7	40	7	63	95	78	63	9	M8	66	16	12
RNRF-44x7	44	7	63	95	78	63	9	M8	66	16	12
RNRF-48x8	48	8	72	110	90	72	11	M10	75	18	14
RNRF-50x8	50	8	72	110	90	72	11	M10	75	18	14
RNRF-60x9	60	9	88	130	110	88	13	M12	90	20	16
RNRF-70x10	70	10	95	140	120	95	13	M12	105	22	17
RNRF: with 2-start thread.											
RNRF-12x6-2	12	3	28	48	38	28	6	M5	35	12	8
RNRF-14x6-2	14	3	28	48	38	28	6	M5	35	12	8
RNRF-16x6-2	16	3	28	48	38	28	6	M5	35	12	8
RNRF-18x8-2	18	4	28	48	38	28	6	M5	35	12	8
RNRF-20x8-2	20	4	32	55	45	32	7	M6	44	12	8
RNRF-22x10-2	22	5	32	55	45	32	7	M6	44	12	8
RNRF-24x10-2	24	5	32	55	45	32	7	M6	44	12	8
RNRF-28x10-2	28	5	38	62	50	38	7	M6	46	14	8
RNRF-30x12-2	30	6	38	62	50	38	7	M6	46	14	8
RNRF-32x12-2	32	6	45	70	58	45	7	M6	54	16	10
RNRF-40x14-2	36	6	45	70	58	45	9	M8	54	16	10



# Lead Screw

## Round Nut without Round Flange-RN



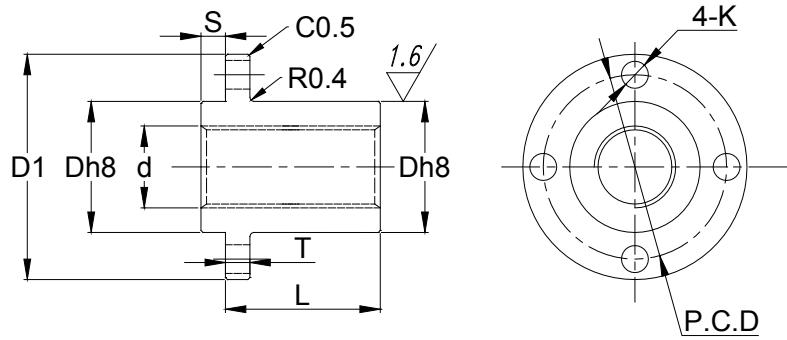
Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	pitch	D	L	b	t	E	h	Dynamic Load (KN)
RN □ -8x1.5	8	1.5	15	20	3	1.8	14	/	1.47
RN □ -10x2	10	2	20	20	4	2.5	14	/	2.06
RN □ -12x2	12	2	22	22	4	3	16	/	2.84
RN □ -14x3	14	3	22	22	4	5	29	1	3.63
RN □ -16x3	16	3	28	26	5	3	18	1	4.90
RN □ -18x4	18	4	32	31	6	3.5	22	/	6.86
RN □ -20x4	20	4	32	31	6	3.5	22	2	7.65
RN □ -22x4	22	5	36	40	6	3.5	26	2	9.90
RN □ -25x5	25	5	36	40	6	3.5	26	2	11.38
RN □ -28x5	22	5	44	45	8	4	32	2	14.42
RN □ -32x6	32	6	44	45	8	4	32	2	17.06
RN □ -36x5	22	6	52	49	12	5	40	-	21.18
RN □ -40x5	22	7	58	57	15	5	42		27.46
RN □ -50x5	22	8	68	67	15	5	52		40.11
Code	d	pitch	D	L	b	t	E	h	Dynamic Load (KN)

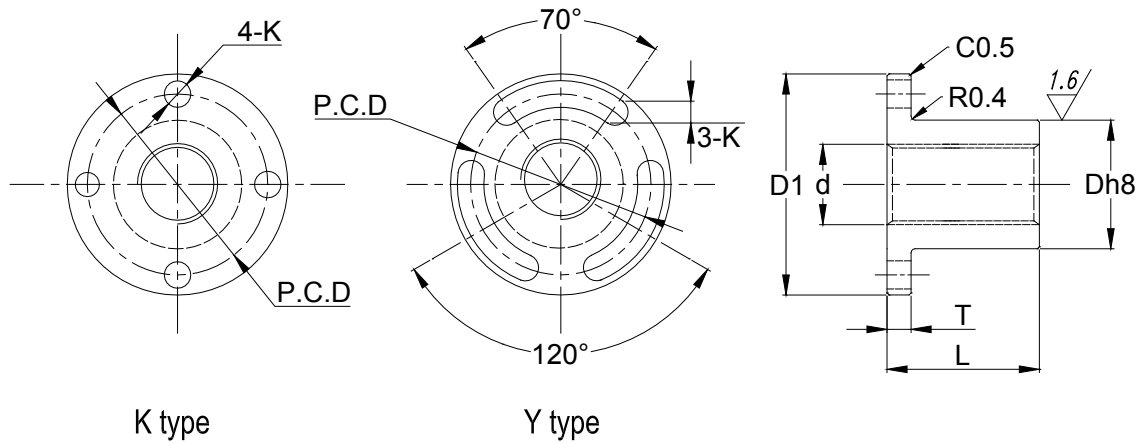
Other sizes, dimensions and shapes are available upon request.

# Lead Screw

## Round Nut with Back Flange or Special Mounting Holes-RNRFX



A type



K type

Y type

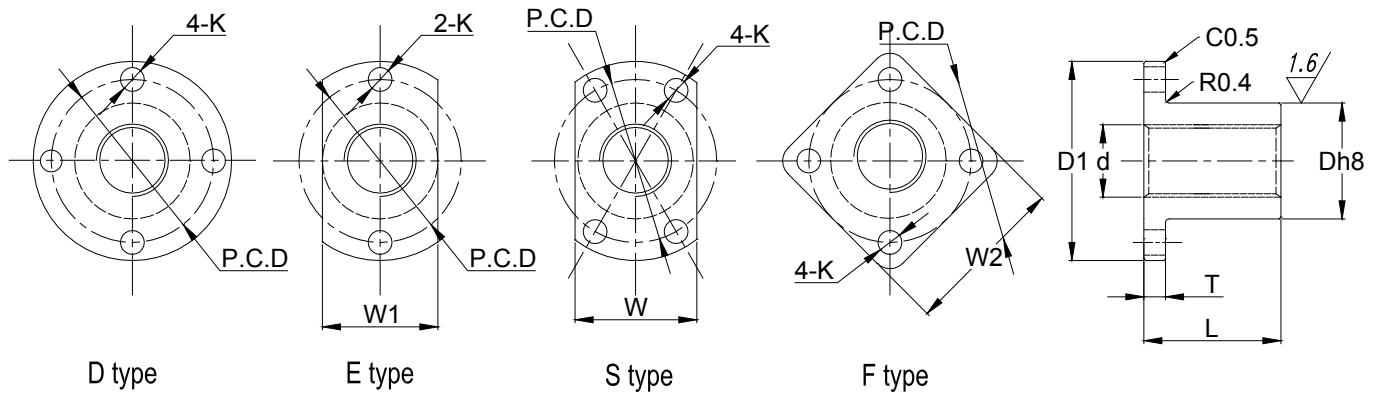
Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	pitch	D	L	D1		T	S	P.C.D		K		Dynamic Load(KN)
					A	K,Y			A	K,Y	A	K,Y	
RNRFX □ -14x □	14	3 (2, 4, 6, 8, 9)	22	20	44	44	5	5	33	31	5.4	M4	4.90
RNRFX □ -16x □	16		28	35	52	51	6	6	40	38	6.6	M5	6.67
RNRFX □ -20x □	20	4(2, 3, 5, 6)	32	40	56	56	6	6	44	42	6.6	M5	9.81
RNRFX □ -22x □	22	5(2, 3, 4, 6)	36	50	60	61	7	6	48	47	6.6	M5	12.36
RNRFX □ -24x □	24		36	50	60	61	7	6	48	47	6.6	M5	14.22
RNRFX □ -28x □	28		44	56	/	76	8	/	/	58	9.0	M6	17.95
RNRFX □ -32x □	32	6(3, 4, 5, 7, 8)	44	56	/	76	8	/	/	58	9.0	M6	21.08

Other sizes, dimensions and shapes are available upon request.

# Lead Screw

## Round Nut with Flange-RNWF

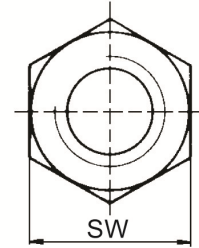
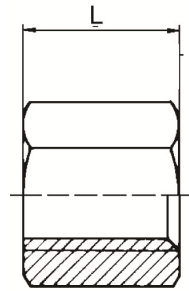


Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	pitch	D	L	D1	P.C.D	T	W	W1	W2	K	Dynamic Load(KN)
RNWF □ -8x □	8	1.5 (1.2)	15	20	30	22	5	/	15	/	4.3	1.47
RNWF □ -10x □	10	2 (3, 4, 5, 6, 8, 9)	20	24	36	26	5	22	20	/	4.3	2.55
RNWF □ -12x □	12		22	30	44	31	5	24	22	/	5.4	3.92
RNWF □ -14x □	14	3 (2, 4, 5, 6, 8, 9)	22	30	44	31	5	24	22	33	5.4	4.90
RNWF □ -16x □	16		28	35	51	38	6	30	28	38	6.6	6.67
RNWF □ -18x □	18	4 (2, 3, 5, 6)	32	40	56	42	6	34	32	/	6.6	8.72
RNWF □ -20x □	20		32	40	56	42	6	34	32	42	6.6	9.81
RNWF □ -22x □	22	5 (2, 3, 4, 6)	36	50	61	47	7	40	36	47	6.6	12.36
RNWF □ -25x □	25		36	50	61	47	7	40	36	47	6.6	14.22
RNWF □ -28x □	28	6 (3, 4, 5, 7, 8)	44	56	76	58	8	48	44	58	9.0	17.95
RNWF □ -32x □	32		44	56	76	58	8	48	44	58	9.0	21.08
RNWF □ -36x □	36		52	60	84	66	8	56	52	/	9.0	25.78
RNWF □ -40x □	40	8 (4, 5, 6, 7, 10)	58	70	98	76	10	62	58	/	11	33.83
RNWF □ -50x □	50		68	80	109	85	10	72	68	/	11	40.31
Code	d	pitch	D	L	D1	P.C.D	T	W	W1	W2	K	Dynamic Load(KN)

# Lead Screw

## Hex Nut-HXN



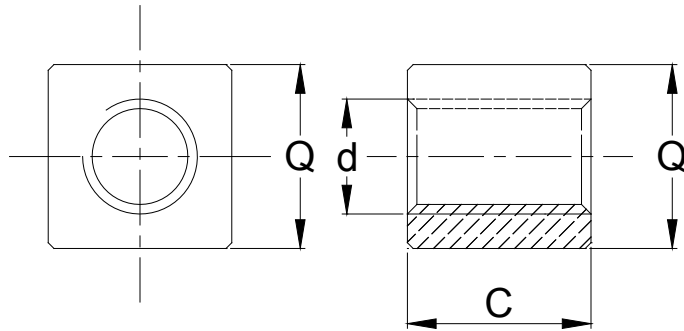
Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	Pitch	SW	L	Weight (kg)	Code	d	Pitch	SW	L	Weight (kg)
HXN: with single-thread.						HXN: with 2-start thread.					
HXN-Tr10x2	10	2	17	15	0.022	HXN-Tr12x6-2	12	3	19	18	0.033
HXN-Tr10x3	10	3	17	15	0.022	HXN-Tr14x6-2	14	3	22	21	0.056
HXN-Tr12x3	12	3	19	18	0.033	HXN-Tr16x8-2	16	4	24	24	0.065
HXN-Tr14x3	14	3	22	21	0.056	HXN-Tr18x8-2	18	4	27	27	0.095
HXN-Tr16x4	16	4	24	24	0.065	HXN-Tr20x8-2	20	4	30	30	0.123
HXN-Tr18x4	18	4	27	27	0.095	HXN-Tr22x10-2	22	5	30	33	0.135
HXN-Tr20x4	20	4	30	30	0.123	HXN-Tr24x10-2	24	5	36	36	0.213
HXN-Tr22x5	22	5	30	33	0.135	HXN-Tr28x10-2	28	5	41	42	0.310
HXN-Tr24x5	24	5	36	36	0.213	HXN-Tr30x12-2	30	6	46	45	0.447
HXN-Tr26x5	26	5	36	39	0.225	HXN-Tr32x12-2	32	6	50	48	0.455
HXN-Tr28x5	28	5	41	42	0.310	HXN-Tr36x12-2	36	6	55	54	0.752
HXN-Tr30x6	30	6	46	45	0.447	HXN-Tr40x14-2	40	7	60	60	1.250
HXN-Tr32x6	32	6	50	48	0.455	HXN-Tr24x10-2	24	5	36	36	0.213
HXN-Tr36x6	36	6	55	54	0.752	HXN-Tr28x10-2	28	5	41	42	0.310
HXN-Tr40x7	40	7	60	60	1.250	HXN-Tr30x12-2	30	6	46	45	0.447
HXN-Tr44x7	44	7	65	66	1.320	HXN-Tr32x12-2	32	6	50	48	0.455
HXN-Tr50x8	50	8	75	75	1.895	HXN-Tr36x12-2	36	6	55	54	0.752
HXN-Tr60x9	60	9	90	90	3.30	HXN-Tr40x14-2	40	7	60	60	1.250
HXN-Tr70x10	70	10	100	100	4.20						

Other sizes, dimensions and shapes are available upon request.

# Lead Screw

## Square Nut-SQN



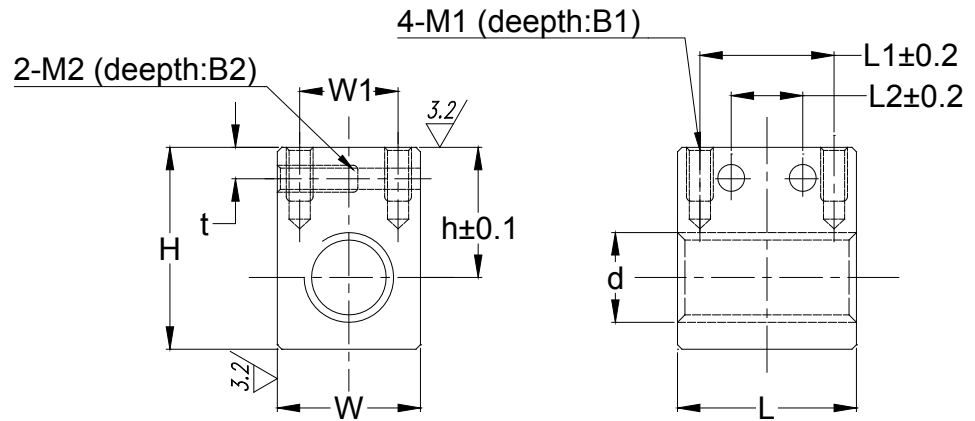
Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	Pitch	Q	C	Weight (kg)	Code	d	Pitch	Q	C	Weight (kg)
SQN: with single start.						SQN: with 2-start thread..					
SQN-10x2	10	2	17	15	0.027	SQN-14x6-2	14	3	25	20	0.079
SQN-12x3	12	3	25	18	0.076	SQN-16x8-2	16	4	28	24	0.119
SQN-14x3	14	3	25	20	0.079	SQN-18x8-2	18	4	30	28	0.154
SQN-16x4	16	4	28	24	0.119	SQN-20x8-2	20	4	35	30	0.259
SQN-18x4	18	4	30	28	0.154	SQN-22x10-2	22	5	35	33	0.290
SQN-20x4	20	4	35	30	0.259	SQN-24x10-2	24	5	40	36	0.354
SQN-22x5	22	5	35	33	0.290	SQN-28x10-2	28	5	45	42	0.506
SQN-24x5	24	5	40	36	0.354	SQN-30x12-2	30	6	45	45	0.513
SQN-26x5	26	5	40	39	0.363	SQN-32x12-2	32	6	55	48	0.891
SQN-28x5	28	5	45	42	0.506	SQN-36x12-2	36	6	55	54	0.752
SQN-30x6	30	6	45	45	0.513	SQN-40x14-2	40	7	60	60	1.216
SQN-32x6	32	6	55	48	0.891						
SQN-36x6	36	6	55	54	0.752						
SQN-40x7	40	7	60	60	1.216						
SQN-44x7	44	7	65	66	1.538						
Code	d	Pitch	Q	C	Weight (kg)	Code	d	Pitch	Q	C	Weight (kg)

Other sizes, dimensions and shapes are available upon request.

# Lead Screw

## Square Nut-SQN

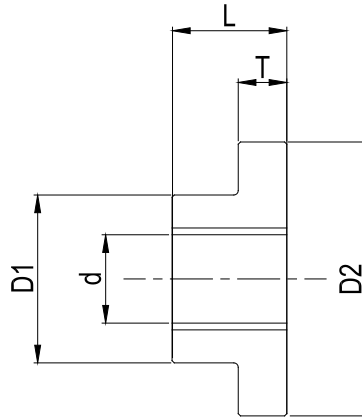


Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	pitch	W	L	H	h	L1	L2	B1	B2	W1	M1	M2	t	Dynamic Load (KN)
SQTH-10x □	10	2 (3, 4, 5, 6, 8, 9)	20	24	30	20	16	/	8	/	12	M4	/	6	2.55
SQTH-12x □	12		22	30	34	23	21	9	10	15	13	M5	M5	6	3.92
SQTH-14x □	14	3 (2, 4, 6, 8, 9)	22	30	34	23	21	9	10	15	13	M5	M5	6	4.90
SQTH-16x □	16		28	35	41	27	25	11	12	18	18	M6	M6	7	6.67
SQTH-18x □	18	4 (2, 3, 5, 6)	32	40	45	29	30	16	12	18	22	M6	M6	7	8.72
SQTH-20x □	20		32	40	45	29	30	16	12	18	22	M6	M6	7	9.81
SQTH-22x □	22	5 (2, 3, 4, 6)	36	50	48	30	40	20	12	18	26	M6	M6	7	12.36
SQTH-25x □	25		36	50	48	30	40	20	12	18	26	M6	M6	7	14.22
SQTH-28x □	28		44	62	60	38	50	25	16	22	32	M8	M8	8	20.05
SQTH-32x □	32	6 (3, 4, 5, 7, 8)	44	62	60	38	50	25	16	22	32	M8	M8	8	22.81
Code	d	pitch	W	L	H	h	L1	L2	B1	B2	W1	M1	M2	t	Dynamic Load (KN)
Other sizes, dimensions and shapes are available upon request.															

# Lead Screw

## Round Nut in small length-RNSL



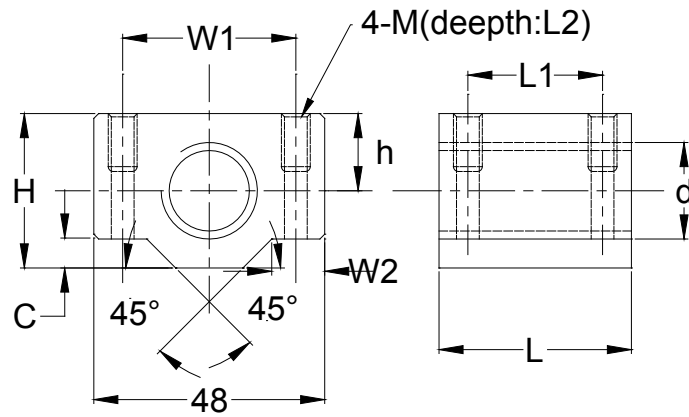
Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	pitch	D1	D2	L1	L2	Weight (kg)	
							Bronze	Steel
RNSL-10x3	10	3	20	35	15	6	0.165	0.160
RNSL-12x3	12	3	24	42	20	7	0.291	0.280
RNSL-14x4	14	4	30	52	24	10	0.437	0.420
RNSL-16x4	16	4	30	52	24	10	0.437	0.420
RNSL-20x4	20	4	38	62	26	11	0.540	0.520
RNSL-24x5	24	5	50	77	33	13	1.245	1.200
RNSL-30x6	30	6	58	90	48	15	1.790	1.750
RNSL-36x6	36	6	80	115	60	20	3.400	3.310
RNSL-40x7	40	7	80	140	65	20	4.340	4.230
RNSL-50x8	50	8	90	170	70	20	5.690	5.500
Code	d	pitch	D1	D2	L1	L2	Weight (kg)	
							Bronze	Steel

Other sizes, dimensions and shapes are available upon request.

# Lead Screw

## Widened Square Nut-WSQN



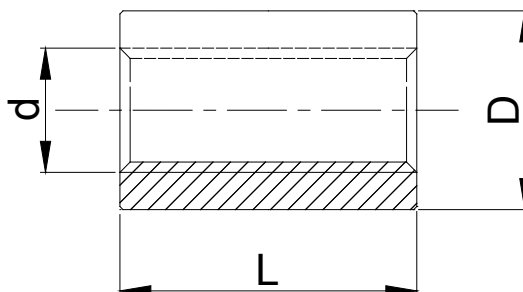
Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	pitch	W	H	L	H	W1	W2	C	M	L2	Dynamic Load(KN)
WSQN -10x □	10	2 (3, 4, 5, 6, 8, 9)	30	20	24	10	20	8	4	M4	8	2.55
WSQN -12x □	12		38	22	30	11	26	10	5	M5	10	3.92
WSQN -14x □	14	3 (2, 4, 5, 6, 8, 9)	38	2	30	11	26	10	5	M5	10	4.90
WSQN -16x □	16		44	28	35	14	32	10	5	M5	10	6.67
WSQN -18x □	18	4 (2, 3, 5, 6)	48	32	40	16	36	11	6	M6	12	8.72
WSQN -20x □	20		48	32	40	16	36	11	6	M6	12	9.81
WSQN -22x □	22	5 (2, 3, 4, 6)	62	38	50	20	46	14	10	M8	16	12.36
WSQN -25x □	25		62	38	50	20	46	14	10	M8	16	14.22
WSQN -28x □	28		68	47	56	25	52	14	10	M8	16	17.95
WSQN -32x □	32	6 (3, 4, 5, 7, 8)	68	47	56	25	52	14	10	M8	16	21.08
Code	d	pitch	W	H	L	H	W1	W2	C	M	L2	Dynamic Load(KN)
Other sizes, dimensions and shapes are available upon request.												



# Lead Screw

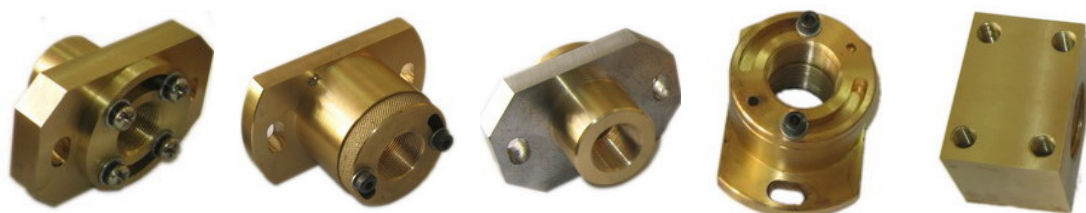
## Plastic Round Nut -PRN



Stock Material: Bronze, Casting Iron; Other materials upon request: Brass, Steel etc.

Code	d	pitch	D	L	Code	d	pitch	D	L
PRN: with single-start.					PRN: with 2-start thread.				
PRN-12x3	12	3	26	24	PRN-12x6-2	12	3	26	24
PRN-16x4	16	4	36	32	PRN-12x8-2	12	4	26	24
PRN-20x4	20	4	45	40	PRN-16x8-2	16	4	36	32
PRN-24x5	24	5	50	48	PRN-20x8-2	20	4	45	45
PRN-30x6	30	6	60	60	PRN-24x10-2	30	6	50	48
PRN-36x6	36	6	75	72	PRN-30x12-2	30	6	60	60
PRN-40x7	40	7	80	80	PRN-36x12-2	36	6	75	72
PRN-50x8	50	8	90	100	PRN-40x14-2	40	7	80	80

Other sizes, dimensions and shapes are available upon request.



苏州斯科勒自动化设备有限公司  
SCREW TECHNOLOGY CO.,Limited

Add.: No 988,Wusong Road,Wuzhong District,Suzhou,China

Tel:+86 15862406535

Email:kathy@screwtech.cn

<http://www.screw-tech.com/>