

Clamp Units, Toggle Clamps

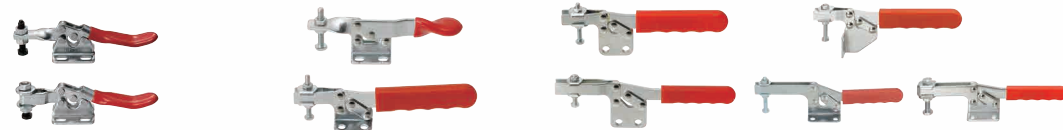
Clamp Units Toggle Clamps



Product Name	Buffered Pusher Pins	Slide Pushers	Spring Clamps - Small / Large	Spring Side Clamps, Tip Attachments
Page	1790	1790	1791	1792



Toggle Clamps - Hold Down, Horizontal Standard Handle	Hold Down, Horizontal Standard Handle / High Arm Type	Hold Down, Horizontal Standard Handle (Straight Base)
1795	1796	1797



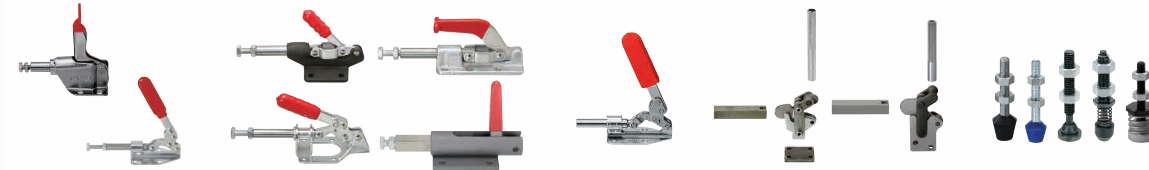
Hold Down, Horizontal Long Handle	Hold Down, Horizontal Handle (Flange Base)	Hold Down, Horizontal Handle (Straight Base / Side Mount Base / Flange Base)
1798	1799	1800



Side Push-Pull Free Mounting Direction / Horizontal	Hold Down, Vertical Handle (Flange Base)	Hold Down, Vertical Handle (Straight Base)	Hold Down, Vertical Handle, Long Arm (Flange Base)
1801	1802	1803	1804



Hold Down, Vertical Handle, Long Arm (Straight Base)	Vertical Handle (Flange Base / Straight Base)	Vertical Handle, Welded Tip Screw / High Arm	Two-Pronged	Long Arm
1805	1806, 1807	1808	1809	1809



Side Push (Flange Base)	Smooth Stroke	Weld-On Clamps	Tips for Clamps
1810~1813	1813	1814	1815



Two-Pronged Clamp Arms	Clamp Arm Extension Kits	Clamp Brackets	Height-Adjusting Toggle Clamps	Extension Toggle Clamps
1816	1816	1816	1795, 1800, 1802, 1803, 1807	1795, 1804, 1806, 1816

Buffered Pusher Pins / Slide Pushers

■ **Features:** Absorbs thrust force when attached to the tip of cylinder, holding the workpiece without damages.

Buffered Pusher Pins



Type	Pin			Body			Oil Free Bushing	Spring
	Material	Hardness	Surface Treatment	Material	Hardness	Surface Treatment	Material	Material
BFPP	EN 1.0762 Equiv.	23~30HRC	Black Oxide	EN 1.0762 Equiv.	23~30HRC	Black Oxide	PTFE	JIS-SWP-A

Spring			
S (Soft)		H (Hard)	
Set (Stroke 0)	max. (Stroke max.)	Set (Stroke 0)	max. (Stroke max.)
No.8 2.0	7.0	No.8 4.0	14.0
No.10 4.5	10.5	No.10 9.0	21.0
No.14 7.5	15.5	No.14 15.0	31.0

Load (N)	No.8	No.10	No.14
	2.0	4.5	7.5

Values of applicable cylinder tube I.D. are for reference. Check for specifications of the cylinder in use.

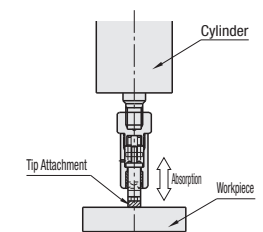
Part Number			D	P	S	(L)	L ₁	L ₂	L ₃	W ₁	W ₂	M ₁ (Coarse)	x ₁	x ₂	B	M ₂	Applicable Cylinder Tube I.D.	Unit Price
Type	Spring	No.																
BFPP	S (Light Load)	8	13	6	5	45	9	26	10	11	5	M3	5	6	14	M8xP1.25	Ø20	
	H (Heavy Load)	10	16	8	6	53.5	10	31	12.5	14	7	M4	6	7.5	17	M10xP1.25	Ø25	
		14	22	12	8	78	15	45.5	17.5	21	10	M6	8	10	22	M14xP1.50	Ø40	



Part Number
BFPP-S-10

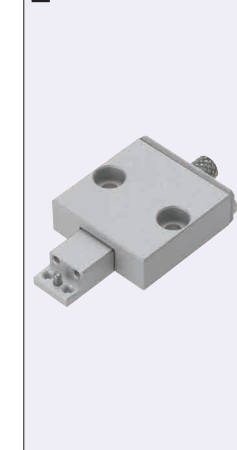


Use tip attachments suitable for shape and material of workpiece. Inner screw absorbs thrust force, holding the workpiece without damages.



■ **Features:** Clamps a workpiece from the side by spring force.

Slide Pushers



Type	Body, Slide Bar		Spring	Shaft	Knob	Screw
	Material	Surface Treatment	Material	Material	Material	Material
SLDP	EN AW-6061 Equiv.	Clear Anodize	EN 1.4301 (WPB) Equiv.	EN 1.4305 Equiv.	EN 1.4305 Equiv.	EN 1.4301 Equiv.

⚠ Tip attachments are not included. Use tip attachments suitable for shape and material of workpiece.

How to Use
Slide bar is retracted by pulling the knob, then leaps by spring force.

Part Number		Load (N)		Unit Price	Volume Discount Rate
Type	Spring	min.	max.	1 ~ 9 pc(s).	10 ~ 20 pcs.
SLDP	S (Light Load)	1.5	6.4		
	H (Heavy Load)	4.9	14.7		



Part Number
SLDP-S



Use tip attachments suitable for shape and material of workpiece. Clamps a workpiece from the side by spring force.

