

# 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
	M Material	H Hardness	S Surface Treatment	M Material	S Surface Treatment
JJPPN	Polyacetal	SK	Heat Treated Hardness HV620-720 Electroless Nickel Plating	EN 1.4301 Equiv.	SK Electroless Nickel Plating
					BS (Brass)

**<Load>**  
min. (Stroke 0)    max. (Stroke max)

⚠ 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			

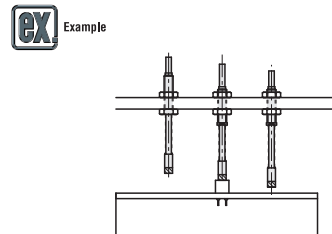
Ordering Example: Part Number - D  
JJPPN4 - 3.5

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

**Nuts Included**

Code: NT

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



■ 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	
	Tip	Core Rod	M Material	M Material	M Material	M Material	S Surface Treatment	Type	
	M Material	M Material	M Material	M Material	M Material	M Material	S Surface Treatment	M Material	
SPPL	Polyacetal	EN 1.4301 Equiv.	EN 1.4301 Equiv.	EN 1.4301 (WPB) Equiv.	EN 1.4301 Equiv.	EN 1.1191 Equiv.	Electroless Nickel Plating	PTFE	EN 1.0736 Trivalent Chromate

**Stroke Pins**  
SPPL

**Pin End**  
SPPHA

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

**Stroke Pins**

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
SPPHA	5	SPPL6-5	5	4	M2.5x0.45	1 - 9 pc(s).	10-50 pcs.
	6	SPPL8-6	6	5	M3x0.5		
	8	SPPL10-8	6	7	M4x0.7		

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

⚠ Allowable Tightening Torque (N·m)

M	3.5
6	3.5
8	9
10	20

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

**<Load>**  
min. (Stroke 0)    max. (Stroke max)

kgf=Nx0.101972 ⚠ For orders larger than indicated quantity, please request a quotation.

SPPL, Workpiece, Suction, Air Blow

<Example of Temporary Holding for Dust Removal Process>

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

**Spring Plungers - Tapped Tip**

Type	Body	Pin	Spring	Operating Temperature					
	M Material	H Hardness	S Surface Treatment	M Material	H Hardness	S Surface Treatment	M Material		
Light Load	PJLTP	EN 1.1191 Equiv.	29-35HRC	Black Oxide	EN 1.1191 Equiv.	57-63HRC (Carburized)	Electroless Nickel Plating	JIS-SWP-B	-30~80°C
Heavy Load	PJHTP						Black Oxide		

**Spring Plungers - Tapped Tip**

Part Number	Type	Stroke S	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	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	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	

kgf=Nx0.101972

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			
	M Material	H Hardness	S Surface Treatment	M Material	S Surface Treatment	M Material	M Material
GLPN	EN 1.1191 Equiv.	HRC50-55	Black Oxide	EN 1.1191 Equiv.	Black Oxide	High-Tensile Brass Alloy Solid Lubricant Embedded	SUS304WPB

**Long Sleeve Plungers**

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	10	4	14	32	30	8	5	1	4.5	22	18	29	
													8	29	
	8	5	10	5	16	38	32	8	5	1	4.5	24	22	30	
													14	30	
	10	10	15	6	20	48	40	8	8	1.5	5.5	30	26	47	
													15	47	
	12	15	20	8	22	52	42	8	8	1.5	5.5	32	27	48	
													20	48	
	16	15	25	10	28	60	52	10	10	2	6.5	40	42	73	
													22	73	
	20	20	30	12	32	70	56	10	10	2	6.5	44	48	86	
													30	86	

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

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

**Long Sleeve Plungers**