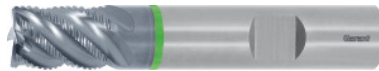


**Garant**
**GARANT Master Steel SlotMachine solid carbide roughing end mill HPC, TiAlN, Ø d11 DC: 5mm**

**Order data**

Order number	205548 5
GTIN	4045197853509
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  $2 \times D$  (in the slot milled from solid).

**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  $10^\circ$  possible thanks to generous recess on the front face.

**Application:**

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

**Technical description**

Overall length L	54 mm
Shank $\varnothing D_s$	6 mm
Direction of infeed	horizontal, oblique and vertical
Flute length $L_c$	9 mm
Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$	0.04 mm
No. of teeth Z	5
Shank	DIN 6535 HB to h6
Corner chamfer width at $45^\circ$	0.25 mm

Feed $f_z$ for slot milling in steel < 900 N/mm <sup>2</sup>	0.03 mm
Cutting edge $\varnothing D_c$	5 mm
Tolerance nominal $\varnothing$	d11
Helix angle	42 degrees
Corner chamfer angle	45 degrees
Series	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	0.5×D for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	200 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	160 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	140 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	110 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	50 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	35 m/min	M
GG(G)	suitable	200 m/min	K
Uni	suitable		

wet maximum	suitable
wet minimum	suitable only under restricted conditions
dry	suitable
Air	suitable