

Cylindrical Head Stepped Punches with Ejector Pin and Profile

ISO 8020

kalipyansan®

191.

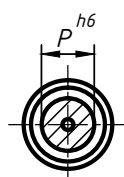
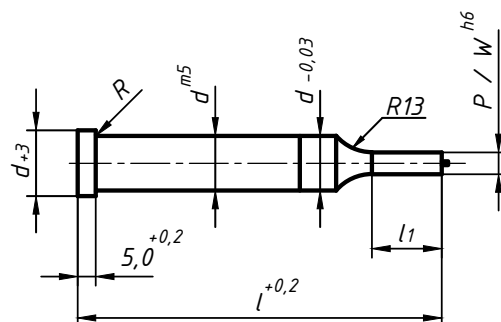
192.

193.

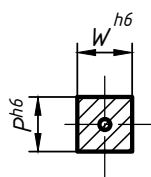
194.

195.

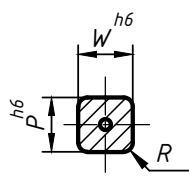
196.



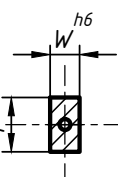
191.



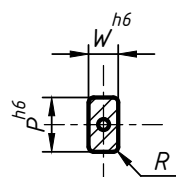
192.



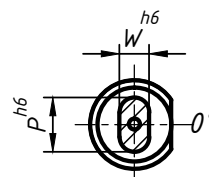
193.



194.



195.



196.

MATERIAL

HWS %12 Cr: 1.2379

BODY HARDNESS

62 ± 2 HRC

HEAD HARDNESS

50 ± 3 HRC

MATERIAL CODE

A2 (HWS)

HSS: 1.3343

64 ± 2 HRC

53 ± 3 HRC

M2 (HSS)

POWDER METAL: ASP 2023

64 ± 2 HRC

53 ± 3 HRC

PM (PM4)

PVD COATING: TiN / TiAlN / TiCN

191. 192. 193. 194. 195. 196.

d	l1				l					191		192-193-194-195-196		R
	13,0	19,0	25,0	30,0	63,0	71,0	80,0	90,0	100,0	Min. P	Max.	Min. W	Max. P	
5,0	•				•	•	•			1,60 - 4,95		1,60	4,95	Different sizes are available upon request.
6,0	•				•	•	•	•	•	2,40 - 5,95		2,40	5,95	
8,0		•			•	•	•	•	•	3,20 - 7,95		3,20	7,95	
10,0		•			•	•	•	•	•	4,50 - 9,95		4,50	9,95	
13,0		•			•	•	•	•	•	6,00 - 12,95		6,00	12,95	
16,0		•			•	•	•	•	•	8,00 - 15,95		7,20	15,95	
20,0		•			•	•	•	•	•	10,00 - 19,95		8,00	19,95	
25,0		•			•	•	•	•	•	12,00 - 24,95		9,00	24,95	
32,0			•		•	•	•	•	•	16,00 - 31,95		10,00	31,95	
40,0			•		•	•	•	•	•	20,00 - 39,95		10,00	39,95	
45,0			•		•	•	•	•	•	25,00 - 44,95		10,00	44,95	
50,0			•		•	•	•	•	•	30,00 - 49,95		10,00	49,95	
56,0			•		•	•	•	•	•	35,00 - 55,95		11,00	55,95	
63,0			•		•	•	•	•	•	40,00 - 62,95		12,00	62,95	

ORDER EXAMPLE

Punch Code : 191.
Diameter (d=10,0) : 1000.
Length (l=80) : 080.
Diameter (P=5,0) : 0500.
Length (l1=19) : 19.

ORDER EXAMPLE

Punch Code : 195.
Diameter (d=13,0) : 1300.
Length (l=100) : 100.
Diameter (P=12,0 / W=5,0) : 1200.0500.
Length (l1=19) : 19.

Material Code : M2
Order Code : 191.1000.080.0500.19.M2

R (R=2,0) : R2.0.
Material Code : A2
Order Code : 195.1300.100.1200.0500.19.R2.0.A2