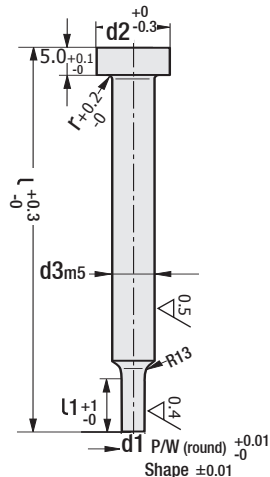
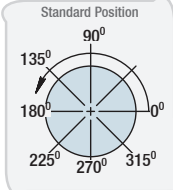
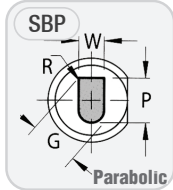
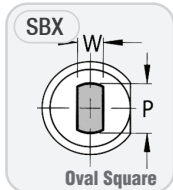
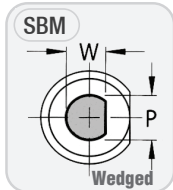
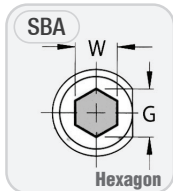
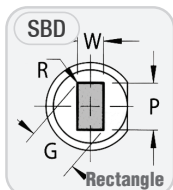
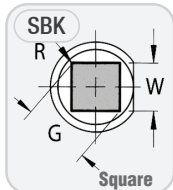
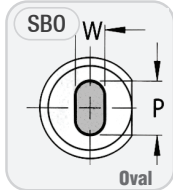
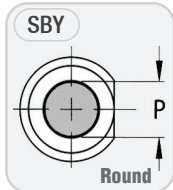


Shapes



ISO 8020

Cylinder Head Stepped Punch

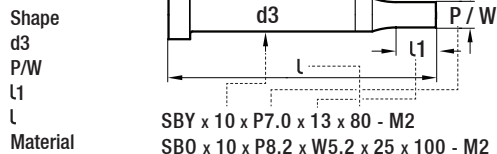
Code: **SB..**

Order Codes: **SBY - SBO - SBK - SBD - SBA - SBM - SBX - SBP**

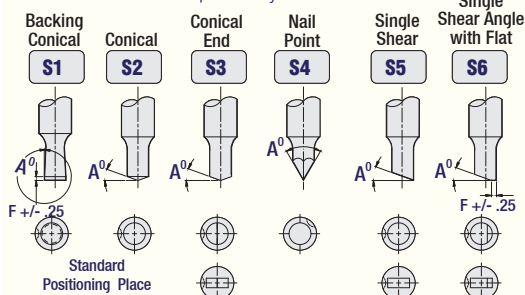
← Please refer to the table on the left side

Order	d3	Head d2	d1 / Shape		Standard	Alternative l1		L mm
			(SBY) Round P	Other Shapes W G/P		Min.	Max.	
SB..04	7	1.6 ~ 3.99	1.6 - 4.0	8	10	-	50	
SB..05	8	1.6 ~ 4.99	1.6 - 5.0	13	10	-	63	
SB..06	9	1.6 ~ 5.99	1.6 - 6.0	13	10	-	71	
SB..08	11	2.5 ~ 7.99	2.5 - 8.0	19	13	-	80	
SB..10	13	3.2 ~ 9.99	3.2 - 10	19	13	25	90	
SB..13	16	5.0 ~ 12.99	4.5 - 13	19	13	25	100	
SB..16	19	8.0 ~ 15.99	6.0 - 16	19	13	25	125	
SB..20	23	10 ~ 19.99	8.0 - 20	19	13	25	63	
SB..25	28	12 ~ 24.99	9.0 - 25	19	13	25	71	
SB..32	35	16 ~ 31.99	10 - 32	25	19	30	80	
SB..40	43	30 ~ 39.99	14 - 40	25	19	30	90	
							100	
							125	

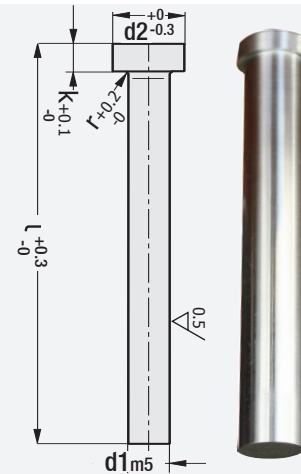
How to order:



Cutting Angles (special tools): In case of demand, "A" angle and "F" dimension should be specified by user.



The standard location of key flats is at 0°. Alternate locations of 90°, 180° or 270° can be specified.



Punch as per request:



Cylinder Head Punch - ISO 8020

Code: **SBZ**

Mounting of cylinder head type punch to the holder plate during usage is planned, guiding process is provided by the stripper plate. By mounting punches in this style, the elimination of axial errors that resulted from incorrect mounting of die set or press is more easier. The use of this mounting method provided the alteration between the transmission of punching power and bearing.

Material: 1.3343 (M2) completely ground
Heat Treated: 62 - 64 HRC
Head Hardness: 52 ± 3 HRC
Surface: ≥ 950 HV 0.3

Also, full or partial coating can be preferred upon request, by providing resistance against heat and friction on external layer, it solves problems such as winding and cold welding. For harder work pieces, ASP / PS (powder metal) and for very hard and abrasive work pieces, sintered carbide punches are preferred.

Code: **SBZ**

d1	l	d2	k	r
2.0	71	5.0	3	0.2
	80			
	100			
2.5	71	6.0	3	0.2
	80			
	100			
3.0	71	7.0	5	0.3
	80			
	100			
3.5	71	7.5	5	0.3
	80			
	100			
4.0	71	8.0	5	0.3
	80			
	100			
4.5	71	9.0	5	0.3
	80			
	100			
5.0	71	11	5	0.3
	80			
	100			
6.0	71	11	5	0.3
	80			
	100			
8.0	71	11	5	0.3
	80			
	100			

d1	l	d2	k	r
10	71	13	5	0.3
	80			
	100			
	125			
13	71	16	5	0.3
	80			
	100			
	125			
16	71	19	5	0.3
	80			
	100			
	125			
20	71	23	5	0.3
	80			
	100			
	125			
25	71	28	5	0.3
	80			
	100			
	125			
32	71	35	5	0.3
	80			
	100			
	125			

Order: **SBZ. d1 x l**

Order Example:
SBZ. 10 x 100