

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

**Order data**

Order number	204016 10
GTIN	4045197886798
Item class	11X

**Description**
**Version:**

Suitable for machining titanium and titanium alloys.

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**.

Particularly long cutting edges for efficient finishing.

**Note:**

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

$a_{e \text{ max}} = 0.05 \times D$

**Technical description**

Balance quality with shank	G 2.5 with HA
No. of teeth Z	7
Overall length L	89 mm
Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$	0.065 mm
Direction of infeed	horizontal
Tolerance nominal $\varnothing$	f8
Shank $\varnothing D_s$	10 mm
Corner chamfer width at $45^\circ$	0.1 mm
Flute length $L_c$	40 mm

Shank	DIN 6535 HA to h6
Cutting edge Ø D <sub>c</sub>	10 mm
Helix angle	45 degrees
Corner chamfer angle	45 degrees
Series	Master Steel
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Spacing of the cutters	unequal spacing
Cutting width a <sub>e</sub> for milling operation	0.05×D for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End / face mill

## User data

	Suitability	V <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	240 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	220 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	200 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	180 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	150 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	90 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	80 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable only under restricted conditions	100 m/min	S
GG(G)	suitable	200 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
Services	
Shank grinding Type HB	129100 HB