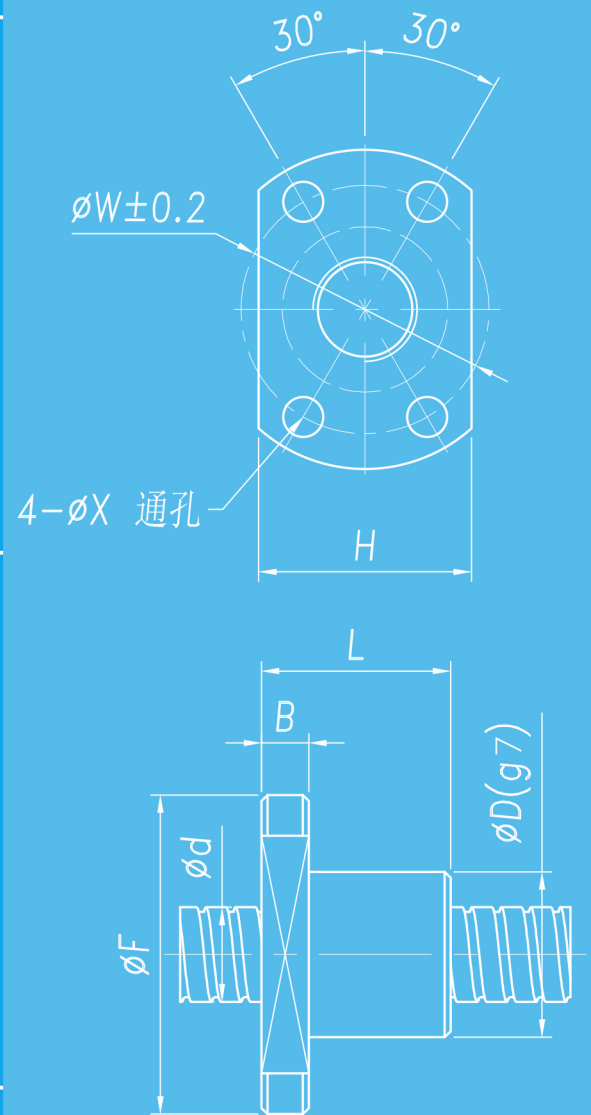


# ***WKT***<sup>®</sup> Ball Screw Precision Small and Miniature

## Factory Automation (FA)



Screw Technology Co., Ltd was founded in 2011. Since its establishment, SCREWTECH has always been committed to the research and development, production and sales of Linear Motion products. As well as high-quality Linear Motion products, SCREWTECH also provide design consulting services. “Profession, Honest and Efficiency ” is our philosophy. In order to achieve the goal of “quality first and service first” , SCREWTECH has been constantly improving the quality control system and management system.

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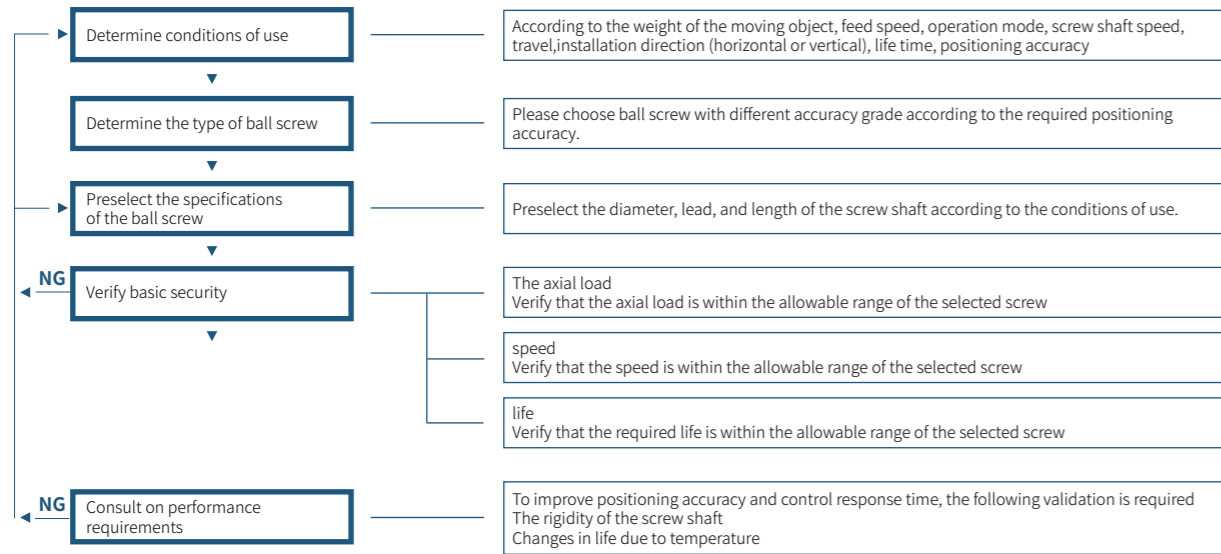
## 02 Standard Ball Screw Nut

Nominal diameter 4/5/6 .....	005
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**Ball screw model selection steps**

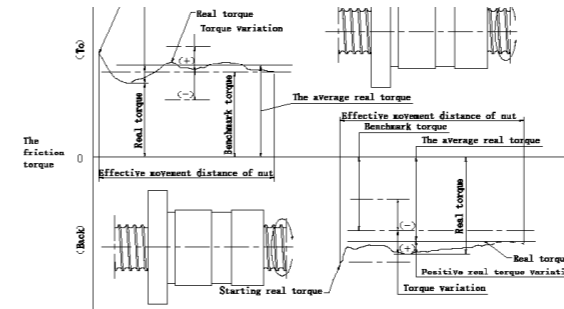


**Precision requirements for ball screw for different purposes**

Purposes	Axis	Accuracy Grade								
		C0	C1	C2	C3	C5	C7	C8	C10	
CNC Machine tool	Lathe	X		●	●	●	●			
		Z				●	●			
	Processing center machine	XY			●	●	●			
		Z			●	●	●			
	Drilling machine	XY				●	●			
		Z					●	●		
	Coordinate boring machine	XY	●	●						
		Z	●	●						
	Surface grinding machine	X				●	●			
		Y		●	●	●	●			
		Z		●	●	●	●			
	Cylindrical grinding machine	X	●	●	●					
		Z		●	●	●				
	Electric discharge machine	XY	●	●	●					
Z		●	●	●	●					
Wire cutting machine	XY	●	●	●						
	Z	●	●	●	●					
	UV		●	●	●					
Die-cutting machine	XY				●	●	●			
	Z				●	●	●			
Laser processing machine	X				●	●	●			
	Z				●	●	●			
Woodworking machine					●	●	●	●	●	
General machinery, special machinery					●	●	●	●	●	
Industrial robot	Rectangular coordinate machine	Assembly				●	●	●	●	
		Other					●	●	●	
	Vertical multi-joint type	Assembly					●	●	●	
		Other						●	●	
Cylindrical coordinates					●	●	●			
Semiconductor related equipment	Exposure device	●	●							
	Chemical processing machinery		●	●	●	●		●	●	
	Lead welding machine		●	●						
	Probe	●	●	●	●	●				
	Printed circuit board drilling machine		●	●	●	●	●			
Electronic component insertion machine			●	●	●	●				
Three coordinate measuring equipment		●	●	●						
Image processing equipment		●	●	●						
Injection molding machine						●	●	●		
Office equipment						●	●	●		

**Appropriate amount of preloading**

The amount of preloading should be determined by the required rigidity or by the tooth side clearance. However, preloading may have the following effects:  
1. Dynamic torque increases  
2. The positioning accuracy is reduced due to heating and temperature rise  
3. Shorten service life  
Therefore, a low preload should be set as far as possible.

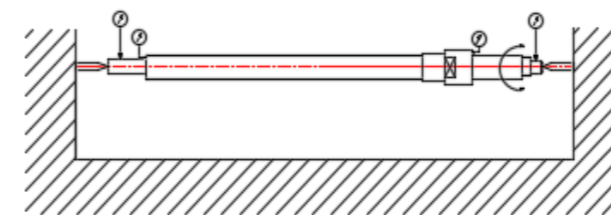


**Method for measuring precision of ball screw assembling part**

**WKT ball screw measuring Geometric Tolerance based on screw shaft central axis, below is measuring process:**

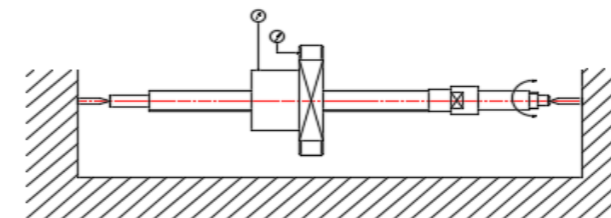
Using a qualified deflection instrument (or machine tool with a center). Withstanding two ends of the screw by center, so that the screw is supported on the deflection instrument or machine tool smoothly. The magnetic dial seat of the dial indicator is attracted On the surface of the deflection instrument or the machine tool guide rail. At the same time, the probe of the meter head should be at the angle of <30° with the surface to be measured, and touch the measurement part; rotating dial makes the pointer to 0, while rotating the screw, Reading the dial indication. During a rotation period, the scale within the range of the dial pointer's left-right deflection is the measured data.

This method can measure the runout of any outside surface of the screw and the central. As shown below:



**The perpendicularity of the central axis and the end surface of the nut (or flange assembling surface)**

Using a qualified instrument (or machine tool with a center), Withstanding two ends by center, so that the screw is supported on the deflection instrument or machine tool smoothly. See the below drawings:



Measuring nut's external diameter runout, attaching the magnetic dial base of the dial indicator to the surface of the deflection instrument or the machine tool guide rail, at the same time, the probe of the meter head is lightly touched on the measurement position in an attitude with the angle of <30; Rotating the dial makes pointer to 0, while rotating the screw (there is no relative movement between the screw and nut), reading dial indication. Within one rotation period, the scale left and right deflection of the dial pointer is the measured value; if measuring nut's end face runout, the dial indicator must be installed on the base of the height ruler which can be adjusted manually. The base of the height ruler is installed on the surface of the guide rail. Put meter head vertically on screw nut end surface, rotating hand to make dial indicator a vertical motion. The scale within the range of the dial pointer deflection is the measured data.

**Precautions for the use of ball screw**

**Precautions for handling and installation**

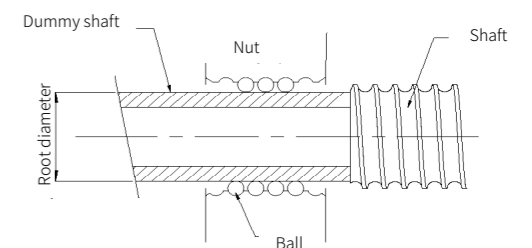
1. If the nut is removed from the screw shaft, the steel balls will fall out of the nut and make it unusable. Do not disassemble. Otherwise, impurities will enter the interior and damage the assembly precision of each part. When need to remove the nut, please use the special false axis.
2. Do not impact the nut External shock will damage the outer circle of the screw shaft, spiral groove and circulation parts, resulting in poor circulation and loss of function. Please avoid it.
3. Pay attention to the nut falling off due to free fall Tilting ball screws and nuts may fall due to dead weight, please pay attention. Especially when used as the vertical axis, the possibility of nut falling due to dead weight is greater, please set the fall prevention mechanism.
4. Check screw smoothness before use Test the flexibility by turning the screw shaft with the fixing nut, or by turning the nut with the fixing shaft.

**Precautions for use**

1. Please use the ball screw in a clean environment If garbage, chips and other foreign bodies enter the ball screw, it will lead to damage to the ball circulation parts and loss of function, so please set a cover to prevent foreign bodies.
2. Do not make the ball screw nut overrun during use. Otherwise it will lead to ball drop and ball circulation parts damage and other faults.
3. Please avoid using in an environment over 80°C. Failure to do so may result in damage to circulation parts and seals.
4. When the support part of the ball screw shaft and the nut produce axial deviation or tilt, the nut will bear off-load, which will lead to shortened service life in serious cases, so please pay attention to the assembly precision.

**Remove nut from screw to false shaft**

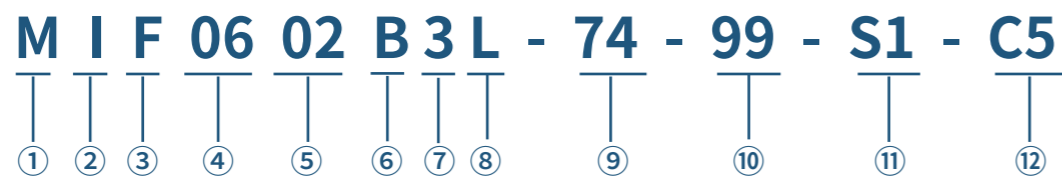
- remove nut from screw shaft -
- Make the lead screw shaft into a vertical state, and align the axis of the auxiliary shaft with the lead screw shaft at the end face of the supporting side of the lead screw shaft.
- Gently turn the nut and slowly move it to the auxiliary shaft.
- After confirming that both ends of the nut have been completely moved to the auxiliary shaft, remove the auxiliary shaft from the lead screw shaft.
- Please take good care of it. Do not let the nut fall off the auxiliary shaft.



**Install the nut from the false shaft to the screw rod**

- Remove the nut from the auxiliary shaft to the screw shaft -
- Make the lead screw shaft into a vertical state, and align the axis of the auxiliary shaft with the lead screw shaft at the end face of the supporting side of the lead screw shaft.
- Gently press the nut in the direction of the screw shaft and rotate it slowly to the screw shaft.
- When moving the nut to the lead screw axis, if there is a tight or stuck feeling, do not force the nut to move, carefully check the situation and then re-work.

Part Number / Ordering information

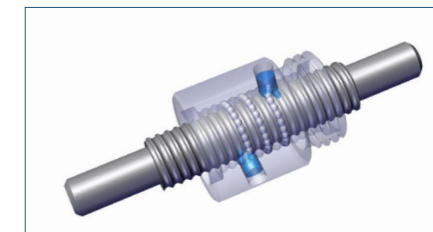


Number	Representative name	Marking mode	Meaning	
①	Thread type code	M	standard nut	
		G	custom ballnut	
②	Cycle mode	I	Floating deflector	
		U	waist shaped floating deflector	
		K	Cutting-type deflector	
		P	Cover plate deflector	
		W	Intubated deflector	
		E	End cover deflector	
③	Nut shape	F	O	Round nut with flange without milling flat
			H	Round nut with flange double milled flat
			Y	Round nut with flange milling tripartite
			X	Round nut with flange milled square
			L	Round nut with flange milling hexagon
		A	Round nut with Metric Thread at one end	
	B	Round or square with ears		
	C	Cylindrical with keyway		
④	Nominal diameter	value	unit mm	
⑤	Lead	value	unit mm	
⑥	Extra code letters	letter	B, C, D, E, F, G, of the same specification, there are more than one mother, distinguish with letters, such as MIF0802B (the first standard mother A omitted)	
⑦	Number of circuit	Numerical value	Number of turns	
⑧	Rotation direction	LH\RL	LH = left-hand, RL = left hand + right hand, right hand is not marked	
⑨	Total length of thread	value	Length of thread	
⑩	Length of shaft	value	Length of ball screw shaft	
⑪	Material	G (not marked by default)	GCr15	
		S1	SS304	
		S2	SS316	
		S3	SS316L	
		S4	SS440C (9Cr18)	
⑫	Accuracy grade	C+Number	Accuracy grade of ball screw	

Steel ball circulation mode

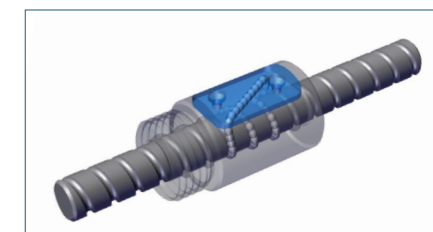
Internal Deflector

Internal Deflector return is the most basic and widely used, with the help of path on the role of the bead groove, forcing the ball rolling along the raceway, over the screw thread raceway after the tooth tip, back to the initial raceway, formed a circular ball chain, suitable for all kinds of diameter and nut style. In all circulation systems, the nut diameter Internal Deflector return can be minimized, suitable for all kinds of precision micro equipment.



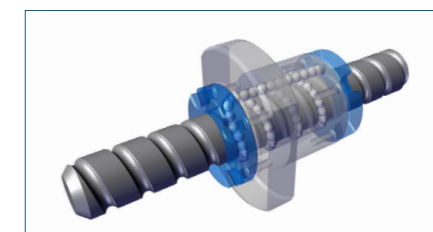
Return Plate

Nut with return plate, suitable for large lead ball screw, large load, and low in cost.



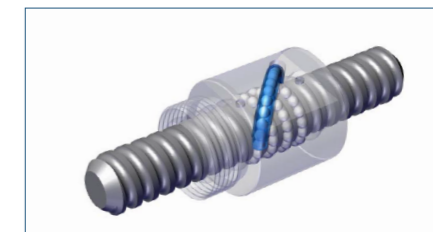
End-cap

Refers to the way in which the steel ball rolls along the groove between the screw shaft and the nut, passes through the through hole on the nut through the path installed on the end cover backer at both ends of the nut, and returns to the original position. It has stronger scraping effect, and the strengthening of the circulating backflow structure increases the function of high rigidity and high speed. It is suitable for the design of high speed light load and low noise.



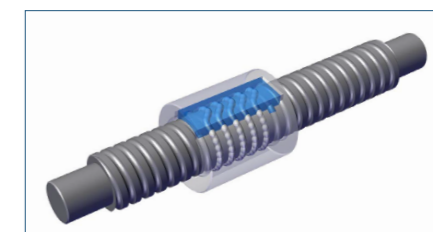
Return Tube

The return tube recirculation type is an evolution from the internal deflector. To guide the balls into and out of the elbow tube by means of a tongue level at the end of the elbow tube inserted into the hole or other form of bead stopper.



Liner Return

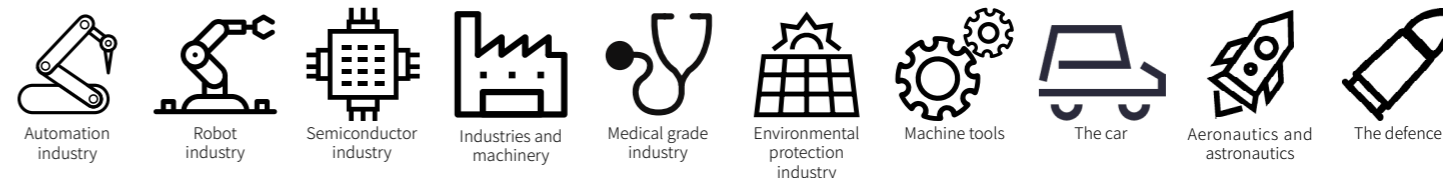
Liner Return type has the advantages of small space and high load capacity, while with higher difficulty. So this type is proper for some special situations.



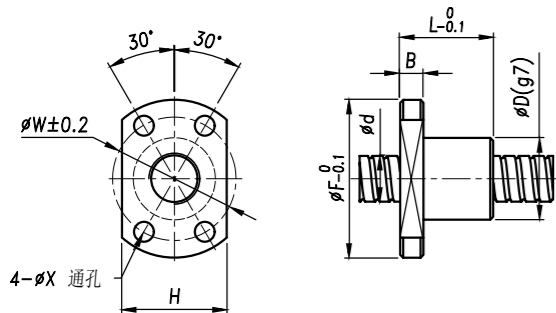
Professional supplier of transmission components

Screwtech has a full range products including ball screw, lead screw, support units, coupling, linear guideways, linear module, positioning slides, linear actuator, etc.

The abilities of providing technical support, solutions and customized services make SCREWTECH your best choice for partners.

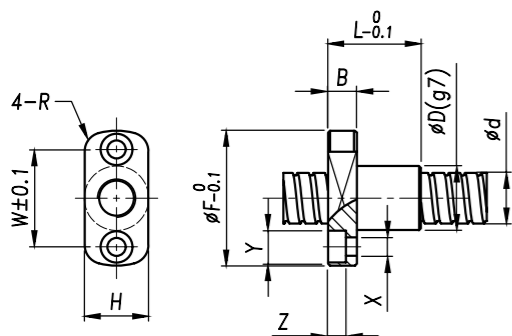


**MIF**



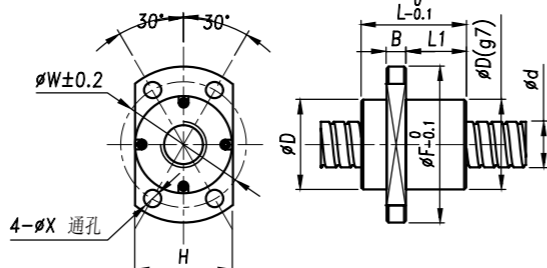
Model	d	D	F	L	B	W	H	X
MIF0401	4	10	20	12	3	15	14	2.9
MIF0501	5	10	20	12	3	15	14	2.9
MIF0601	6	12	24	15	3.5	18	16	3.4
MIF0601B	6	13	26	17	4	20	16	3.4
MIF0601C	6	11	23	14.5	3.5	17	15	3.4
MIF0602	6	12	24	15	3.5	18	16	3.4
MIF0602B	6	15	28	17	4	22	19	3.4

**MIF**



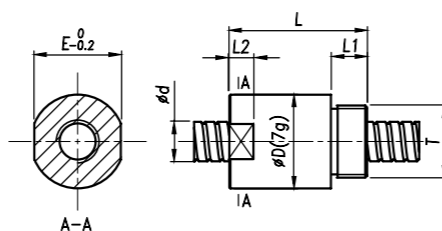
Model	d	D	F	L	B	W	H	X	Y	Z	R
MIF0601D	6	10	21	14.5	4.5	15	10	2.9	5	2.9	3

**MEF**



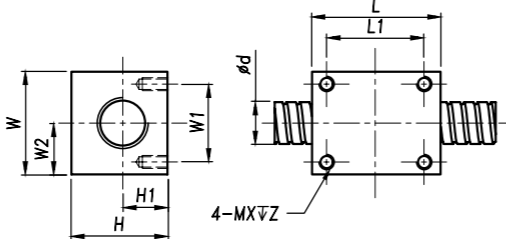
Model	d	D	F	L	L1	B	W	H	X
MEF0606	6	14	27	17	9.5	4	21	16	3.4

**MIA**



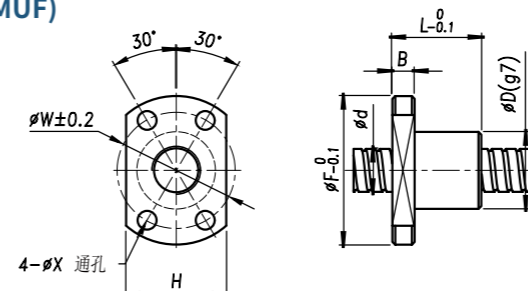
Model	d	D	L	L1	L2	E	T
MIA0601B	6	12	15	5	-	-	M10x1
MIA0602	6	12	20	6	-	-	M10x1
MIA0602B	6	12	16	5	-	-	M10x1
MIA0602C	6	12	20	6	8	11	M10x1

**MIS**



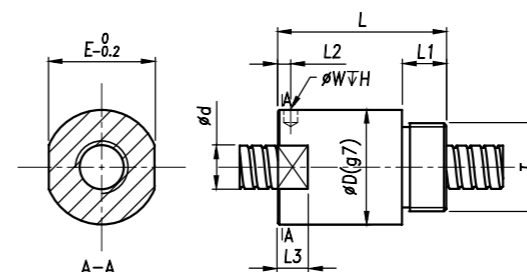
Model	d	L	L1	W	W1	W2	H	H1	X	Z
MIS0601	6	16	12	14	10	7	12	6	2.5	5
MIS0601B	6	20	15	13	8	6.5	11	5.5	2.5	5
MIS0601C	6	15	10	15	10	7.5	12.5	6.5	2.5	5.5

**MIF(MUF)**



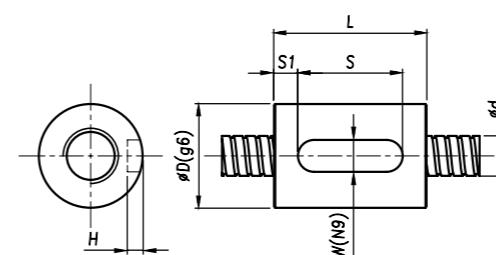
Model	d	D	F	L	B	W	H	X	油孔
MIF0801	8	14	27	16	4	21	18	3.4	-
MIF0801B	8	16	29	17	4	23	18	3.4	-
MIF0801C	8	13	26	15	4	20	17	3.4	-
MIF0801D	8	12	25	15	4	19	16	3.4	-
MIF0802	8	14	27	16	4	21	18	3.4	-
MIF0802B	8	16	29	26	4	23	20	3.4	-
MIF0802C	8	15	28	18	4	22	19	3.4	-
MIF0802D	8	14	27	17	6	21	19	3.4	-
MIF0802E	8	15	28	22	5	22	19	3.4	-
MIF0802.5	8	16	29	26	4	23	20	3.4	-
MIF0802.5B	8	16	28	30	6	22	19	3.4	-
MUF0804	8	16	29	16	4	23	20	3.4	-

**MIA**



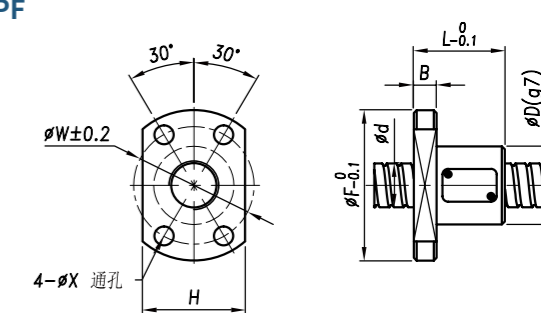
Model	d	D	L	L1	L2	L3	W	H	E	T
MIA0801	8	16	22	8	-	-	-	-	-	M14x1
MIA0802	8	16	27	8	-	-	-	-	-	M14x1
MIA0802B	8	18	27	8	5	5	-	17	-	M14x1
MIA0802.5B	8	17.5	23.5	7.5	3	-	3.2	2	-	M15x1

**MIC**



Model	d	D	L	S	S1	W	H
MIC0801	8	14	16	10	3	3	1.8

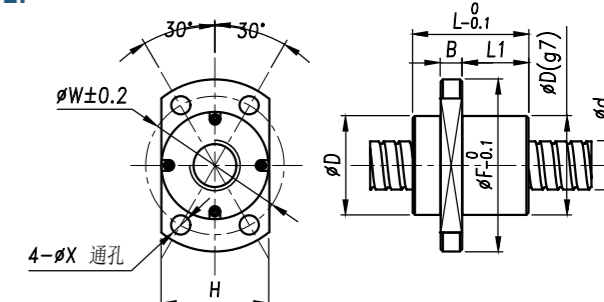
**MPF**



Model	d	D	F	L	B	W	H	X	油孔
MPF0804	8	21	39	28	5	31	23	4.5	-
MPF0804B	8	23	38	28	5	30	24	3.4	-
MPF0805	8	18	31	28	4	25	20	3.4	-

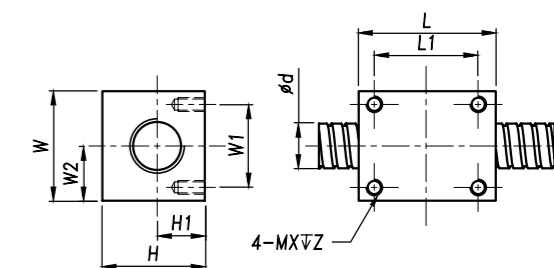
型号	d	D	F	L	L1	B	W	H	X	油孔
MPF0808	8	18	31	30	6	4	25	20	3.4	-

**MEF**



Model	d	D	L	L1	F	B	W	H	X	油孔
MEF0808	8	18	21.5	13	31	4	25	20	3.4	-

**MIS**



Model	d	L	L1	W	W1	W2	H	H1	X	Z
MIS0801	8	20	15	16	12	8	15	7	2.5	5
MIS0801B	8	20	15	14	8	7	13	6.5	2.5	5
MIS0802	8	20	15	16	12	8	15	7	2.5	5

Model	Nominal diameter (mm)	Lead (mm)	Accuracy grade	Ball Diameter	Circuts	Basic rated load(N)		Axial clearance (mm)	Preloading torque N*cm
						Dynamic load	Static load		
MIF	4	1	C3, C5,	0.8	3	490	700	0-0.005	-
	5	1		0.8	3	530	810	0-0.005	-
	6	1		0.8	3	580	1000	0-0.005	0.13
2		1.2		3	750	1200	0-0.005	0.13	
MIA	6	1		0.8	3	580	1000	0-0.005	-
		2		1.2	3	750	1200	0-0.005	-
MEF	6	6	1	3.2	870	1450	0-0.005	-	
MIS	6	1	0.8	3	660	1110	0-0.005	-	

The above models can be made as left hand thread, right hand thread or Bi-directinal(left hand+right hand) thread, special sizes can be customized.

Free service	Performance testing
	Selecion consultance
	Design Assistance
Please contact the salesman for details	

Services beyond standard sizes	Stainless steel and other customized materials
	Surface treatment
	Customized Ballscrew Nut and end journal
	Grease Replacing
	Maintenance and assembling
Please contact the salesman for details	

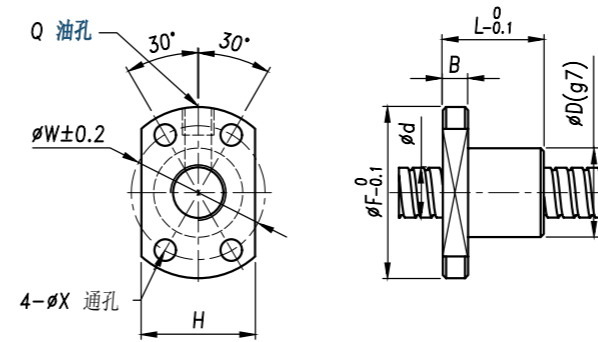
Free service	Performance testing
	Selecion consultance
	Design Assistance
Please contact the salesman for details	

Services beyond standard sizes	Stainless steel and other customized materials
	Surface treatment
	Customized Ballscrew Nut and end journal
	Grease Replacing
	Maintenance and assembling
Please contact the salesman for details	

Model	Nominal diameter (mm)	Lead (mm)	Accuracy grade	Ball Diameter	Circuits	Basic rated load(N)		Axial clearance (mm)	Preloading torque N*cm
						Dynamic load	Static load		
MIF	8	1	C3, C5,	0.8	3	780	1650	0-0.005	0.2
		2		1.2	3	1500	2600	0-0.005	0.2
		2.5		1.2	3	1850	3000	0-0.005	0.2
		4		1.588	3	2350	3300	0-0.005	0.2
MIA	8	1		0.8	4	780	1650	0-0.005	-
		2		1.2	4	1500	2600	0-0.005	-
		2.5		1.588	4	1850	3000	0-0.005	-
MIC	8	1		0.8	3	1350	2250	0-0.005	-
MEF	8	8		1.588	3.2	2200	3800	0-0.005	-
MPF	8	4		2	3.5	2600	4200	0-0.005	-
		5	1.588	2.5	1800	3000	0-0.005	-	
		8	1.588	2.5	1700	3400	0-0.005	-	
MIS	8	1	0.8	3	780	1650	0-0.005	-	
		2	1.2	3	850	1600	0-0.005	-	

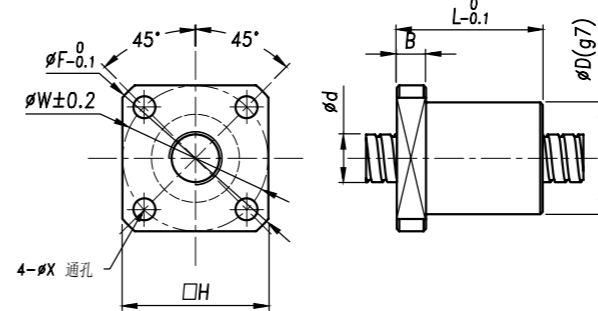
The above models can be made as left hand thread, right hand thread or Bi-directional(left hand+right hand) thread, special sizes can be customized.

**MIF**



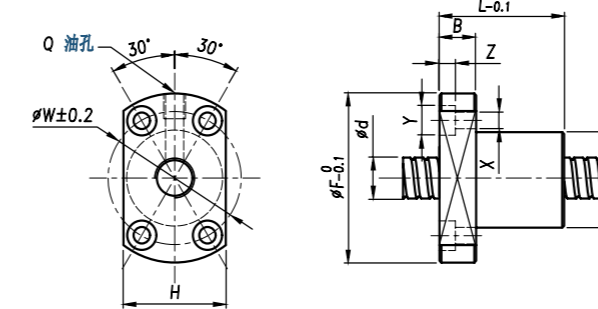
Model	d	D	F	L	B	W	H	X	Q
MIF1002	10	18	35	28	5	27	22	4.5	-
MIF1003	10	20	37	32	6	29	24	4.5	-
MIF1004	10	20	37	38	8	29	24	4.5	M5

**MIF**



Model	d	D	F	L	B	W	H	X	Q
MIF1003B	10	23	39	30	6	29.7	30	4.5	-
MIF1004B	10	23	41	30	6	30	30	4.5	-

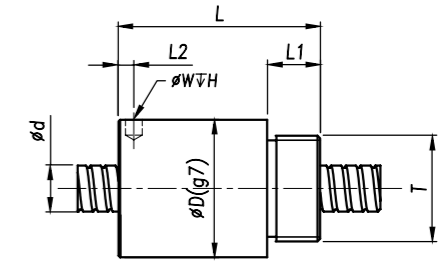
**MIF**



Model	d	D	F	L	B	W	H	X	Y	Z	Q
MIF1004C	10	26	46	34	10	36	28	4.5	8	4.5	M6

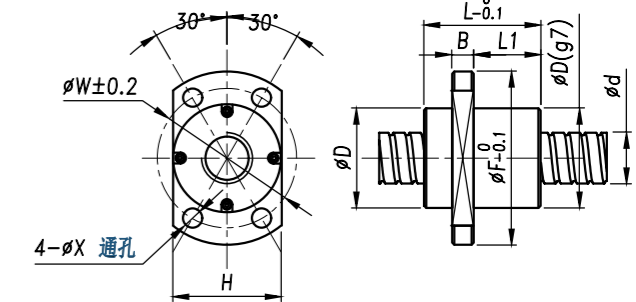
Free service	Performance testing
	Selection consultancy
	Design Assistance
Please contact the salesman for details	

**MIA**



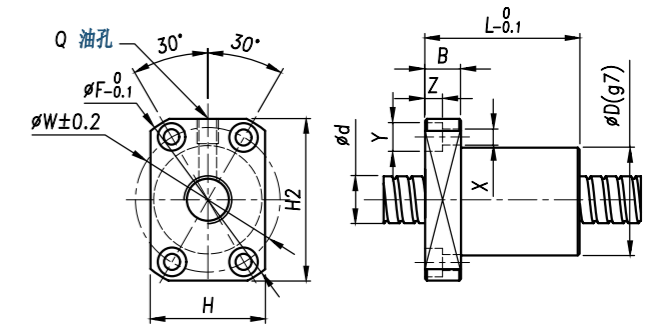
Model	d	D	L	L1	L2	W	H	T
MIA1002	10	19.5	22	7.5	3	3.2	2.5	M17x1
MIA1002B	10	18	28	7	-	-	-	M16x1
MIA1004	10	21	30	8	3	3.2	3	M18x1

**MEF**



Model	d	D	L	L1	F	B	W	H	X	Q
MEF1010	10	23	27	15.5	40	5	32	25	4.5	-

**MWF**



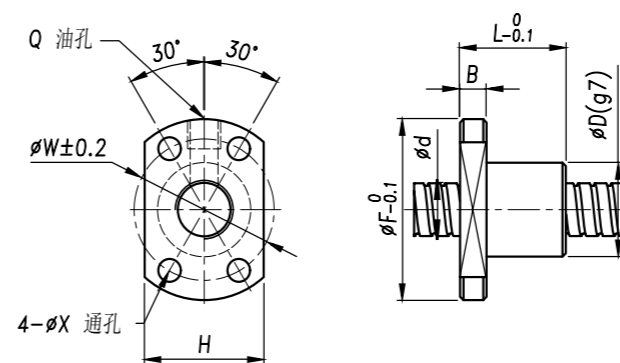
Model	d	D	F	L	B	W	H	H2	X	Y	Z	Q
MWF1004	10	26	46	34	10	36	28	42	4.5	8	4.4	M6

Services beyond standard sizes	Stainless steel and other customized materials
	Surface treatment
	Customized Ballscrew Nut and end journal
	Grease Replacing
Maintenance and assembling	
Please contact the salesman for details	

Model	Nominal diameter (mm)	Lead (mm)	Accuracy grade	Ball Diameter	Circuits	Basic rated load(N)		Axial clearance (mm)	Preloading torque N*cm
						Dynamic load	Static load		
MIF	10	2	C3, C5,	1.588	3	1500	2600	0-0.005	0.24
		3		2	3	2600	5200	0-0.005	0.24
		4		2.381	3	3000	5200	0-0.005	0.24
MIA	10	2		1.2	4	1950	3800	0-0.005	-
		4		2.381	3	3000	5200	0-0.005	-
MEF	10	10		2	3.2	3300	5900	0-0.005	-
MPF	10	10		2	2.5	2470	4600	0-0.005	-
MWF	10	4	2	2.5	3350	5900	0-0.005	-	

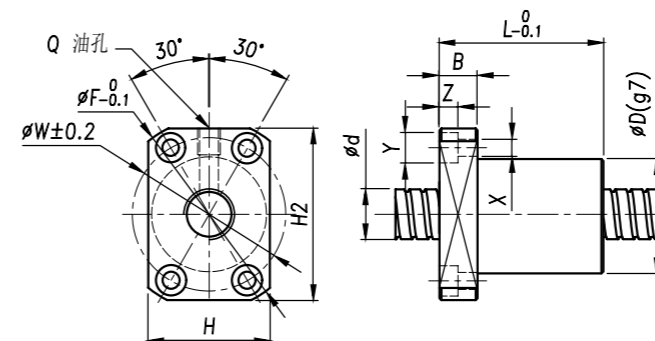
The above models can be made as left hand thread, right hand thread or Bi-directinal(left hand+right hand) thread, special sizes can be customized.

MIF



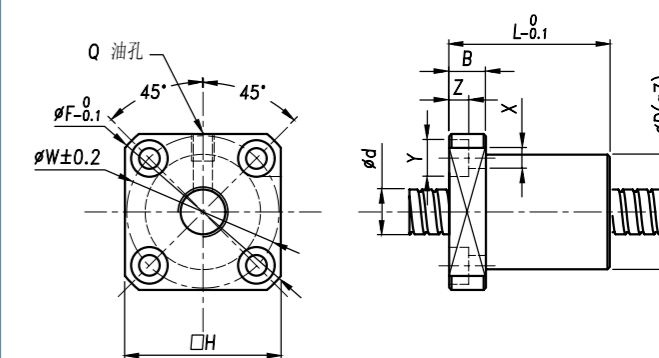
Model	d	D	F	L	B	W	H	X	Q
MIF1201	12	20	37	28	5	29	24	4.5	-
MIF1202	12	20	37	28	5	29	24	4.5	-
MIF1203	12	22	39	32	6	31	26	4.5	-
MIF1204C	12	24	40	28	6	32	25	3.5	-
MIF1205	12	22	43	38	8	31	26	4.5	M5

MIF



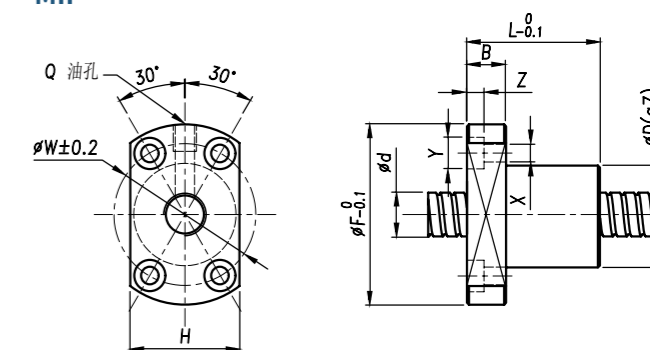
Model	d	D	F	L	B	W	H	X	Y	Z	H2	Q
MIF1202B	12	20	40	33	8	29	25	4.5	8	5	36	M5
MIF1204B	12	26	46	34	8	36	28	4.5	8	4.5	42	M5
MIF1205B	12	30	50	40	10	40	32	4.5	8	4	45	M6

MIF



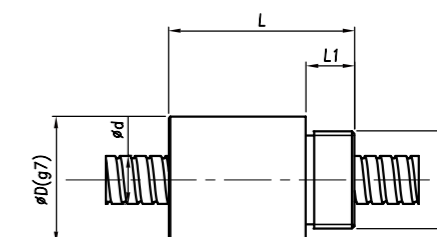
Model	d	D	F	L	B	W	H	X	Y	Z	Q
MIF1202C	12	25	44	35	8	33	34	4.5	8	4.4	M5

MIF



Model	d	D	F	L	B	W	H	X	Y	Z	Q
MIF1204D	12	24	44	40	10	34	34	4.5	8	4.5	M7

MIA

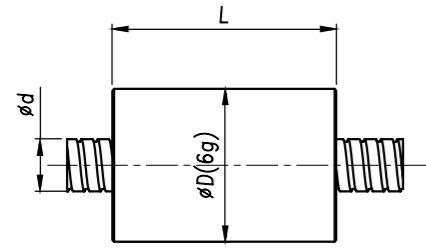


Model	d	D	L	L1	T
MIA1204	12	25.5	34	10	M20x1
MIA1205	12	24	38	10	M20x1
MIA1202	12	20	28	10	M18x1

Free service	Performance testing
	Selection consultancy
	Design Assistance
Please contact the salesman for details	

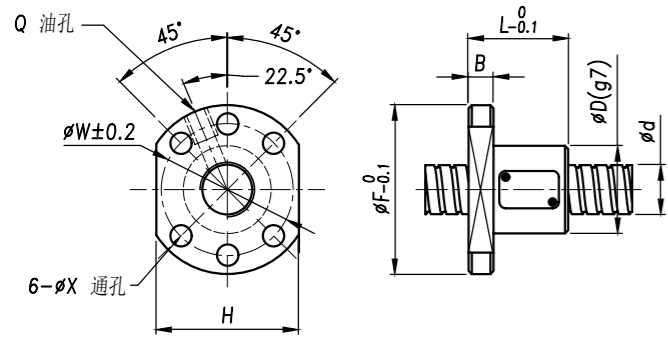
Services beyond standard sizes	Stainless steel and other customized materials
	Surface treatment
	Customized Ballscrew Nut and end journal
	Grease Replacing
Maintenance and assembling	
Please contact the salesman for details	

**MIC**



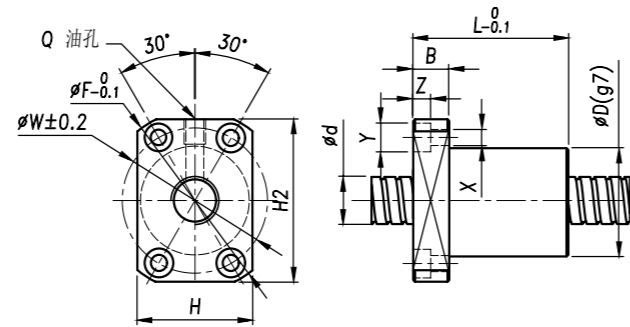
Model	d	D	L
MIC1205	12	22	30

**MPF**



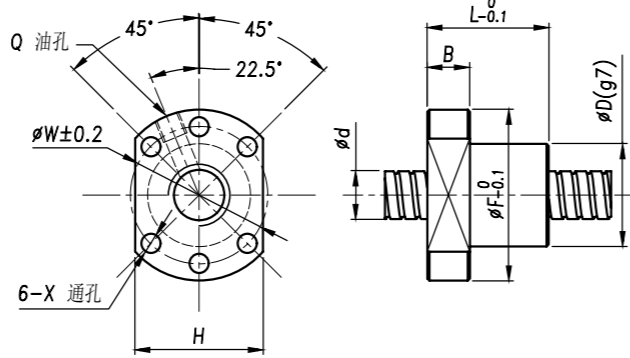
Model	d	D	F	L	B	W	H	X	Q
MPF1208	12	24	40	42	10	32	30	4.5	M6
MPF1210	12	24	40	48.5	10	32	30	4.5	M6

**MWF**



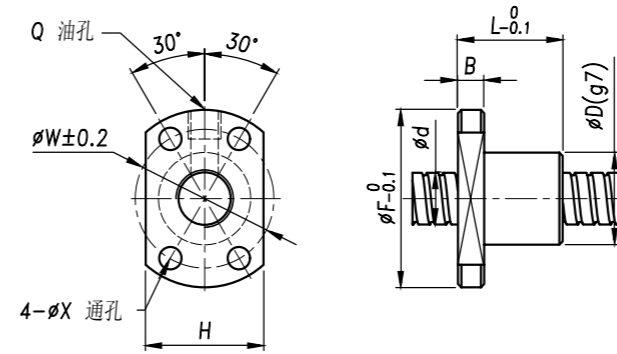
Model	d	D	F	L	B	W	H	H2	X	Y	Z	Q
MWF1210	12	30	50	50	10	40	32	45	4.5	8	4.4	M6

**MEF**



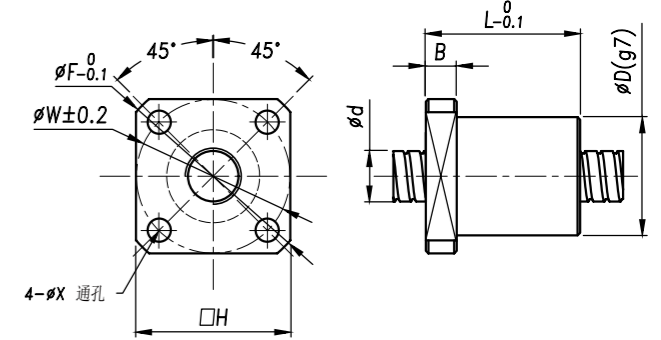
Model	d	D	F	L	B	W	H	X	Q
MEF1205	12	24	40	28.5	10	32	30	4.5	M6

**MIF**



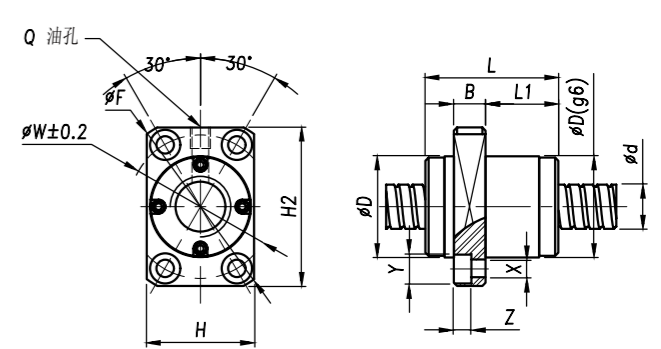
Model	d	D	F	L	B	W	H	X	Q
MIF1402	14	21	40	23	6	31	26	5.5	-
MIF1403	14	24	41	32	6	33	28	5.5	-
MIF1404	14	26	45	33	6	36	28	5.5	-
MIF1404B	14	26	45	36	8	35	28	5.5	M5
MIF1405	14	26	46	40	8	36	30	5.5	M5
MIF1602	16	25	43	40	10	35	29	5.5	M6
MIF2002	20	30	50	40	10	40	35	5.5	M6

**MIF**



Model	d	D	F	L	B	W	H	X	Q
MIF1405B	14	25	45.5	38	6	34	34	5	-

**MEF**



Model	d	D	F	L	L1	B	W	H	H2	X	Y	Z	Q
MEF1616	16	32	57	40	23	10	45	34	50	5.5	9.5	5.5	M6

Model	Nominal diameter (mm)	Lead (mm)	Accuracy grade	Ball Diameter	Circuits	Basic rated load(N)		Axial clearance (mm)	Preloading torque N*cm	
						Dynamic load	Static load			
MIF	12	1	C3, C5,	1.588	3	780	1600	0-0.005	0.35	
		2		1.588	3	3000	6000	0-0.005	0.35	
		3		1.588	3	3650	9900	0-0.005	0.35	
		4		2	3	4100	9900	0-0.005	0.35	
		5		2	3	6190	8830	0-0.005	0.35	
MIA	12	4	C3, C5,	2.5	3.5	4100	9900	0-0.005	-	
		5		2	3	8010	16440	0-0.005	-	
MIC	12	5		C3, C5,	2	3	6190	8820	0-0.005	-
		MPF			12	8	2.381	2.5	2840	5190
10	2.5					2.8	6420	12870	0-0.005	-
MWF	12	10	C3, C5,		2.381	2.5	3000	9800	0-0.005	-

The above models can be made as left hand thread, right hand thread or Bi-directional(left hand+right hand) thread, special sizes can be customized.

Model	Nominal diameter (mm)	Lead (mm)	Accuracy grade	Ball Diameter	Circuits	Basic rated load(N)		Axial clearance (mm)	Preloading torque N*cm
						Dynamic load	Static load		
MIF	14	2	C3, C5,	1.588	3	2890	6330	0-0.005	0.5
		3		1.588	3	2900	4600	0-0.005	0.5
		4		2.381	3	4500	8600	0-0.005	0.5
		5		3.175	3	5700	11600	0-0.005	0.5
		2		1.588	3	3730	12000	0-0.005	-

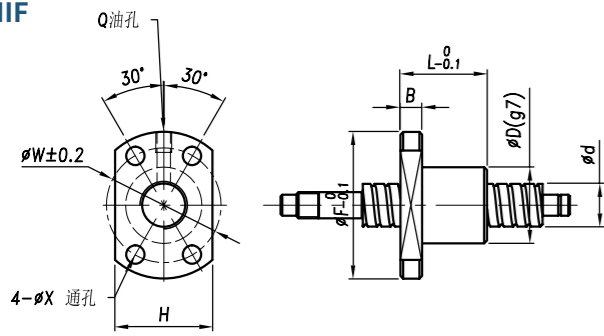
The above models can be made as left hand thread, right hand thread or Bi-directional(left hand+right hand) thread, special sizes can be customized.

Free service	Performance testing
	Selection consultancy
	Design Assistance
Please contact the salesman for details	

Services beyond standard sizes	Stainless steel and other customized materials
	Surface treatment
	Customized Ballscrew Nut and end journal
	Grease Replacing
Maintenance and assembling	
Please contact the salesman for details	

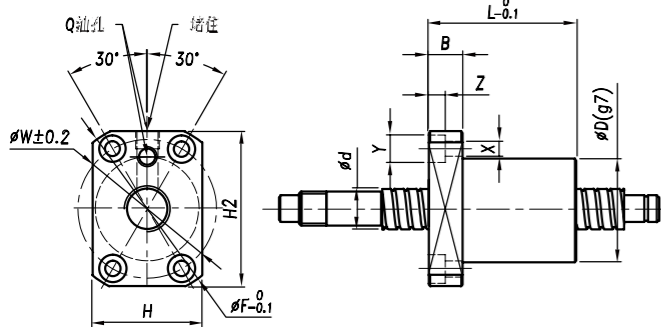


### MIF



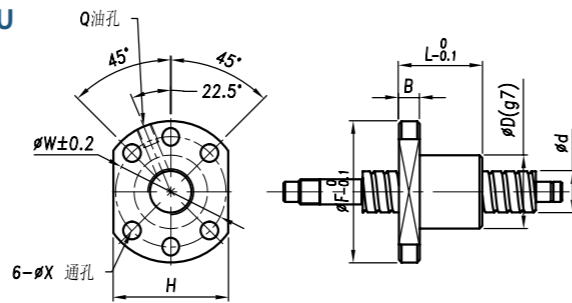
Model	d	L	Ball Diameter	Other Parameters
MIF0501	5	1	0.8	Ref P5
MIF0601	6	1	0.8	Ref P5
MIF0801	8	1	0.8	Ref P7
MIF0801.5		1.5	1.0	
MIF0802		2	1.2	
MIF1001	10	1	0.8	Ref P9
MIF1001.5		1.5	1.0	
MIF1002		2	1.2	
MIF1002.5		2.5	1.5875	
MIF1003		3	2.0	
MIF1004		4	2.0	
MIF1005	5	2.0		
MIF1201	12	1	0.8	Ref P11
MIF1202		2	1.2	
MIF1202.5		2.5	1.5875	
MIF1203		3	2.0	
MIF1204	4	2.381		
MIF1401	14	1	0.8	Ref P13
MIF1402		2	1.2	
MIF1402.5		2.5	1.5875	
MIF1403		3	2.0	
MIF1404		4	2.381	
MIF1405	5	2.381		
MIF1601	16	1	0.8	Ref P13
MIF1602		2	1.2	
MIF1603		3	2.0	

### MWF



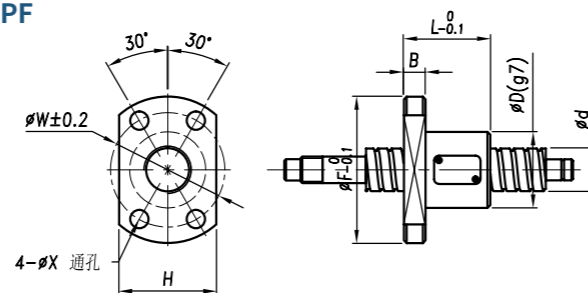
Model	d	L	Ball Diameter	Other Parameters
MWF1210	12	10	2.381	Ref P11

### SFU



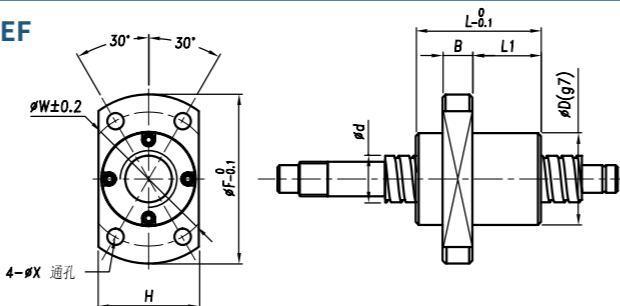
Model	d	L	Ball Diameter	Other Parameters
SFU1604-4	16	4	2.381	Pls contact salesman for more information
SFU1605-4		5	3.175	
SFU1610-3		10	3.175	
SFU2004-4	20	4	2.381	
SFU2005-4		5	3.175	
SFU2010-4	20	10	4.762	
SFU2504-4	25	4	2.381	
SFU2505-4		5	3.175	
SFU2506-4		6	3.969	
SFU2508-4		8	4.762	
SFU2510-4	10	4.762		

### MPF



Model	d	L	Ball Diameter	Other Parameters
MPF0805	8	5	1.5	Ref P7

### MEF



Model	d	L	Ball Diameter	Other Parameters
MEF0606	6	6	1.2	Ref P5
MEF0808	8	8	1.588	Ref P7
MEF1010	10	10	2	Ref P10
MEF1616	16	16	3.175	Ref P13

Notes:

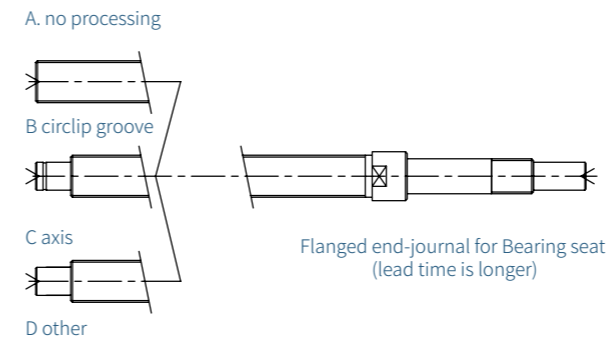
1. For the above standard bi-directional nut, you can refer to the technical parameters of right hand thread or left hand thread.
2. Nut size and shape can be customized as per your specific requirement or a detailed drawing.
3. Various material is available for both screw and nut. Kinds of surface coating is doable according to your requirement.
4. Standard ballnut in stock, fast delivery. For customized screw and ballnut, pls contact salesman for exact lead time.

### End-journal machining

Typical Journal Ends	Journal ends machining Symbol and Feature		Diagram
	Symbol	Features	
Fixed end(F)	F	coupling end+thread lock+bearing block	
	FM	coupling end(axial threaded hole)+thread lock+bearing block	
	FD	coupling end(milling with one cut face)+thread lock+bearing block	
	FH	coupling end(milling with two cut faces)+thread lock+bearing block	
	FX	coupling end(milling square)+thread lock+bearing block	
	FU	coupling end(key way)+thread lock+bearing block	

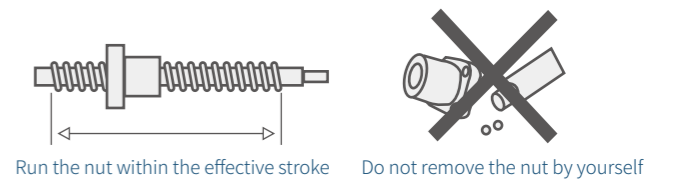
Screw Typical Journal Ends	Screw Journal ends machining Symbol and Feature		Diagram
	Symbol	Features	
Support end(S)	S	bearing block	
	SM	bearing block+axial threaded hole	
	SD	bearing block+circlip	
	SH	bearing block+milling with one cut face	
	SX	bearing block+milling with two cut faces	
	SU	bearing block+milling square	
	SC	bearing block+keyway	

### Flanged end-journal for Bearing seat



### Precautions for use

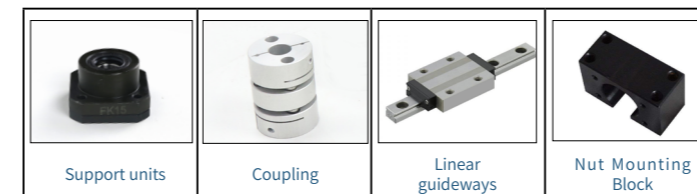
Do not rotate the nut beyond the effective travel of the ball screw or unscrew the screw. Otherwise, the ball will fall off and return to the damage of the results. Tilting the ball screw may cause the nut to fall off due to dead weight, please note.



### Note

Lithium base general grease No.2 (Chinese Brand Great Wall)  
Grease can be changed as required.

### Related accessories



If you have any other requirements, please contact the sales staff  
Telephone: +86-0512-66903936  
Website: www.screw-tech.com



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