



**zeus® FORM KNURLING TOOL 141:**  
**THE GENERALIST WITH TWO KNURLING WHEELS –**  
**TWICE THE RIGIDITY, EASY TO USE!**



- Machine type:** Conventional and CNC – suitable for:
- Swiss type autolathes
- Application:** Form knurling (non-cutting forming)
- Knurling profile on work piece DIN 82:**
- Knurling wheels:**
- Tool direction:**
- Plunge knurling
  - Feed knurling
- Product highlights:**
- Modular shank construction for conversion to alternative shank sizes
  - Modular system: universal knurling tool for both right- / and left-hand orientation. Retooling through fast and easy turning of the knurling head
  - Flexible centering of the tool head
  - Integrated set screws for clearance angle adjustment
  - Pin with face – fixed by a screw – for a quick replacement of the knurling wheel
  - Carbide pins
  - Special surface hardening for increased wear resistance

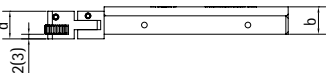
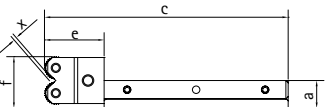
**ORDER EXAMPLE:**

Tool holder No. 141-08 M 100404-A  
Product series  
Shank size 8 x 8 mm  
Modular  
For knurling wheels 10 x 4 x 4 (Ø x width x bore)  
Model A

**TOOL TYPES:**

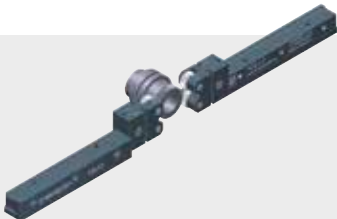
Tool holder No.	Working area Ø mm	a mm	b mm	c mm	d mm	e mm	f mm	x mm
141-08M100404-A	3-12	8	8	105,5	12	26	21	1
141-10M100404-A	3-12	10	10	105,5	12	26	21	1
141-12M100404-A	3-12	12	12	105,5	12	26	23	1
141-16M100404-A	3-12	16	16	105,5	12	26	27	1
141-16M150604-A	5-40	16	16	129	16	39	33	1,5

Knurling wheels mm (Ø x width x bore)	Spare part Pin
10 x 4 x 4	06TER0960
10 x 4 x 4	06TER0960
10 x 4 x 4	06TER0960
10 x 4 x 4	06TER0960
15 x 6 x 4	06TER0964



**FLEXIBILITY:**

Fast and easy turning of the tool head for right- / and left-hand use



**SHANK ADAPTORS:**

Shank size	Part-No.
10 x 10	21BHR0833
12 x 12	21BHR0834
16 x 16	21BHR0835

Modular shank construction for conversion to alternative shank sizes



**zeus® FORM KNURLING TOOL 141:**  
**THE GENERALIST WITH TWO KNURLING WHEELS –**  
**DOUBLE THE RIGIDITY, EASY TO USE!**



- Machine type:** Conventional and CNC – suitable for:
- Automatic short-turning lathes, Universal lathes, Turning- / milling centre
  - Multispindle automatic lathes
- Application:** Form knurling (non-cutting forming)
- Knurling profile on work piece DIN 82:**
- Knurling wheels:**
- Tool direction:**
- Plunge knurling
  - Feed knurling
- Product highlights:**
- Flexible centering of the tool head
  - Integrated set screws for clearance angle adjustment
  - Pin with face – fixed by a screw – for a quick replacement of the knurling wheel
  - Carbide pins
  - Special surface hardening for increased wear resistance

**ORDER EXAMPLE:**

Tool holder No. 141-20M 200806-A-(Z)  
Product series  
Shank size 20 x 20 mm  
Modular  
For knurling wheels 20 x 8 x 6 (Ø x width x bore)  
Model A  
with ClickPin®

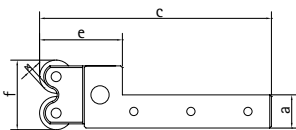
**TOOL TYPES:**

Tool holder No.	Working area Ø mm	a mm	b mm	c mm	d mm	e mm	f mm	x mm
141-20M200806-A	10-80	20	20	130	20	50	42	2,5
141-25M250806-A	50-200	25	20	156	20	56	55	2,5
With ClickPin®:								
141-20M200806-A-Z	10-80	20	20	130	20	50	42	2,5
141-25M250806-A-Z	50-200	25	20	156	20	56	55	2,5

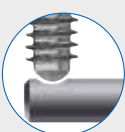
Tool holder No.	Working area Ø mm	a inch	b mm	c mm	d mm	e mm	f mm	x mm
141-80M581414-A	6-15	5/8"	16	119	16	29	34	2
141-85M343814-A	10-80	3/4"	20	130	20	50	41	2
141-90M343814-A	10-80	1"	20	140	20	50	41	2

Knurling wheels mm (Ø x width x bore)	Spare part Pin
20 x 8 x 6	06TER0965
25 x 8 x 6	06TER0965
20 x 8 x 6	06TER1018
25 x 8 x 6	06TER1018

Knurling wheels inch (Ø x width x bore)	Spare part Pin
5/8" x 1/4" x 1/4"	06TER0969
3/4" x 3/8" x 1/4"	06TER0989
3/4" x 3/8" x 1/4"	06TER0989



**CLICK-PIN®-SYSTEM:**



- For fast and safe change of the knurling wheel:
- No more break off through overtightening
  - No more loosening through impact, hits or vibration
  - Quick change and positioning of the knurling wheel

**FLEXIBILITY:**

Fast and easy turning of the tool head for right- / and left-hand use

