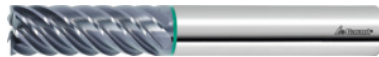


## Garant

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



#### Order data

|              |               |
|--------------|---------------|
| Order number | 204014 20     |
| GTIN         | 4045197886767 |
| 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**.

##### Note:

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

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

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  $L_c$ : 60 mm

Overall length L: 126 mm

Shank  $\varnothing D_s$ : 20 mm

Corner chamfer width at 45°: 0.2 mm

Feed  $f_z$  for side milling in steel < 900 N/mm<sup>2</sup>: 0.13 mm

#### Technical description

|                  |                   |
|------------------|-------------------|
| Shank            | DIN 6535 HA to h6 |
| Overall length L | 126 mm            |

|  |                         |
|--|-------------------------|
| Balance quality with shank                                   | G 2.5 with HA           |
| Corner chamfer width at 45°                                  | 0.2 mm                  |
| Cutting edge $\varnothing D_c$                               | 20 mm                   |
| Flute length $L_c$   | 60 mm                   |
| Shank $\varnothing D_s$                                      | 20 mm                   |
| No. of teeth Z   | 7                       |
| Direction of infeed  | horizontal              |
| Tolerance nominal $\varnothing$                              | f8                      |
| Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup> | 0.13 mm                 |
| Helix angle  | 45 degrees              |
| Corner chamfer angle   | 45 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                    | 0.1×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 |