

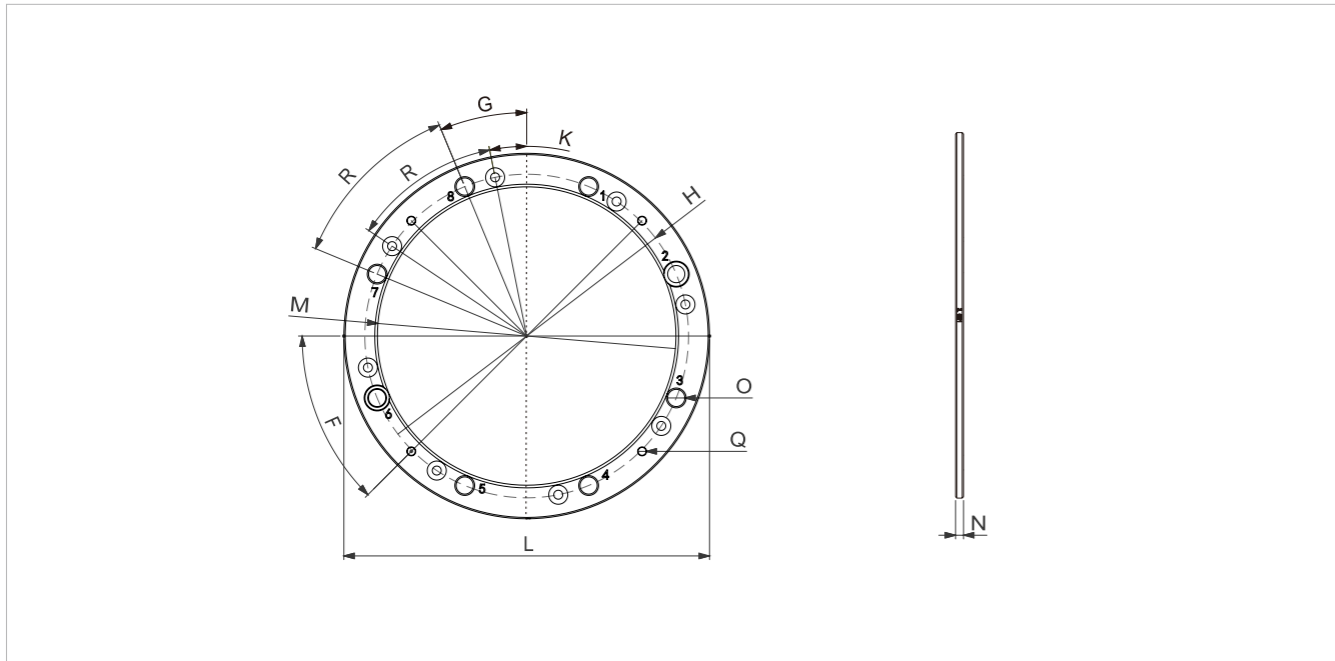
Gasket (K series specific)



Product features:

- Fine tune the height of the K series locator.

Outline dimensions:



Main parameter table:

Order Number	R	G	K	Ø H	Ø M	F	O	Q	ØL ^{-0.05} _{-0.1}	N ^{±0.002}	Weight (kg)
TZDP-20-K	8*45°	22.5°	11.25°	122	112.5	45°	8-Ø 6.5	4-Ø3	138	3	0.0123
TZDP-40-K	8*45°	22.5°	11.25°	152	142	45°	8-Ø 8.5	4-Ø3	172	3	0.14
TZDP-60-K	8*45°	22.5°	11.25°	166	150.5	45°	8-Ø 8.5	4-Ø3	187	4	0.026

Straight column ball lock zero locator accessory

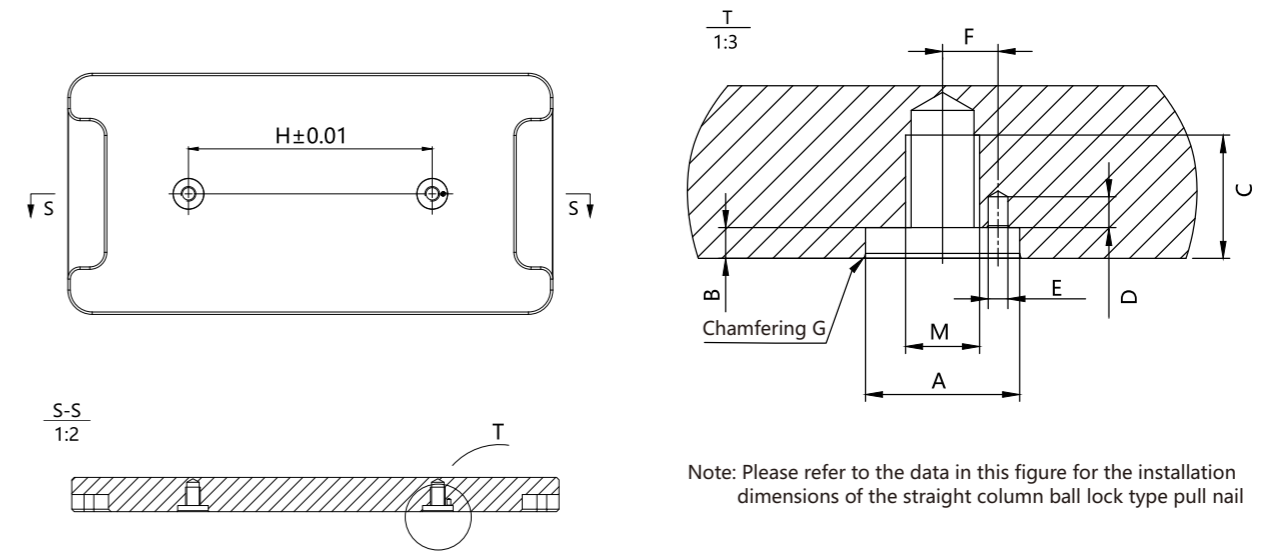
A positioning unit module that integrates high precision and high clamping force



Installation diagram of two station pull nails:



Two station nail installation dimension diagram:

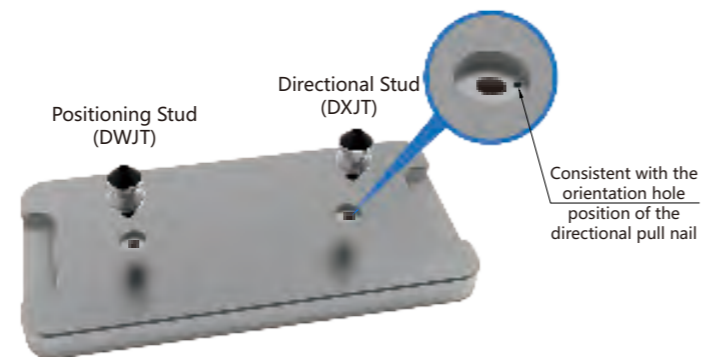


Installation diagram of two station pull nails:

There is only one installation method for two station stud installation:

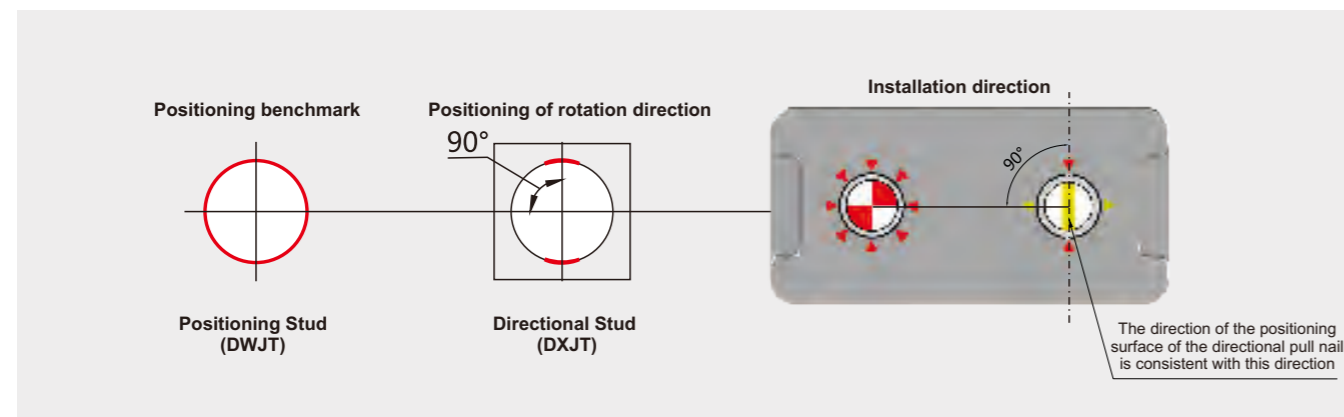
- Two types of rivets are required: one positioning rivet (DWJT) and one directional rivet (DXJT).
- Method: Install directional rivets (DXJT) into the installation slots with small holes on the switching board, and position rivets (DWJT) into another installation slot.

Example as shown in the figure:



Main parameter table:

Order Number	∅ A (0/+0.01mm)	B (+0.1mm)	C (min)	D	∅E (+0.1mm)	F (±0.04mm)	G	H	M	
Positioning stud	DWJT-2	10	2.4	12	/	/	/	0.5°15'	80	M6
	DWJT-5	14	3.2	13	/	/	/	0.5°15'	100	M8
	DWJT-10	15	3.2	15	/	/	/	0.5°15'	200	M8
	DWJT-20	25	5.2	24	/	/	/	1°15'	200	M12
	DWJT-40	30	6.2	26.5	/	/	/	1°15'	200	M16
Directional pull nail	DXJT-2	10	2.4	12	4	2.2	4.5	0.5°15'	80	M6
	DXJT-5	14	3.2	13	4	2.2	5.5	0.5°15'	100	M8
	DXJT-10	15	3.2	15	4	2.2	5.75	0.5°15'	200	M8
	DXJT-20	25	5.2	24	5	3.2	9	1°15'	200	M12
	DXJT-40	30	6.2	26.5	7	3.2	11.5	1°15'	200	M16



Installation diagram of four station pull nail

- ▲ This distribution pattern is suitable for general production environments.
- ▲ Positioning rivets serve to limit the degrees of freedom in the X and Y directions and become reference points;
- ▲ Directional rivets only limit the degree of freedom in the direction of rotation,
- ▲ The locking pull pin only serves to increase the clamping force,
- ▲ This can ensure the complete positioning of the entire tray and avoid over positioning.



Distribution of selectable zero point positioning rivets

- ▲ This distribution that only uses directional rivets,
- ▲ Suitable for use in environments with significant temperature effects,
- ▲ The center point always maintains its position unchanged,
- ▲ But this distribution requires a very high degree of positional accuracy for the installation holes of the rivets.



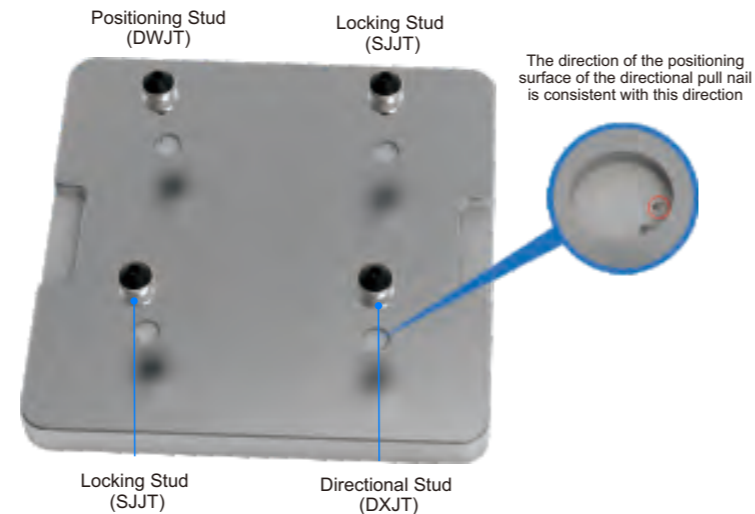
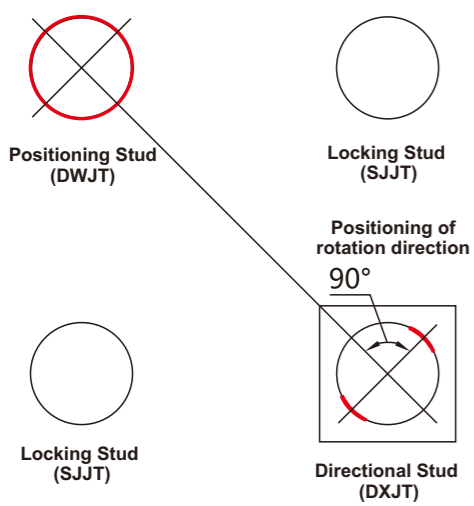
- ① Positioning stud
- ② Directional pull nail
- ③ Lock the zipper

- ② Directional pull nail

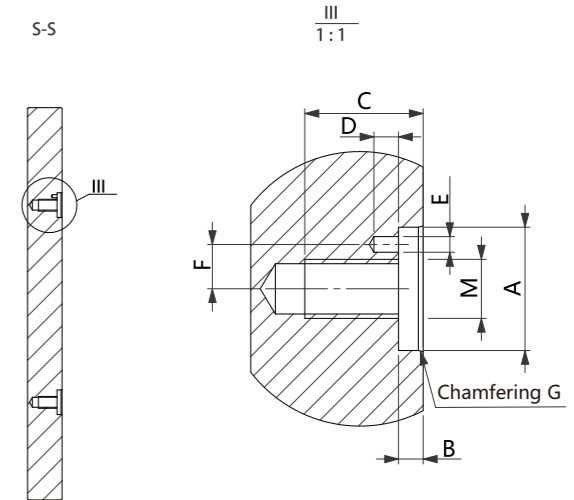
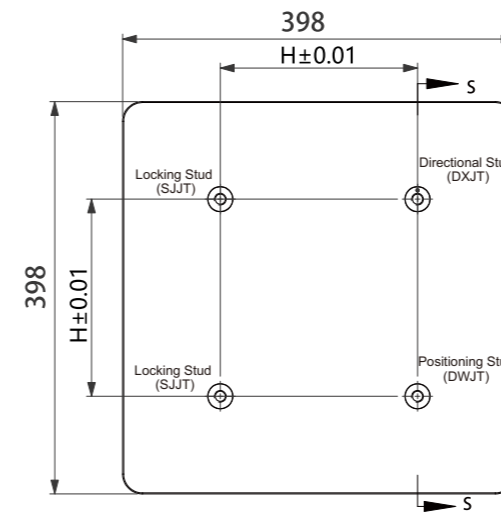
Installation diagram of four station pull nail

- ▲ There are two installation methods for four station stud installation:
- ▲ Method: Three types of rivets are required, one bidirectional positioning rivet (DWJT) and one unidirectional positioning pin rivet (DXJT), and two locking rivets (SJT).
- ▲ As shown in the figure below: Install the one-way positioning pull nail into the installation slot with two small holes on the dry switching board, so that the line connecting the two convex points of the one-way positioning pull nail is in a 90° state with the side of the switching board

Positioning benchmark



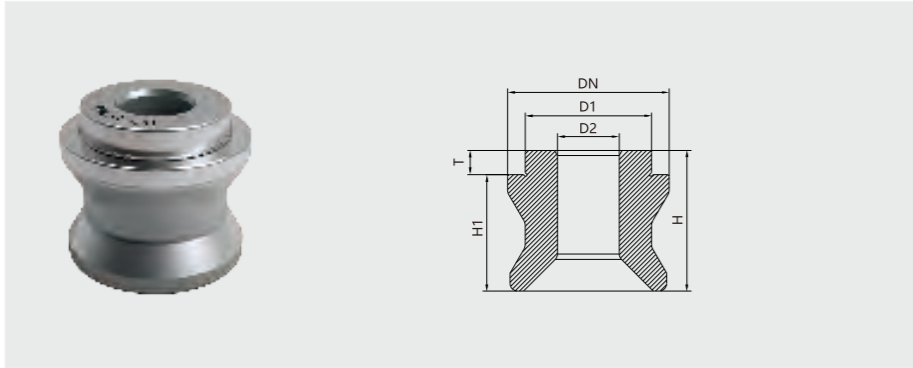
四工位拉钉安装尺寸图:



Note: Please refer to the data in this figure for the installation dimensions of the straight column ball lock type pull nail

Main parameter table:

订货编号	Ø A (0/+0.01mm)	B (+0.1mm)	C (min)	D	ØE (+0.1mm)	F (±0.04mm)	G	H	M	
Positioning stud	DWJT-2	10	2.4	12	/	/	/	0.5*15°	80	M6
	DWJT-5	14	3.2	13	/	/	/	0.5*15°	100	M8
	DWJT-10	15	3.2	15	/	/	/	0.5*15°	200	M8
	DWJT-20	25	5.2	24	/	/	/	1*15°	200	M12
	DWJT-40	30	6.2	26.5	/	/	/	1*15°	200	M16
Directional pull nail	DXJT-2	10	2.4	12	4	2.2	4.5	0.5*15°	80	M6
	DXJT-5	14	3.2	13	4	2.2	5.5	0.5*15°	100	M8
	DXJT-10	15	3.2	15	4	2.2	5.75	0.5*15°	200	M8
	DXJT-20	25	5.2	24	5	3.2	9	1*15°	200	M12
	DXJT-40	30	6.2	26.5	7	3.2	11.5	1*15°	200	M16
Lock the zipper	SJJT-2	10	2.4	12	/	/	/	0.5*15°	80	M6
	SJJT-5	14	3.2	13	/	/	/	0.5*15°	100	M8
	SJJT-10	15	3.2	15	/	/	/	0.5*15°	200	M8
	SJJT-20	25	5.2	24	/	/	/	1*15°	200	M12
	SJJT-40	30	6.2	26.5	/	/	/	1*15°	200	M16



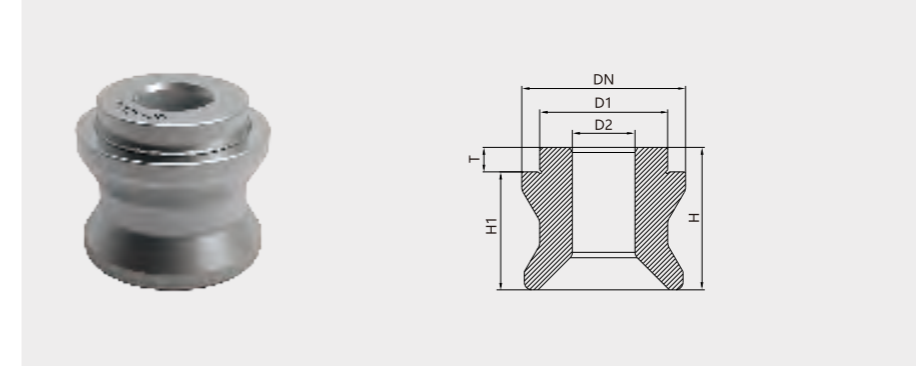
Positioning stud

Product features:

- High precision requirements, surface hardening treatment;
- Plays a role in restricting free rotation in the X/Y direction during use;
- Suitable for straight column ball lock type zero locator.

Main parameter table:

Order Number	Ø DN	Ø D1 (-0.002/-0.01)	Ø D2	H	H1	T	Weight (g)
DWJT-2	13	10	6.2	11	8.9	2.1	6
DWJT-5	18	14	8.2	15.5	12.8	2.7	16
DWJT-10	22	15	8.3	19.3	16.3	3	30
DWJT-20	32	25	12.2	28	23	5	105
DWJT-40	40	30	16.3	34	29	5	188



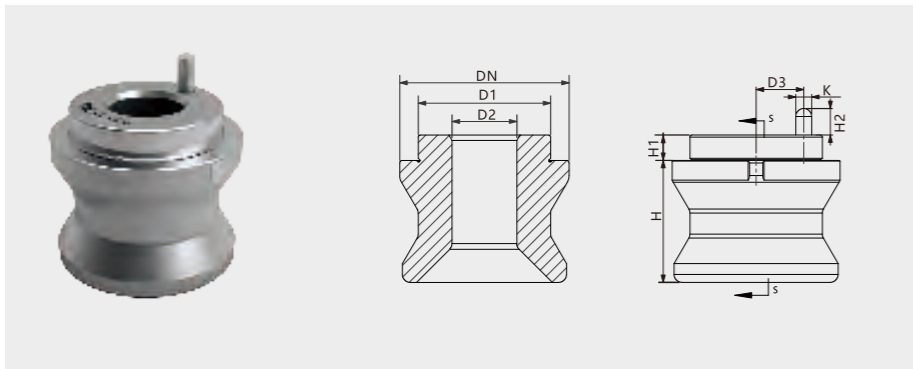
Lock the zipper

Product features:

- Surface hardening treatment plays a role in increasing tension force;
- Ensure that the positioning tray is fully positioned to avoid over positioning;
- Suitable for straight column ball lock type zero locator.

Main parameter table:

Order Number	Ø DN	Ø D1 (-0.002/-0.01)	Ø D2	H	H1	T	Weight (g)
SJJT-2	12.9	10	6.2	11	8.9	2.1	6
SJJT-5	17.9	14	8.2	15.5	12.8	2.7	16
SJJT-10	21.9	15	8.3	19.3	16.3	3	30
SJJT-20	32.0	25	12.0	28	23	5	105
SJJT-40	40.0	30	16.3	34	29	5	188



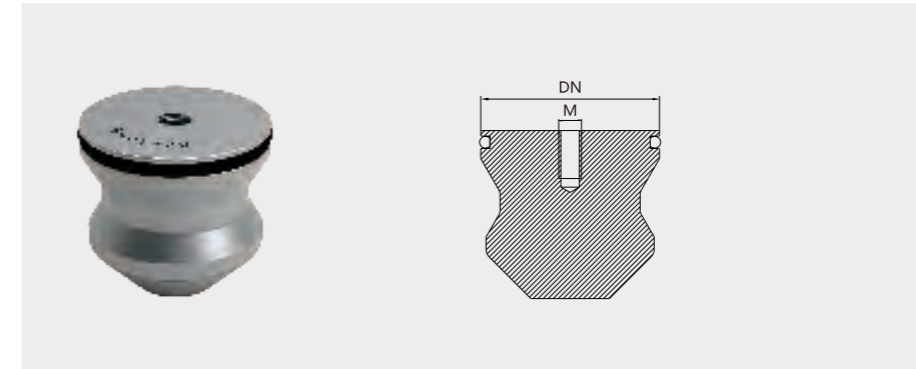
Directional pull nail

Product features:

- Surface hardening treatment;
- Only restricting rotational freedom, serving as a directional function;
- The angle between the guide hole and the positioning edge is 90°, please refer to (P25-26) for details. Suitable for straight column ball lock type zero locator.

Main parameter table:

Order Number	Ø DN	Ø D1 (h6)	Ø D2	D3	H	H1	H2	K	Weight (g)
DXJT-2	13	10	6.2	4.5	8.9	2.1	2.5	2.2	8
DXJT-5	18	14	8.2	5.5	12.8	2.7	3	2.2	16
DXJT-10	22	15	8.3	5.75	16.3	3	3	2.0	30
DXJT-20	32	25	12.2	9	23	5	5	3.0	105
DXJT-40	40	30	16.3	11.5	29	5	4	3.0	188



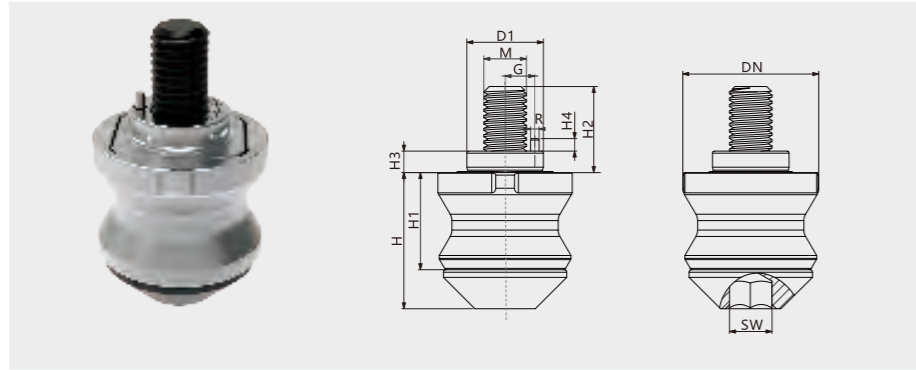
Protect the plug

Product features:

- Material: Aluminum;
- Prevent debris from entering the inactive zero positioning unit;
- Suitable for straight column ball lock type zero locator.

Main parameter table:

Order Number	Ø DN	M	Weight (g)
BHJT-2	12.8	M4	3
BHJT-5	17.8	M5	8
BHJT-10	21.8	M6	18
BHJT-20	31.8	M6	45
BHJT-40	39.8	M8	63

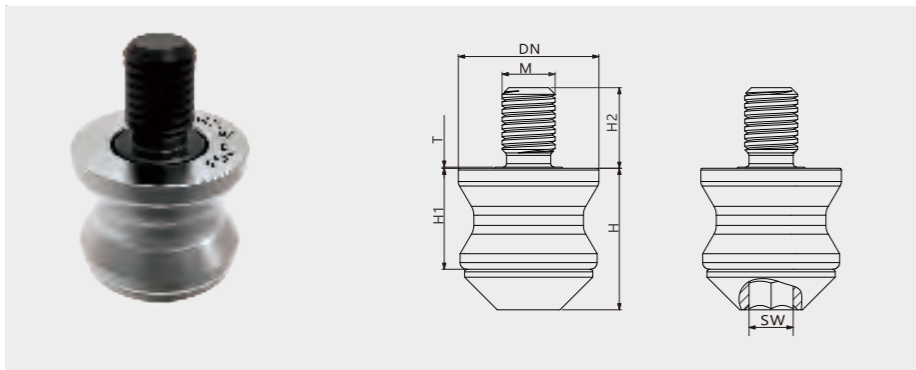


Positioning stud

Product features:

- High precision requirements, surface hardening treatment;
- Plays a role in restricting free rotation in the X/Y direction during use;
- The floating compensation amount is +0.5mm;
- Applied to the position adjustment of large parts,

Order Number	Ø DN	ØD1 (h7)	H	H1	H2	H3	H4	ØR	M	G	SW	Floating amount (mm)	Weight (g)
FDJT-X-20	32	18	32.05	22.85	20.25	5	3	2	M10	7	SW10	±0.5	154

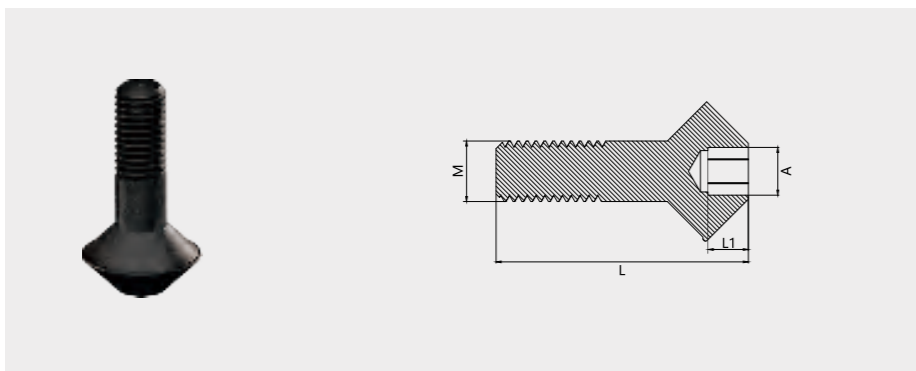


Locking floating rivets

Product features:

- Surface hardening treatment;
- The floating compensation amount is ± 0.5mm;
- Even if there is a deviation in positioning, it can still enter smoothly;
- Applied to the position adjustment of large parts.

Order Number	Ø DN	M	T ^{+0.1} ₀	H	H1	H2	SW	Floating amount (mm)	Weight (g)
FDJT-S-20	31.8	M12	0.25	32.05	22.85	18.25	SW10	±0.5	152

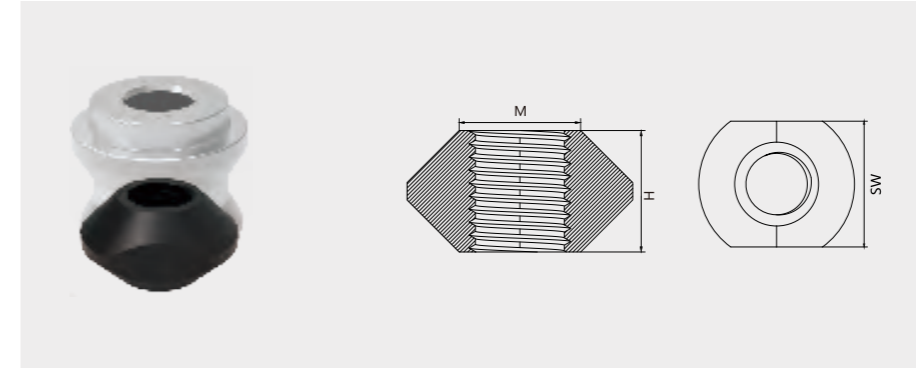


Tighten the bolts

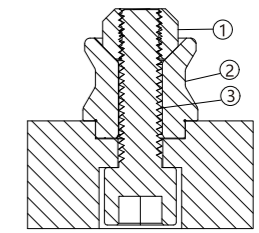
Product features:

- Intensity level 12.9;
- Suitable for straight column ball lock type zero locator.

Order Number	L	L1	M	A	Weight (g)
JGLS-2	23	3.5	M6	SW4	5
JGLS-5	30	5	M8	SW5	13
JGLS-10	37	6	M8	SW6	20
JGLS-20	50	8	M12	SW8	63
JGLS-40	65	10	M16	SW12	135

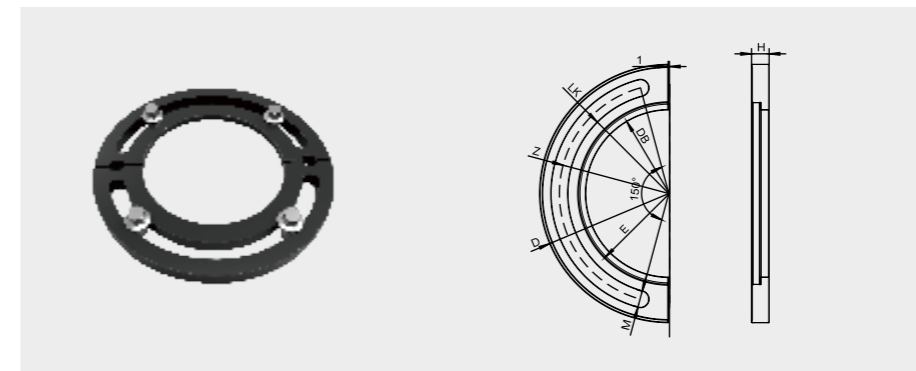


Tighten the nut



- ① Tighten the nut
- ② Lock the zipper
- ③ Tighten bolts

Order Number	M	SW	H	Weight (g)
JGLM-2	M6	8	4	2
JGLM-5	M8	10	6	3
JGLM-10	M8	14	8	8
JGLM-20	M12	21	14	26
JGLM-40	M16	23	16	32



Fixed flange

Product features:

- Fixed flanges are used to install LQTMS on machine tool workbenches;
- Suitable for workbenches with different T-slot sizes.

Installation diagram of fixed flange:



Installation Example



Tabletop style

Order Number	ØD	ØDB	ØLK	ØL	M	H	ØE	Supporting bolts
GDFL-5	120	69.5	88	96.5	8.5	9	79.4	M8
GDFL-10	170	100	127	167.5	10.5	11.5	113	M10
GDFL-20	198	128	155	137.5	12.5	13.5	139	M12