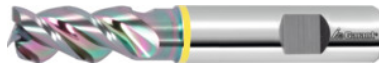


## Garant

### Solid carbide milling cutter with internal coolant supply MTC, DLC, Ø DC: 20 mm



#### Order data

|              |               |
|--------------|---------------|
| Order number | 202278 20     |
| GTIN         | 4045197655196 |
| Item class   | 11X           |

#### Description

##### Version:

With the latest generation of **DLC coating sp<sup>2</sup>**.

**Eccentric relief ground**, additionally **polish ground** in the flutes for **outstanding chip evacuation** in long-chipping aluminium components.

Lengths similar to **DIN 6527 long**.

##### Application:

Especially for **MTC (Multi Task Cutting)** use on the new generation of turning / milling centres.

##### Note:

**NEW GENERATION AVAILABLE!**

**Recommended successor product is No. 202006.**

Tolerance nominal Ø: h6

No. of teeth Z: 3

Helix angle: 45 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 3

Flute length L<sub>c</sub>: 41 mm

Overhang length L<sub>1</sub> incl. recess: 52 mm

Recess Ø D<sub>1</sub>: 19 mm

Overall length L: 104 mm

Shank Ø D<sub>s</sub>: 20 mm

#### Technical description

|   |       |
|---|-------|
| Overhang length L <sub>1</sub> incl. recess | 52 mm |
|---|-------|

|   |                                  |
|---|----------------------------------|
| Recess $\varnothing D_1$                                | 19 mm                            |
| Feed $f_z$ for slot milling in short-chipping aluminium | 0.085 mm                         |
| Shank form  | HB                               |
| Corner chamfer width at 45°                             | 0.2 mm                           |
| No. of teeth Z  | 3                                |
| Cutting edge $\varnothing D_c$                          | 20 mm                            |
| Feed $f_z$ for side milling in short-chipping aluminium | 0.12 mm                          |
| Shank $\varnothing D_s$                                 | 20 mm                            |
| Overall length L  | 104 mm                           |
| Flute length $L_c$                                      | 41 mm                            |
| Direction of infeed                                     | horizontal, oblique and vertical |
| Shank   | DIN 6535 HB to h6                |
| Tolerance nominal $\varnothing$                         | h6                               |
| Balance quality with shank                              | G 2.5 with HB                    |
| Helix angle   | 45 degrees                       |
| Corner chamfer angle                                    | 45 degrees                       |
| Coating   | DLC                              |
| Tool material   | Solid carbide                    |
| Standard  | DIN 6527                         |
| Type  | W                                |
| Helix angle characteristic                              | unequal spacing                  |
| Cutting width $a_e$ for milling operation               | 0.5×D for side milling           |
| Cutting width $a_e$ for milling operation               | Full slot cutting depth 1×D      |
| Through-coolant   | yes                              |
| Machining strategy                                      | MTC                              |
| Colour ring   | yellow                           |
| Type of product   | End mill                         |

## Services

|   |             |
|---|-------------|
| Shank recess Type FRST  | 209900 FRST |
| Shank clamping flats for shrink-fit chucks, with retainer function Shank Ø tool 20 mm | SZ2025 20   |