

**Garant**
**GARANT Master Steel SlotMachine solid carbide roughing end mill HPC / TPC, TiAlN, Ø d11 DC: 10mm**

**Order data**

Order number	205557 10
GTIN	4062406377045
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.**

**Technical description**

Corner chamfer width at 45°	0.5 mm
Direction of infeed	horizontal, oblique and vertical
Corner chamfer angle	45 degrees
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.06 mm
Helix angle	42 degrees
Shank Ø $D_s$	10 mm
Shank	DIN 6535 HB to h6
Overall length L	96 mm

Cutting edge $\varnothing D_c$	10 mm
No. of teeth Z	5
Tolerance nominal $\varnothing$	d11
Flute length $L_c$	50 mm
Series	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	TPC
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	160 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	150 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	130 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	110 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	80 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	40 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	25 m/min	M
GG(G)	suitable	160 m/min	K
Uni	suitable		
wet maximum	suitable		

wet minimum	suitable only under restricted conditions
dry	suitable
Air	suitable