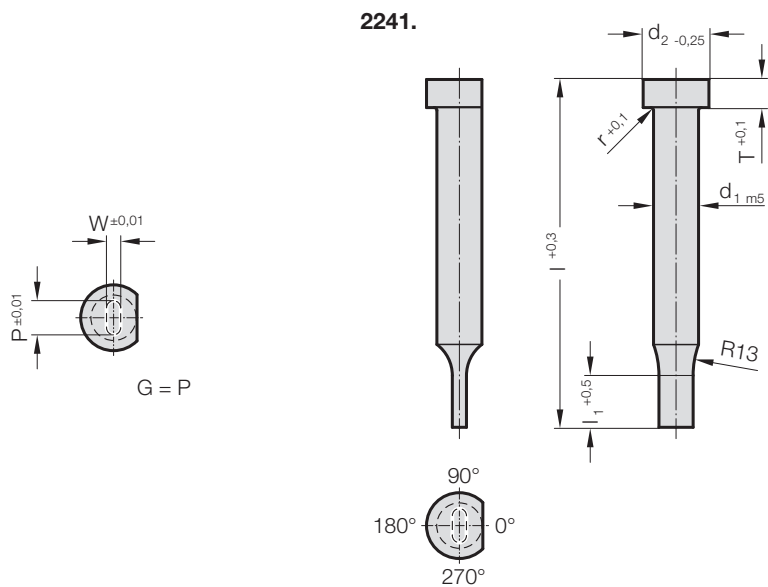


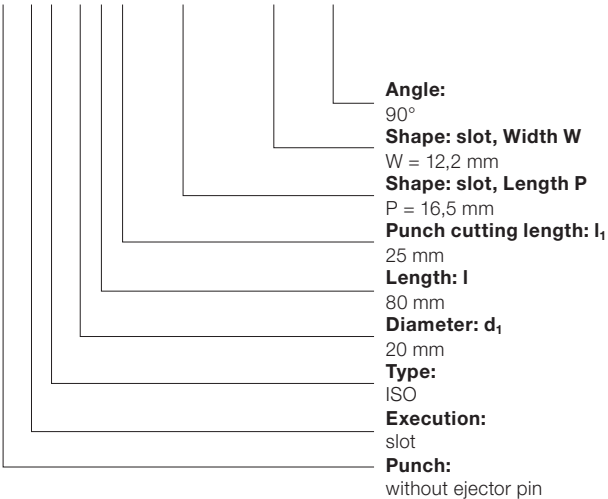
PUNCH, STEPPED, SLOT, ISO 8020



2241. Punch, stepped, slot, ISO 8020

d ₁ / Order No	d ₂	W _{min}	G _{max}	l ₁ / Order No	r	T	l / (Order Code character)	71 (D)	80 (E)	90 (F)	100 (G)	120 (J)
3 / (1)	5	0.5	2.9	8 (1) 10 (2)	0.25	3		●	●	●	●	●
4 / (2)	6	0.8	3.9	8 (1) 13 (3)	0.25	3		●	●	●	●	●
5 / (3)	8	1	4.9	13 (3) 19 (4)	0.3	5		●	●	●	●	●
6 / (4)	9	1.6	5.9	13 (3) 19 (4)	0.3	5		●	●	●	●	●
8 / (5)	11	2	7.9	19 (4) 25 (5)	0.3	5		●	●	●	●	●
10 / (6)	13	3.5	9.9	19 (4) 25 (5)	0.3	5		●	●	●	●	●
13 / (7)	16	4.5	12.9	19 (4) 25 (5)	0.4	5		●	●	●	●	●
16 / (8)	19	6	15.9	19 (4) 25 (5)	0.4	5		●	●	●	●	●
20 / (9)	23	8	19.9	19 (4) 25 (5)	0.4	5		●	●	●	●	●
25 / (10)	28	10	24.9	19 (4) 25 (5)	0.4	5		●	●	●	●	●
32 / (11)	35	10	31.9	25 (5) 30 (6)	0.4	5		●	●	●	●	●

Ordering Code (example):
2241.9E5.1650.1220.B



Order Code character
= (B)
= 1220
= 1650
Order No
= (5)
Order Code character
= (E)
Order No
= (9)
Order No
= (1)
Order No
= (4)
= 22

Material:
HSS
Hardness:
Shaft 64 ± 2 HRC
Head 52 ± 5 HRC
ASP 23 - ASP 2023
upon request
Description of FIBRO materials for tool
and die components see at the beginning of
Chapter E.
Execution:
Punch head hot upset-forged. Shoulder, shaft
and punch shape fine ground.
The anti-rotation surface parallel to P = 0° as
standard.
Special dimensions on request.