

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

**Order data**

Order number	205552 14
GTIN	4045197958990
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.

**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° possible thanks to generous recess on the front face.

**Application:**

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

Tolerance nominal Ø: 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: 52 mm

Recess Ø  $D_1$ : 13 mm

Overall length L: 99 mm

Shank Ø  $D_s$ : 14 mm

**Technical description**

Flute length $L_c$	26 mm
Tolerance nominal Ø	d11

Overhang length $L_1$ incl. recess	52 mm
No. of teeth $Z$	5
Corner chamfer width at $45^\circ$	0.7 mm
Overall length $L$	99 mm
Recess $\varnothing D_1$	13 mm
Shank $\varnothing D_s$	14 mm
Shank	DIN 6535 HB to h6
Helix angle	42 degrees
Feed $f_z$ for slot milling in steel $< 900 \text{ N/mm}^2$	0.07 mm
Direction of infeed	horizontal, oblique and vertical
Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$	0.1 mm
Cutting edge $\varnothing D_c$	14 mm
Corner chamfer angle	45 degrees
Series	GARANT Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Milling profile	NR
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Cutting width $a_e$ for milling operation	$0.4 \times D$ for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill