

## Garant

### GARANT Master Steel SlotMachine solid carbide roughing end mill HPC / TPC, TiAlN, Ø d11 DC: 20 mm



#### Order data

Order number	205555 20
GTIN	4062406275679
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.

##### 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  $L_c$ : 80 mm

Overall length L: 140 mm

Shank Ø  $D_s$ : 20 mm

Corner chamfer width at 45°: 1 mm

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

#### Technical description

Shank	DIN 6535 HB to h6
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Overall length L	140 mm
Direction of infeed	horizontal, oblique and vertical
Corner chamfer angle	45 degrees
Cutting edge $\varnothing D_c$	20 mm
Corner chamfer width at 45°	1 mm
No. of teeth Z	5
Tolerance nominal $\varnothing$	d11
Shank $\varnothing D_s$	20 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.1 mm
Flute length $L_c$	80 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.08 mm
Helix angle	42 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	0.2×D for side milling
Through-coolant	no
Machining strategy	HPC
Machining strategy	TPC
Colour ring	green
Type of product	End mill