

**Garant**
**GARANT Master Steel SlotMachine solid carbide roughing end mill with through-coolant HPC, TiAlN, Ø d11 DC: 10 mm**

**Order data**

Order number	205551 10
GTIN	4062406111175
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 2xD (in the slot milled from solid).

With **internal coolant supply** for reliable swarf evacuation.

**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 and oblique

Shank: DIN 6535 HB to h6

No. of teeth Z: 5

Flute length L<sub>c</sub>: 22 mm

Overhang length L<sub>1</sub> incl. recess: 30 mm

Recess Ø D<sub>1</sub>: 9.3 mm

Overall length L: 72 mm

Shank Ø D<sub>s</sub>: 10 mm

**Technical description**

Direction of infeed	horizontal and oblique
Shank	DIN 6535 HB to h6
Recess $\varnothing D_1$	9.3 mm
No. of teeth Z	5
Corner chamfer width at 45°	0.5 mm
Flute length $L_c$	22 mm
Shank $\varnothing D_s$	10 mm
Cutting edge $\varnothing D_c$	10 mm
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.09 mm
Helix angle	42 degrees
Overhang length $L_1$ incl. recess	30 mm
Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.065 mm
Overall length L	72 mm
Tolerance nominal $\varnothing$	d11
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	0.4×D for side milling
Cutting width $a_e$ for milling operation	0.05×D for copy milling
Through-coolant	yes
Machining strategy	HPC
Colour ring	green
Type of product	End mill

