

## Garant

### GARANT Master Steel solid carbide finishing cutter HPC, TiAlN, Ø f8 DC: 20 mm



#### Order data

Order number	204019 20
GTIN	4045197954268
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**.

Particularly long cutting edges for efficient finishing.

##### Note:

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

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

Tolerance nominal  $\varnothing$ : f8

No. of teeth Z: 7

Helix angle: 45 degrees

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  $L_c$ : 100 mm

Overall length L: 160 mm

Shank  $\varnothing D_s$ : 20 mm

Feed  $f_z$  for side milling in steel < 900 N/mm<sup>2</sup>: 0.122 mm

#### Technical description

Flute length $L_c$	100 mm
Direction of infeed	horizontal

Cutting edge $\varnothing D_c$	20 mm
Feed $f_z$ for side milling in steel $< 900 \text{ N/mm}^2$	0.122 mm
Overall length L	160 mm
Helix angle	45 degrees
Shank $\varnothing D_s$	20 mm
No. of teeth Z	7
Balance quality with shank	G 2.5 with HA
Shank	DIN 6535 HA to h6
Tolerance nominal $\varnothing$	f8
Corner chamfer angle	90 degrees
Series	GARANT 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	$0.05 \times D$ for side milling
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End mill

## Services

Shank clamping flats for shrink-fit chucks, with retainer function Shank $\varnothing$ tool 20 mm	SZ2025 20
Shank grinding Type HB	129100 HB