

**Garant**
**GARANT Master Steel SlotMachine solid carbide roughing end mill HPC, TiAlN, Ø d11 DC: 14 mm**

**Order data**

Order number	205550 14
GTIN	4045197814210
Item class	11X

**Description**
**Version:**

With a new-type knurled profile, optimised for higher feed rates. Improved cutting edge protection thanks to slight edge honing. Tremendous bending strength due to the use of ultra-fine grain substrate.

Feed rate per tooth up to 0.1 mm up to a depth of  $2 \times D$  (in the slot milled from solid).

**Advantage:**

The tool geometry produces particularly tightly rolled swarf that is discharged via flat chip breaker recesses. As a result, the tool maintains an extremely stable core. Plunge angle of up to  $10^\circ$  possible thanks to generous recess on the front face.

**Application:**

For roughing machining, particularly suitable for full-slot machining.

Tolerance nominal  $\varnothing$ : d11

No. of teeth Z: 5

Helix angle: 42 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

No. of teeth Z: 5

Flute length  $L_c$ : 26 mm

Overhang length  $L_1$  incl. recess: 36 mm

Recess  $\varnothing D_1$ : 13 mm

Overall length L: 83 mm

Shank  $\varnothing D_s$ : 14 mm

**Technical description**

Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$	0.1 mm
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Corner chamfer width at 45°	0.7 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.07 mm
No. of teeth Z	5
Flute length $L_c$	26 mm
Tolerance nominal $\varnothing$	d11
Direction of infeed	horizontal, oblique and vertical
Cutting edge $\varnothing D_c$	14 mm
Overall length L	83 mm
Shank	DIN 6535 HB to h6
Shank $\varnothing D_s$	14 mm
Recess $\varnothing D_1$	13 mm
Overhang length $L_1$ incl. recess	36 mm
Helix angle	42 degrees
Corner chamfer angle	45 degrees
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	DIN 6527
Milling profile	NR
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	0.5×D for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill