

Knurling tools

18965

Knurling tools

Design

- Special surface hardening for improved wear resistance

Applications

Knurling patterns: RAA, RBL, RBR, RGE, RGV, RKE, RKV.

Knurling wheels:

- 1 x type AA (RAA),
- 1 x type BL 30° (RBL),
- 1 x type BR 30° (RBR),
- 1 x type GV (RGE),
- 1 x type GE (RGV),
- 1 x type KV (RKE),
- 1 x type KE (RKV).

Note:

Supplied without knurling wheels
(see art. no. 18970–18974).

18965 101



Applications

For conventional lathes.

18965 103



Design

Cemented-carbide runner pins secured via screw for quick knurling wheel replacement.

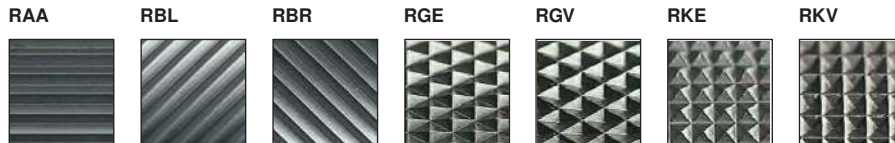
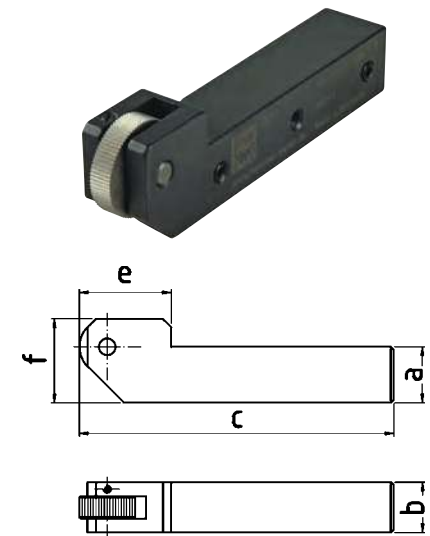
Applications

For conventional and CNC lathes, turning/milling centres, multi-spindle lathes and short/universal machines.

18965 101



18965 103



Working range Ø mm	a mm	b mm	c mm	d mm	e mm	f mm	Knurling wheels mm	18965	...
15–200	16	16	130.0	18	–	–	20 x 8 x 6		101
8–200	20	20	109.5	–	29.5	32.5	20 x 8 x 6		103

18967

Knurling tool



Design

Modular design: Knurling tool can be used universally as right and left-hand version.

Changed over by simple rotation of the knurling head. With flexible centring mechanism. Runner pins secured by screw for fast knurling wheel replacement.

Applications

For conventional and CNC lathes.

Knurling patterns: RAA, RGE 30°, RGE 45°.

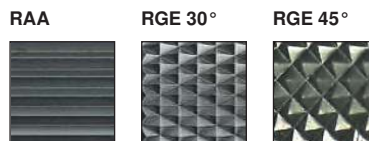
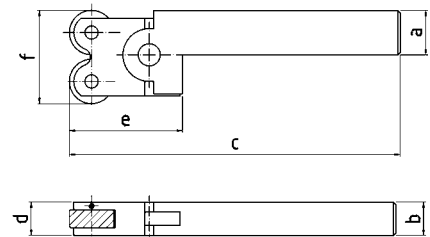
Knurling wheels:

- 2 x type AA (RAA),
- 1 x type BL 30°,
- 1 x type BR 30° (RGE 30°),
- 1 x type BL 45° (RGE 45°),
- 1 x type BR 45° (RGE 45°).

Note:

Supplied without knurling wheels
(see art. no. 18970–18974).

18967



Working range Ø mm	a mm	b mm	c mm	d mm	e mm	f mm	Knurling wheels mm	18967	...
10–80	20	20	130	20	50	42	20 x 8 x 6		101



Design

With two chamfers, profile angle 90°, teeth precision milled, flat sides and bore ground.

Applications

For chipless machining.
For knurling tools art. no. 18965–18967.

Quality

HSS (high-speed steel).

18970
Design
Type AA.

18971
Design
Type BL 30°.

18972
Design
Type BR 30°.

18973
Design
Type GE 30°.

18974
Design
Type GV 30°.

18970

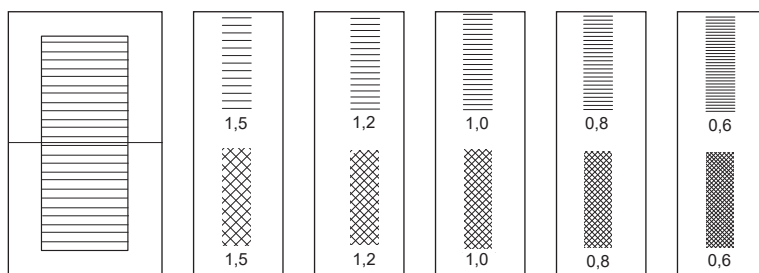
18971

18972



18973

18974



Pitch mm	Pitch TPI	Ø x width x bore mm	AA		BL 30°		BR 30°		GE 30°		GV 30°	
			18970	...	18971	...	18972	...	18973	...	18974	...
1.5	16.9	20 x 8 x 6			202		202		202		102	
1.2	21.2	20 x 8 x 6			203		203		203		103	
1.0	25.4	20 x 8 x 6			204		204		204		104	104
0.8	31.8	20 x 8 x 6			206		206		206		106	106
0.6	42.3	20 x 8 x 6			208		208		208		108	

Knurling tools

18977

Knurling milling tool



Design

Modular design: Tool can be used universally as right and left-hand version. Quick changeover process: simply dismantle and rotate the knurling head. With positioning latching for optimum initial positioning. Fine adjustment of the knurling head via threaded spindle with scaling. Radial and axial rotation lock for optimum tool guidance on the workpiece and improved surface quality. Special surface hardening for increased wear resistance. Delivered without knurled wheels (see art. no. 18983–18985).

Applications

For conventional and CNC lathes, turning/milling centres, multi-spindle machines and short/universal lathes.

Knurling patterns: RAA, RBL 30°, RBR 30°.

Knurling wheels:

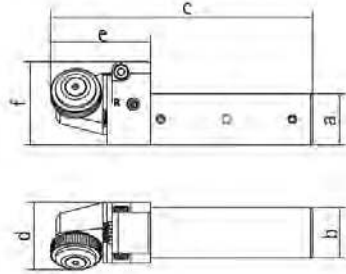
1 x type **BR 30°** (for right version),

1 x type **BL 30°** (for left version),

1 x type **AA RBL 30°/RBR 30°**.



18977



Working range Ø mm	a mm	b mm	c mm	d mm	e mm	f mm	Knurling wheels mm	18977	...
10–300	20	25	129	33	49	36	25 x 6 x 8		101

18978

Knurling milling tool



Design

Modular design: Knurling tool can be used universally as right and left-hand version. Changeover by simple rotation of the knurling head. Versatile: Vertical height adjustment for use on shank sizes 20 and 25 mm. Simple setting: Setting scale and setting spindle for fast setting of the production diameter. Fine adjustment of the tip height by means of height adjustment of the milling head spindle. Special surface hardening for increased wear resistance. Delivered without knurled wheels (see art. no. 18981–18983).

Applications

For conventional and CNC lathes, turning/milling centres, multi-spindle machines and short/universal lathes.

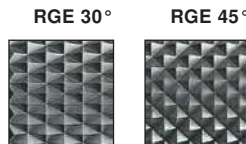
Knurling patterns: RGE 30°, RGE 45°.

Knurling wheels:

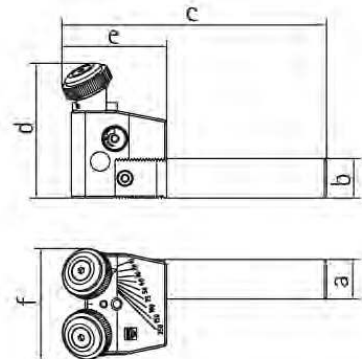
2 x type **AA** (RGE 30°),

1 x type **BL 15°**,

1 x type **BR 15°** (RGE 45°).



18978



Working range Ø mm	a mm	b mm	c mm	d mm	e mm	f mm	Knurling wheels mm	18978	...
10–250	20	20	134	68	54	58	25 x 6 x 8		101

18981 - 18982 Knurling wheels DIN 403 (BR/BL 15°)



Design

Without chamfers, profile angle 90°, teeth precision milled, flat sides and bore ground.

Applications

For chip-removing machining. For knurling tools art. no. 18978.

Quality

PM (powder metal).

Pitch mm	Pitch TPI	BR 15°/Ø 25		BL 15°/Ø 25	
		18981	...	18982	...
0.6	42.3		203		203
0.8	31.8		204		204
1.0	25.4		205		205
1.2	21.2		206		206

18981

Design

Type BR 15°. 25 x 6 x 8 mm
(diameter x width x bore).

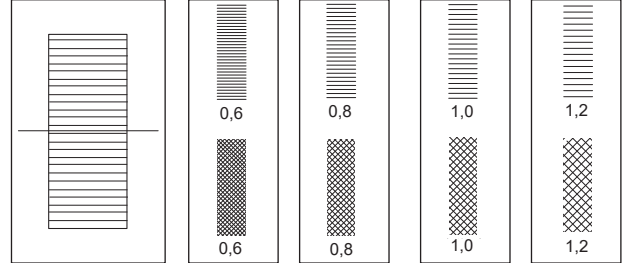
18982

Design

Type BL 15°. 25 x 6 x 8 mm
(diameter x width x bore).

18981

18982



18983 Knurling wheels DIN 403 (AA)



Design

Without chamfers, profile angle 90°, teeth precision milled, flat sides and bore ground.

Applications

For chip-removing machining. For knurling tools art. no. 18977 and 18978.

Quality

PM (powder metal).

Pitch mm	Pitch TPI	AA/Ø 25		AA/Ø 15	
		18983	...	18983	...
0.6	42.3		303		403
0.8	31.8		304		404
1.0	25.4		305		405
1.2	21.2		306		406
1.5	16.9		307		

18983 303-307

Version

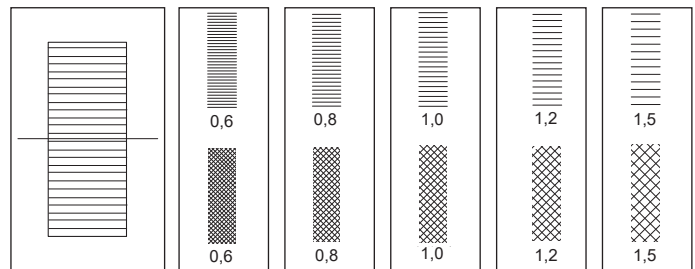
Type AA. 25 x 6 x 8 mm
(diameter x width x bore).

18983 403-406

Design

Type AA. 15 x 4 x 8 mm
(diameter x width x bore).

18983



18984 - 18985 Knurling wheels DIN 403 (BR/BL 30°)



Design

Without chamfers, profile angle 90°, teeth precision milled, flat sides and bores ground.

Applications

For chip-removing machining. For knurling tools art. no. 18977.

Quality

PM (powder metal).

Pitch mm	Pitch TPI	BR 30°		BL 30°	
		18984	...	18985	...
0.6	42.3		203		203
0.8	31.8		204		204
1.0	25.4		205		205
1.2	21.2		206		206
1.5	16.9		207		207

18984

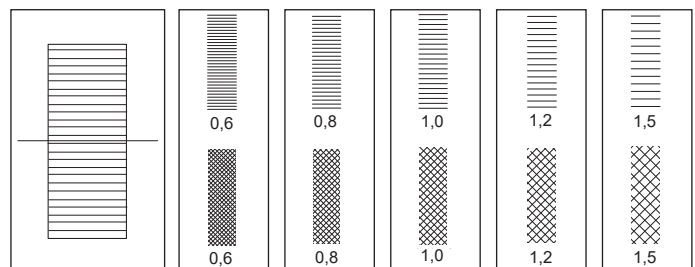
Type BR 30°. 25 x 6 x 8 mm
(diameter x width x bore).

18985

Type BL 30°. 25 x 6 x 8 mm
(diameter x width x bore).

18984

18985



Knurling tools | Circular cutters

18986 - 18987

Knurling wheels for QUICK knurling tools DIN 403 (BR/BL 15°)



Design

Without chamfers, profile angle 90°, teeth precision milled, flat sides and bore ground.

Applications

For chip-removing machining. For quick knurling tools, models I/KF and O/KF.

Quality

PM (powder metal).

18986

Design

Type BR 15°. 21.5 x 5 x 8 mm
(diameter x width x bore).

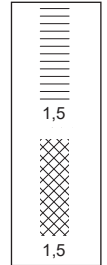
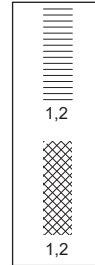
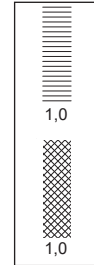
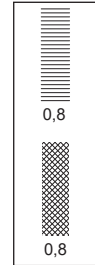
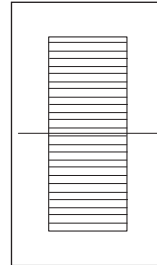
18987

Design

Type BL 15°. 21.5 x 5 x 8 mm
(diameter x width x bore).

18986

18987



BR 15°/Ø 21.5

BL 15°/Ø 21.5

Pitch mm	Pitch TPI	18986	...	18987	...
0.8	31.8			204	204
1.0	25.4			205	205
1.2	21.2			206	206
1.5	16.9			207	207

18990

Knurled wheels for QUICK knurling tools DIN 403 (AA)



Design

Without chamfers, profile angle 90°, teeth precision milled, flat sides and bore ground. Type AA.

Applications

For chip-removing machining. For Quick knurling tools model I/KF.

Quality

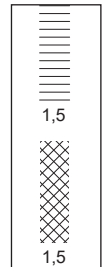
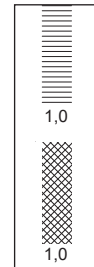
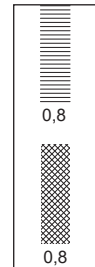
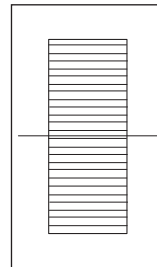
PM (powder metal).

18990

Design

Type AA. 21.5 x 5 x 8 mm
(diameter x width x bore).

18990



Pitch mm	Pitch TPI	Ø x width x bore mm	AA 18990	...
0.8	31.8	21.5 x 5 x 8		204
1.0	25.4	21.5 x 5 x 8		205
1.2	21.2	21.5 x 5 x 8		206
1.5	16.9	21.5 x 5 x 8		207

18991 - 18992

Knurling wheels for QUICK knurling tools DIN 403 (BR/BL 30°)



Design

Without chamfers, profile angle 90°, teeth precision milled, flat sides and bore ground.

Applications

For chip-removing machining. For Quick knurling tools, models I/FL and O/FL.

Quality

PM (powder metal).

18991

Design

Type BR 30°. 21.5 x 5 x 8 mm
(diameter x width x bore).

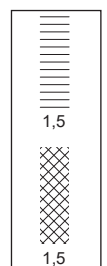
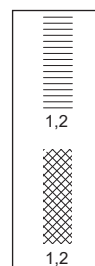
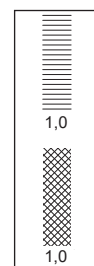
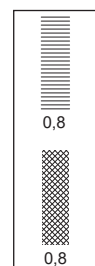
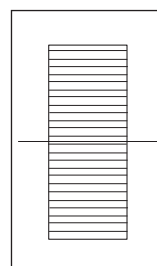
18992

Design

Type BL 30°. 21.5 x 5 x 8 mm
(diameter x width x bore).

18991

18992



Pitch mm	Pitch TPI	Ø x width x bore mm	BR 30° 18991	...	BL 30° 18992	...
0.8	31.8	21.5 x 5 x 8			204	204
1.0	25.4	21.5 x 5 x 8			205	205
1.2	21.2	21.5 x 5 x 8			206	206
1.5	16.9	21.5 x 5 x 8			207	207