

## Series 141



### Tool holder Designation

**141-10 M 100404-VS-A**  
 Product series  
 Shank size 10 x 10 mm  
 Modular  
 State of development  
 Solid shank  
 Design for knurling wheels  
 10 x 4 x 4 (Ø x width x bore)

### Knurling profiles on DIN 82 workpiece:

#### Plunge/feed knurling



### Selection of knurling wheels:

|        |        |        |                         |                         |
|--------|--------|--------|-------------------------|-------------------------|
| 2 x AA | 2 x BR | 2 x BL | 1 x BL30°/<br>1 x BR30° | 1 x BL45°/<br>1 x BR45° |
|--------|--------|--------|-------------------------|-------------------------|

### Product features:

- Shank size 20 x 20 mm and 25 x 25 mm with Click-Pin® system – for fast retooling of the knurling wheels
- Modular design: Tool can be used as right-hand and left-hand version
- Knurling head with flexible centring
- Set screws in shank for clearance angle correction
- Carbide pins
- Modular shank design: Shank size 10 x 10 mm optionally adaptable

### TOOL VERSIONS:

| Order no. | Tool holder Designation | Working area Ø [mm] | Dimension [mm] |    |       |    |      |      |     | Knurling wheels (Ø x b x b) [mm] |
|-----------|-------------------------|---------------------|----------------|----|-------|----|------|------|-----|----------------------------------|
|           |                         |                     | a              | b  | c     | d  | e    | f    | x   |                                  |
| 31002702  | 141-10M100404-VS-A      | 3-25                | 10             | 10 | 105.5 | 12 | 25.5 | 21   | 1   | 10 x 4 x 4                       |
| 31002703  | 141-12M100404-VS-A      | 3-25                | 12             | 12 | 105.5 | 12 | 25.5 | 22.5 | 1   | 10 x 4 x 4                       |
| 31002658  | 141-16M150404-VS-A      | 6-60                | 16             | 16 | 119   | 16 | 39   | 33   | 1.5 | 15 x 4 x 4                       |
| 31000741  | 141-16M150604-VS-A      | 6-60                | 16             | 16 | 119   | 16 | 39   | 33   | 1.5 | 15 x 6 x 4                       |

Other variants available on request

| Order no. | Tool holder Designation | Working area Ø [mm] | Dimension [mm] |    |     |    |    |    |     | Knurling wheels (Ø x b x b) [mm] |
|-----------|-------------------------|---------------------|----------------|----|-----|----|----|----|-----|----------------------------------|
|           |                         |                     | a              | b  | c   | d  | e  | f  | x   |                                  |
| 31002704  | 141-20M200806-B         | 10-110              | 20             | 20 | 130 | 20 | 50 | 42 | 2.5 | 20 x 8 x 6                       |
| 31002705  | 141-25M200806-B         | 10-110              | 25             | 20 | 130 | 20 | 50 | 46 | 2.5 | 20 x 8 x 6                       |
| 31002721  | 141-25M250806-B         | 15-220              | 25             | 20 | 136 | 20 | 56 | 55 | 2.5 | 25 x 8 x 6                       |

Tools of series 141 can be converted to series 142 and vice versa by replacing the knurling head, with a shank size of 16 x 16 mm or larger

### ADAPTER BRACKET FOR BASE SHANK 10 x 10 mm:

| Order no. | Shank size [mm] |
|-----------|-----------------|
| 21BHR1653 | 12 x 12         |
| 21BHR1654 | 16 x 16         |

### KNURLING HEADS 142:

| Order no. Series 142 | Shank size [mm] | Knurling wheels (Ø x w x b) [mm] |
|----------------------|-----------------|----------------------------------|
| 21BHR0532            | 16 x 16         | 15 x 6 x 6A11                    |
| 21BHR0533            | 20 x 20         | 20 x 8 x 6A13                    |

