

1810.

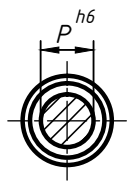
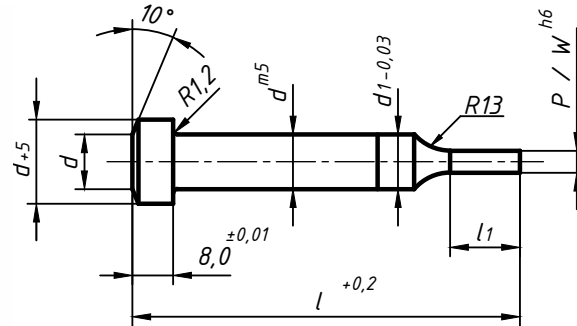
1820.

1830.

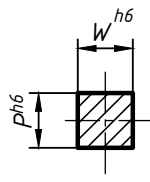
1840.

1850.

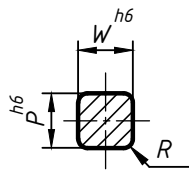
1860.



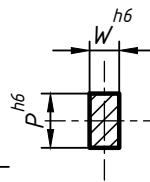
1810.



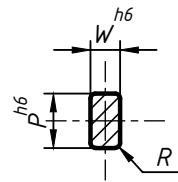
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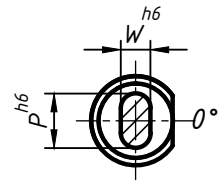
1830.



1840.



1850.



1860.

MATERIAL	BODY HARDNESS	HEAD HARDNESS	MATERIAL CODE
HWS %12 Cr: 1.2379	62 ± 2 HRC	50 ± 3 HRC	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			

1810. 1820. 1830. 1840. 1850. 1860.

d	l1				l					1810	1820-1830-1840-1850-1860		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		ORDER EXAMPLE	
Punch Code	: 1810.	Punch Code	: 1850.
Diameter (d=10,0)	: 1000.	Diameter (d=13,0)	: 1300.
Length (l=80)	: 080.	Length (l=100)	: 100.
Diameter (P=5,0)	: 0500.	Diameter (P=12,0 / W=5,0)	: 1200.0500.
Length (l1=19)	: 19.	Length (l1=19)	: 19.
		R (R=2,0)	: R2.0.
Material Code	: M2	Material Code	: A2
Order Code	: 1810.1000.080.0500.19.M2	Order Code	: 1850.1300.100.12.05.19.R2.0.A2