

## Garant

### GARANT Master Steel solid carbide finishing cutter HPC, TiAlN, Ø f8 DC: 10mm



#### Order data

Order number	204014 10
GTIN	4045197886712
Item class	11X

#### Description

##### Version:

For **finishing operations**.

Special geometry for optimum chip evacuation.

Unequal spacing gives high **intrinsic stability and smooth cutting action**.

For **profile milling as a finishing operation**.

Suitable for machining titanium and titanium alloys.

##### Note:

$$a_{e\max} = 0.1 \times D$$

Can be reground from  $\varnothing D_c = 6$  mm.

Tolerance nominal  $\varnothing$ : f8

No. of teeth Z: 7

Helix angle: 45°

Direction of infeed: horizontal

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 7

Flute length  $L_c$ : 30 mm

Overall length L: 80 mm

Shank  $\varnothing D_s$ : 10 mm

Corner chamfer width at 45°: 0.1 mm

Feed  $f_z$  for side milling in steel < 900 N/mm<sup>2</sup>: 0.081 mm

#### Technical description

Corner chamfer width at 45°	0.1 mm
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Direction of infeed	horizontal
No. of teeth Z	7
Tolerance nominal $\varnothing$	f8
Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup>	0.081 mm
Overall length L	80 mm
Balance quality with shank	G 2.5 with HA
Cutting edge $\varnothing D_c$	10 mm
Shank $\varnothing D_s$	10 mm
Flute length $L_c$	30 mm
Shank	DIN 6535 HA to h6
Helix angle	45 °
Corner chamfer angle	45 °
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Spacing of the cutters	unequal spacing
Cutting width $a_e$ for milling operation	0.1×D for side milling
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	360 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	340 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	300 m/min	P

Steel < 1100 N/mm <sup>2</sup>	suitable	290 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	200 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	130 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	120 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable only under restricted conditions	100 m/min	S
GG(G)	suitable	300 m/min	K
wet maximum	suitable only under restricted conditions		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		
Air	suitable		
<b>Services</b>			

Shank grinding Type HB

129100 HB