

## Garant

### GARANT Master Steel SlotMachine solid carbide roughing end mill HPC / TPC, TiAlN, Ø d11 DC: 14 mm



#### Order data

Order number	205554 14
GTIN	4045197959973
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.

##### Problem-solver for TPC 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  $L_c$ : 42 mm

Overhang length  $L_1$  incl. recess: 50 mm

Recess Ø  $D_1$ : 13 mm

Overall length L: 99 mm

Shank Ø  $D_s$ : 14 mm

#### Technical description

Recess Ø $D_1$	13 mm
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Corner chamfer width at 45°	0.7 mm
Shank	DIN 6535 HB to h6
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.07 mm
Cutting edge $\varnothing D_c$	14 mm
Overall length L	99 mm
Helix angle	42 degrees
Flute length $L_c$	42 mm
No. of teeth Z	5
Shank $\varnothing D_s$	14 mm
Tolerance nominal $\varnothing$	d11
Overhang length $L_1$ incl. recess	50 mm
Direction of infeed	horizontal, oblique and vertical
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.09 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 1xD
Cutting width $a_e$ for milling operation	0.4xD for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill