

Micro Stroke Pins / Stroke Pins

Spring Plungers / Long Sleeve Plungers Tapped Tip

■ Features: Suited for soldering or bonding electronic parts on a circuit board.

Micro Stroke Pins

Type	① Pin End	② Pin	③ Spring	④ Sleeve	⑤ Collar
JJPPN	Material: Polyacetal	Hardness: SK	Surface Treatment: Heat Treated Hardness HV620-720 Electroless Nickel Plating Nickel Plating	Material: SUS304	Material: SK Surface Treatment: Electroless Nickel Plating Nickel Plating

⚠️ Maintain the stroke not to exceed S dimensions, otherwise the spring may be damaged.
⚠️ Tighten the nut with forces under 23.43N for M2, 98.07N for M3 ~ 5.

Part Number	Type	M	D	Stroke S	H	m	B	L1	T	L	t	(d)	d1	(L2)	Load (N)		Unit Price
															min.	max.	
JJPPN	2 (Fine)	1.5	8	2.5	2	3.5	14	0.5	9	0.8	1.7	1	4.2	0.20	0.883		
	3 (Coarse)	2.5	11	3.5	2.5	6	19	1	15	1	2.25	1.72	7	0.39	3.432		
	4 (Coarse)	3.5		4.5							3	2.45		0.76			
	5 (Coarse)	4.5		5.5							4	3.45		1.25			

Ordering Example: Part Number - D
JJPPN4 - 3.5

Alterations: Part Number - D - (NT)
JJPPN2 - 1.5 - NT1

Nuts Included

Code: NT

Spec: One nut is included with NT1, 2 nuts with NT2.
Ordering Code: NT1 ⚠️ Applicable to M2 only

EX Example

■ Features: Bushing built-in plungers specialized in holding. The tip can be ordered separately.

Stroke Pins

Type	① Pin End	② Pin	③ Spring	④ Shim	⑤ Body	⑥ Oil Free Bushing	⑦ Nut	Pin End
SPPL	Material: Polyacetal	Material: SUS304	Material: SUS304	Material: SUS304-WPB	Material: SUS304	Material: S45C	Material: PTFE	Type: SPPHA Material: Polyacetal

⚠️ The rear nut is swaged, it cannot be removed.
⚠️ Can be used as a replacement stroke pin.

Part Number	Type	M (Coarse)	D	Stroke S	H	H1	B	L1	L	t	d1	d2	Load (N)		Unit Price	Volume Discount Rate
													min.	max.		
SPPL	6	5	8	7	14	27.5	20	(1.2)	2.5	2	2.0	5.9				
	8	6	10	9	8	28.5	26.5	(1.6)	3	2.5	3.8	8.0				
	10	8	15	12	10	15	39.5	31.5	(1.8)	4	3	4.7	12.6			

Pin End

Part Number	D	Applicable Stroke Pin	L	W	M x Pitch (Coarse)	Unit Price	Volume Discount Rate
SPPL6-5	5	SPPL6-5	5	4	M2.5x0.45	1 - 9 pc(s).	10-50 pcs.
SPPL8-6	6	SPPL8-6	6	5	M3x0.5		
SPPL10-8	8	SPPL10-8	8	7	M4x0.7		

⚠️ For orders larger than indicated quantity, please request a quotation.

M	Allowable Tightening Torque (N·m)
6	3.5
8	9
10	20

⚠️ Do not exceed the torque values shown above when tightening.

EX Example

<Example of Temporary Holding for Dust Removal Process>

■ Features: Stop Pins (P.1719) or Urethane Pushers (P.2-1553) can be mounted on the tip.

Spring Plungers - Tapped Tip

Type	Body	Pin	Spring	Operating Temperature				
Light Load	Material: S45C	Hardness: 29-35HRC	Surface Treatment: Black Oxide	Material: S45C	Hardness: 57-63HRC (Carburized)	Surface Treatment: Electroless Nickel Plating	Material: SWP-B	Operating Temperature: -30~80°C
Heavy Load	PJLTP	PJHTP						

Part Number	Type	Stroke S	M (Coarse)	d	L	L1	M1 (Coarse)	L2	W	T	B	Light Load Load (N)		Heavy Load Load (N)		Unit Price	
												min.	max.	min.	max.		
PJLTP PJHTP	12	15	5.5	51	35	M3	6	4	4	4	4	2.9	19.6	4.9	49.0		
		20										3.5	19.6	6.9	49.0		
	16	15	8	60	35	M4	8	7	5	5	5	5	3.9	39.2	12.7	78.5	
		20											4.9	39.2	9.8	78.5	
	20	15	10	72	45	M5	10	8	6	6	6	6	2.9	39.2	6.9	78.5	
		20											12.7	78.5	24.5	147.1	
		30		96	45							11.7	78.5	22.6	147.1		

Ordering Example: Part Number - S
PJLTP - 20
PJHTP - 15

■ Features: As a long pin-guide is used, the structure of this plunger is strong enough to bear the diagonal load.

Long Sleeve Plungers

Type	Pin	Main Body	Bushing	Spring			
GLPN	Material: S45C	Hardness: HRC50-55	Surface Treatment: Black Oxide	Material: S45C	Surface Treatment: Black Oxide	Material: High-Tensile Brass Alloy Solid Lubricant Embedded	Material: SUS304WPB

Part Number	Type	d	Stroke S	R	D	L	H	T	l	C	d1	P.C.D	Load (N)		Unit Price
													min.	max.	
GLPN	6	5	4	14	32	30	8	5	1	4.5	22	22	18	29	
													8	29	
	8	5	5	16	38	32	8	5	1	4.5	24	24	8	30	
													14	30	
	10	10	6	20	48	40	8	8	1.5	5.5	30	30	26	47	
													15	47	
	12	15	8	22	52	42	8	8	1.5	5.5	32	32	27	48	
													20	48	
	16	25	10	28	60	52	10	10	2	6.5	40	40	42	73	
													22	73	
	20	30	12	32	70	56	10	10	2	6.5	44	44	48	86	
													30	86	

Ordering Example: Part Number - S
GLPN8 - 10
GLPN16 - 25

EX Example

Long Sleeve Plungers