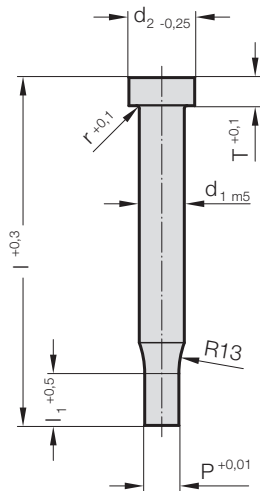


PUNCH, STEPPED, ROUND, ISO 8020



2211.



2211. Punch, stepped, round, ISO 8020

| d <sub>1</sub> / Order No | d <sub>2</sub> | P           | l <sub>1</sub> / Order No | r    | T | l / (Order Code character) | 71<br>(D) | 80<br>(E) | 90<br>(F) | 100<br>(G) | 120<br>(J) |
|---------------------------|----------------|-------------|---------------------------|------|---|----------------------------|-----------|-----------|-----------|------------|------------|
| 3 / (1)                   | 5              | 0,8 - 2,9   | 8 (1) 10 (2)              | 0.25 | 3 |                            | ●         | ●         | ●         | ●          | ●          |
| 4 / (2)                   | 6              | 1 - 3,9     | 8 (1) 13 (3)              | 0.25 | 3 |                            | ●         | ●         | ●         | ●          | ●          |
| 5 / (3)                   | 8              | 1,5 - 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             | 2,5 - 7,9   | 19 (4) 25 (5)             | 0.3  | 5 |                            | ●         | ●         | ●         | ●          | ●          |
| 10 / (6)                  | 13             | 4 - 9,9     | 19 (4) 25 (5)             | 0.3  | 5 |                            | ●         | ●         | ●         | ●          | ●          |
| 13 / (7)                  | 16             | 5 - 12,9    | 19 (4) 25 (5)             | 0.4  | 5 |                            | ●         | ●         | ●         | ●          | ●          |
| 16 / (8)                  | 19             | 8 - 15,9    | 19 (4) 25 (5)             | 0.4  | 5 |                            | ●         | ●         | ●         | ●          | ●          |
| 20 / (9)                  | 23             | 12 - 19,9   | 19 (4) 25 (5)             | 0.4  | 5 |                            | ●         | ●         | ●         | ●          | ●          |
| 25 / (10)                 | 28             | 16,5 - 24,9 | 19 (4) 25 (5)             | 0.4  | 5 |                            | ●         | ●         | ●         | ●          | ●          |
| 32 / (11)                 | 35             | 20 - 31,9   | 25 (5) 30 (6)             | 0.4  | 5 |                            | ●         | ●         | ●         | ●          | ●          |

Material:

HSS

Hardness:

Shaft 64 ± 2 HRC

Head 52 ± 5 HRC

ASP 23 - ASP 2023

upon request

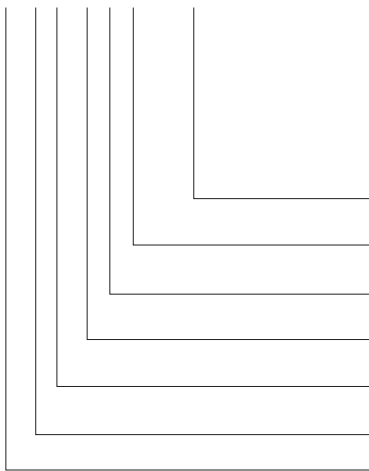
Description of FIBRO materials for tool and die components see at the beginning of Chapter E.

Execution:

Punch head hot upset-forged. Shoulder, shaft and punch diameter fine ground.  
Special dimensions on request.

Ordering Code (example):

2211.7G4.0720



Shape: round

P = Ø 7,2 mm

Punch cutting length: l<sub>1</sub>

19 mm

Length: l

100 mm

Diameter: d<sub>1</sub>

13 mm

Type:

ISO

Execution:

round

Punch:

without ejector pin

= 0720

Order No

= (4)

Order Code character

= (G)

Order No

= (7)

Order No

= (1)

Order No

= (1)

= 22