

## Garant

### Solid carbide barrel milling cutter, straight form PPC, TiAlN, Ø f8 DC / R2: 10/60 mm



#### Order data

|              |               |
|--------------|---------------|
| Order number | 207520 10/60  |
| GTIN         | 4045197922618 |
| Item class   | 11X           |

#### Description

##### Version:

High-performance tool for **exceptionally efficient finish machining of free-form surfaces**. For outstanding surface qualities in a **very short machining time**. For use on modern 5-axis milling machines with CAD / CAM support.

##### Recommendation:

As an oversize for finishing operations we recommend 0.05 to 0.2 mm.

##### Note:

$R_2$  represents the effective radius on the tool.

Cannot be reground!

No. of teeth Z: 5

Helix angle: 30 degrees

No. of teeth Z: 5

Flute length  $L_c$ : 21.5 mm

Effective radius  $R_2$ : 60 mm

Corner radius  $R_1$ : 1 mm

Overhang length  $L_1$  incl. recess: 30 mm

Recess  $\varnothing D_1$ : 8 mm

#### Technical description

|  |         |
|--|---------|
| Flute length $L_c$   | 21.5 mm |
| Feed $f_z$ for side milling in steel < 900 N/mm <sup>2</sup> | 0.06 mm |
| Feed $f_z$ for copy milling in steel < 900 N/mm <sup>2</sup> | 0.08 mm |
| Recess $\varnothing D_1$                                     | 8 mm    |

|   |                         |
|---|-------------------------|
| Shank $\varnothing D_s$                   | 10 mm                   |
| No. of teeth Z                            | 5                       |
| Overall length L                          | 72 mm                   |
| Overhang length $L_1$ incl. recess        | 30 mm                   |
| Effective radius $R_2$                    | 60 mm                   |
| Corner radius $R_1$                       | 1 mm                    |
| Helix angle                               | 30 degrees              |
| Coating                                   | TiAlN                   |
| Tool material                             | Solid carbide           |
| Standard                                  | Manufacturer's standard |
| Type                                      | N                       |
| Tolerance nominal $\varnothing$           | f8                      |
| Spacing of the cutters                    | unequal spacing         |
| Direction of infeed                       | horizontal              |
| Cutting width $a_e$ for milling operation | 0.05×D for copy milling |
| Cutting width $a_e$ for milling operation | 0.05×D for side milling |
| Shank                                     | DIN 6535 HA to h6       |
| Machining strategy                        | PPC                     |
| Colour ring                               | green                   |
| Type of product                           | End mill                |

## Services

|                        |           |
|------------------------|-----------|
| Shank grinding Type HB | 129100 HB |
|------------------------|-----------|