

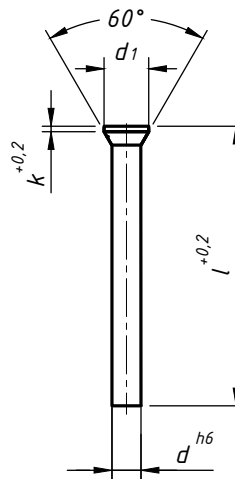
Conical Head Punches

DIN 9861 / ISO 6752

Form D

kalipyansan

111.



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)
CARBIDE	61 ~ 81 HRC		C
PVD COATING: TiN / TiAlN / TiCN			

111.					
dh6	d1	k	l + 0,2		
			71	80	100
1,0 - 1,1	1,8	0,5	●	●	●
1,2 - 1,3	2,0		●	●	●
1,4 - 1,5	2,2		●	●	●
1,6 - 1,7	2,5		●	●	●
1,8 - 1,9	2,8		●	●	●
2,0	3,0		●	●	●
2,1 - 2,2	3,2		●	●	●
2,3 - 2,5	3,5		●	●	●
2,6 - 2,9	4,0		●	●	●
3,0 - 3,4	4,5		●	●	●
3,5 - 3,9	5,0		●	●	●
4,0 - 4,4	5,5		●	●	●
4,5 - 4,9	6,0		●	●	●
5,0 - 5,4	6,5		●	●	●
5,5 - 5,9	7,0		●	●	●
6,0 - 6,4	8,0		●	●	●
6,5 - 7,0	9,0	1,0	●	●	●
7,5 - 8,0	10,0		●	●	●
8,5 - 9,0	11,0		●	●	●
9,5 - 10,0	12,0		●	●	●
10,5 - 11,0	13,0		●	●	●
11,5 - 12,0	14,0		●	●	●
12,5 - 13,0	15,0	1,5	●	●	●
13,5 - 14,0	16,0		●	●	●
14,5 - 15,0	17,0		●	●	●
15,5 - 16,0	18,0		●	●	●
ORDER EXAMPLE			ORDER EXAMPLE		
Punch Code : 111.			Punch Code : 111.		
Diameter (d=1,8) : 0180.			Diameter (d=6,5) : 0650.		
Length (l=80) : 080.			Length (l=70) : 070.		
Material Code : M2			Material Code : A2		
Order Code : 111.0180.080.M2			Order Code : 111.0650.070.A2		