

# Diamond needle file

## Design:

- for dimensionally correct finishing of cuts, dies and press/ extrusion tools made of hardened steel or hard metal
- also suited for glass, ceramics and other hard materials

## Note:

Quick-clamping handle see 4290

## Grains:

- D 91** (fine): for finishing, smoothing and final filing
- D 126** (medium): for standard tasks and general use
- D 181** (coarse): Roughing



| Item no.     | 431000<br>Grit D 91 | 431050<br>Grit D 126 | 431100<br>Grit D 181 | File shape    | Width<br>mm | Thickness<br>mm | Total<br>length<br>mm | Trimmed<br>surface length<br>mm | Shank<br>diameter<br>mm |
|--------------|---------------------|----------------------|----------------------|---------------|-------------|-----------------|-----------------------|---------------------------------|-------------------------|
| FLACH-STUMPF | ●                   | ●                    | ●                    | hand          | 5,5         | 1,6             | 140                   | 70                              | 3                       |
| DREIKANT     | ●                   | ●                    | ●                    | three square  | 3,5         | —               | 140                   | 70                              | 3                       |
| VIERKANT     | ●                   | ●                    | ●                    | square        | 2,6         | 2,6             | 140                   | 70                              | 3                       |
| HALB-RUND    | ●                   | ●                    | ●                    | half-round    | 5,5         | 1,6             | 140                   | 70                              | 3                       |
| RUND         | ●                   | ●                    | ●                    | round         | 3,2         | 3,2             | 140                   | 70                              | 3                       |
| MESSER       | —                   | ●                    | —                    | knife         | 5           | 1,8             | 140                   | 70                              | 3                       |
| SCHWERT      | ●                   | —                    | —                    | feather edge  | 5           | 2,4             | 140                   | 70                              | 3                       |
| VOGEL-ZUNGE  | ●                   | ●                    | —                    | crossing oval | 5           | 2,2             | 140                   | 70                              | 3                       |