

**Garant**

**GARANT Master Steel SlotMachine solid carbide roughing end mill HPC / TPC, TiAlN, Ø d11 DC: 12 mm**



## Order data

Order number	205557 12
GTIN	4062406377052
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  $L_c$ : 60 mm

Overall length L: 112 mm

Shank Ø  $D_s$ : 12 mm

Corner chamfer width at 45°: 0.6 mm

Feed  $f_z$  for side milling in steel < 900 N/mm<sup>2</sup>: 0.08 mm

## Technical description

Flute length $L_c$	60 mm
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Corner chamfer angle	45 degrees
Tolerance nominal Ø	d11
Cutting edge Ø D <sub>c</sub>	12 mm
Shank Ø D <sub>s</sub>	12 mm
Feed f <sub>z</sub> for side milling in steel < 900 N/mm <sup>2</sup>	0.08 mm
Helix angle	42 degrees
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HB to h6
Overall length L	112 mm
No. of teeth Z	5
Corner chamfer width at 45°	0.6 mm
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 <sub>e</sub> for milling operation	0.2×D for side milling
Through-coolant	no
Machining strategy	TPC
Machining strategy	HPC
Colour ring	green
Type of product	End mill