NEW

Punch Stripper Unit

Compact Type PSCLS Series

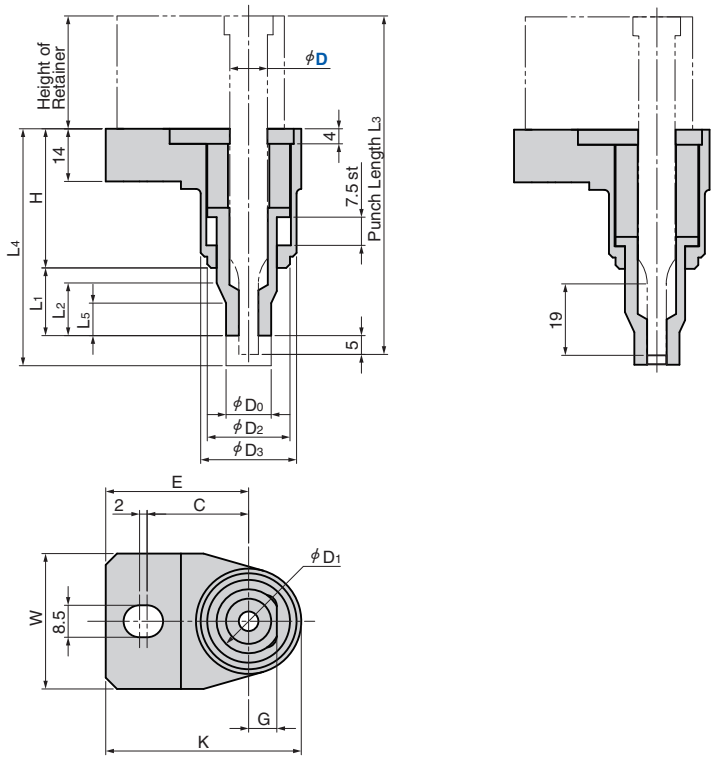
Pierce Components

Light Duty: 1,000,000 strokes model

PSCLSB (Extra Small Blank Bushing)

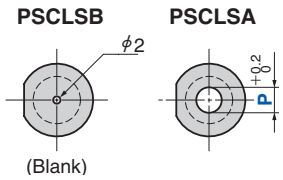
PSCLSA (Extra Small Bushing with Round Punch)

CAD FILE



● Punch Point Shape

Set the point shape diameter to + 0.1 mm or more.



D	Punch Length L3	Retainer Height	H	L1	L2	L4	L5	C	E	G	D0	D1	D2	D3	W	K
		25		13	14	57.5	8.6									
	80	30		8	9	52.5	3.6									
		(32)		12	14	56.5	8.6									
		25		23		67.5										
	90	30		18		62.5										
10		(32)	37	22		66.5		27	38	7.5	12	17	22	25.5	36	52
		35 (41)		13	14	57.5	8.6									
		25		33		77.5										
	100	30		28		72.5										
		(32)		32		76.5										
		35 (41)		23		67.5										

Inside "( )" shows the dimension for Ball Retainer.

Catalog No.	D	Punch Length L3	0.1 mm increments PSCLSA P
PSCLSB PSCLSA	10	80	3.0～6.6
		90	
		100	

Order

Catalog No.	Point Shape	Shank Diameter	—	Punch Length	—	Retainer Height	—	Hole Diameter
PSCLS	B	10	–	80	–	32		
PSCLS	A	10	–	90	–	41	–	P5.2

■Guideline for Use

- Use a Pierce Punch with Point length 19 mm or more.
- PSCLSB requires the processing of additional punch point shape before use.
- Set the entry of the pierce to 5 mm or less.
- Other shapes upon request.

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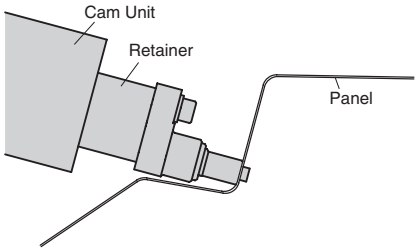
Punch Stripper Unit [Overview]

Compact Type PSCL, PSCM, and PSCLS Series

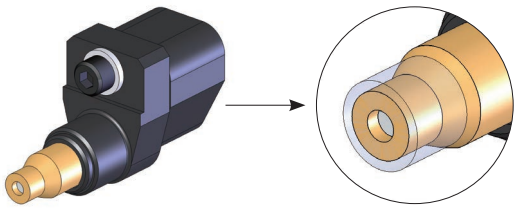
Pierce Components

- Punch Stripper Unit for General Retainers
- The smaller design of the outer punch shape enables easier processing in limited spaces compared to the BPS series.
  For your Piercing Punch ϕ10 and ϕ13, lengths 80, 90, and 100 mm are selectable.
- For Retainer, heights 25, 30, and 35 mm. For Ball Lock Retainer, heights 32 and 41 mm.
- Set the entry to the pierce 5 mm or less.
- The tip shape of the Pad can be changed.
- PSCL series for Light Duty
  PSCM series for Middle Duty
  ∗ ϕ16, ϕ20, ϕ25, and ϕ32 upon request.

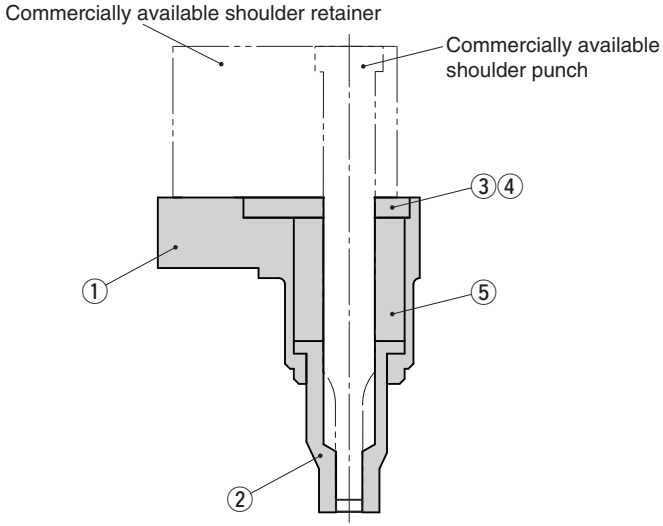
The PSCL and PSCM series are designed to minimize its outer shape, which helps to process places that require avoiding any interfaces with a panel.



・Extra Small Bushing is ideal for Pierce Shank Diameter ϕ10



Tip downsized from ϕ14.5 to ϕ12



No.	Description	Qty	Remark
1	Case	1	—
2	Pad	1	—
3	Backing Plate	1	—
4	Hexagon Socket Head Bolt	2	—
5	Coil Spring	1	Refer to the Spring Specification.
6	Washer (Accessory)	1	M8
7	Hexagon Socket Head Bolt (Accessory)	1	M8x25

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Punch Stripper Unit [Overview]

Compact Type PSCL, PSCM, and PSCLS Series

Pierce Components

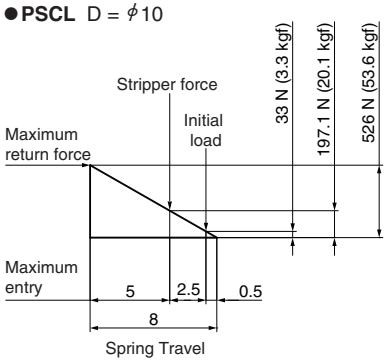
■Spring Specification: PSCL, PSCM

Catalog No.	D	Punch Length L_3	Travel S	Initial Load N (kgf)	Stripper Force N (kgf)*1	Maximum Return Force N (kgf)	Spring Constant N/mm (kgf/mm)	Spring Type
		80						
PSCLB	10	90		33 (3.3)	197 (20.1)	526 (53.6)	65.7 (6.7)	SWL22-25
PSCLA		100						
PSCLR		80						
PSCLE	13	90		49 (5)	294 (30)	785 (80.1)	98.1 (10)	SWL27-25
		100	7.5					
		80						
PSCMB	10	90		59.5 (6)	357 (36.4)	952 (97.1)	119 (12.1)	SWM22-25
PSCMA		100						
PSCMR		80						
PSCME	13	90		89.5 (9.1)	537 (54.7)	1432 (146.1)	179 (18.3)	SWM27-25
*2		100						

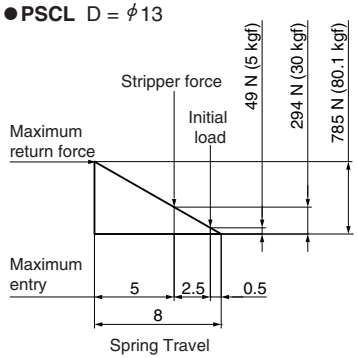
*1 When pad stroke is set to 2.5 mm
*2 This is a 300,000 strokes model. The spring must be replaced after 300,000 strokes.

■Spring Diagram

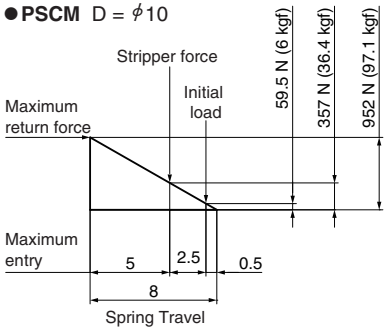
●**PSCL** D = ϕ10



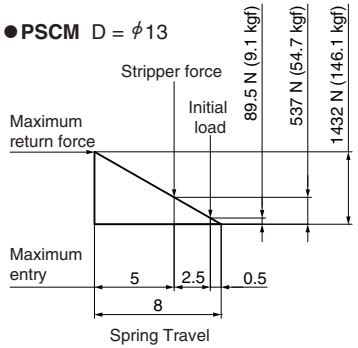
●**PSCL** D = ϕ13



●**PSCM** D = ϕ10



●**PSCM** D = ϕ13



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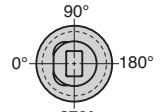
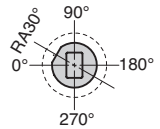
■Options

−RA Locking positions of irregular Punch Point Shapes can be changed by the option below.

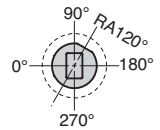


Standard 0° position

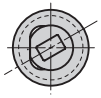


RA30° position

For RA30°



RA120° position



For RA120°

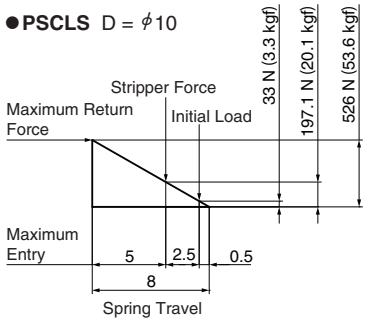
■Spring Specification: PSCLS

Catalog No.	D	Punch Length L_3	Travel S	Initial Load N (kgf)	Stripper Force N (kgf)*1	Maximum Return Force N (kgf)	Spring Constant N/mm (kgf/mm)	Spring Type
		80						
PSCLSB	10	90	7.5	33 (3.3)	197 (20.1)	526 (53.6)	65.7 (6.7)	SWL22-25
PSCLSA		100						

*1 When working stroke is set to 2.5 mm.

■Spring Diagram

●**PSCLS** D = ϕ10



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