

**Garant**
**GARANT Master Alu solid carbide milling cutter HPC, DLC, Ø DC: 20M mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 202512 20M    |
| GTIN         | 4062406238964 |
| Item class   | 11X           |

**Description**
**Version:**
**Extra sharp cutting edges.**

Dimensions similar to DIN6527.

For roughing and finishing. Up to 2xD into solid material at very high feed rates and smooth cutting action.

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

**Note:**
**Successor product to No. 202515.**

Tolerance nominal Ø: h6

No. of teeth Z: 4

Helix angle: 38 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length L<sub>c</sub>: 60 mm

Overhang length L<sub>1</sub> incl. recess: 74 mm

Recess Ø D<sub>1</sub>: 19 mm

Overall length L: 126 mm

Shank Ø D<sub>s</sub>: 20 mm

**Technical description**

|  |            |
|--|------------|
| Overall length L   | 126 mm     |
| Feed f <sub>z</sub> for side milling in short-chipping aluminium | 0.22 mm    |
| Helix angle  | 38 degrees |

|   |                                      |
|---|--------------------------------------|
| Tolerance nominal $\varnothing$                         | h6                                   |
| Flute length $L_c$                                      | 60 mm                                |
| Cutting edge $\varnothing D_c$                          | 20 mm                                |
| Direction of infeed                                     | horizontal, oblique and vertical     |
| Recess $\varnothing D_1$                                | 19 mm                                |
| Shank $\varnothing D_s$                                 | 20 mm                                |
| Overhang length $L_1$ incl. recess                      | 74 mm                                |
| Shank   | DIN 6535 HA to h6                    |
| Feed $f_z$ for slot milling in short-chipping aluminium | 0.18 mm                              |
| No. of teeth $Z$  | 4                                    |
| Corner chamfer angle                                    | 90 degrees                           |
| Series  | GARANT Master Alu                    |
| Coating   | DLC                                  |
| Tool material   | Solid carbide                        |
| Standard  | DIN 6527                             |
| Type  | W                                    |
| Cutting width $a_e$ for milling operation               | Full slot cutting depth $1 \times D$ |
| Cutting width $a_e$ for milling operation               | $0.25 \times D$ for side milling     |
| Through-coolant   | no                                   |
| Machining strategy                                      | HPC                                  |
| Colour ring   | yellow                               |
| 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 |