

**Garant****GARANT Master Alu solid carbide milling cutter, HPC HPC, uncoated, Ø e8 DC: 20 mm****Order data**

|              |               |
|--------------|---------------|
| Order number | 203207 20     |
| GTIN         | 4062406565909 |
| 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.

Tolerance nominal Ø: e8

No. of teeth Z: 5

Helix angle: 38 degrees

Direction of infeed: horizontal

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 5

Flute length  $L_c$ : 60 mm

Overhang length  $L_1$  incl. recess: 70 mm

Recess Ø  $D_1$ : 19.5 mm

Overall length L: 125 mm

Shank Ø  $D_s$ : 20 mm

**Technical description**

|                     |                   |
|---------------------|-------------------|
| Flute length $L_c$  | 60 mm             |
| Shank Ø $D_s$       | 20 mm             |
| Tolerance nominal Ø | e8                |
| Shank               | DIN 6535 HA to h6 |

|                                                         |                                      |
|---------------------------------------------------------|--------------------------------------|
| Corner chamfer angle                                    | 90 degrees                           |
| No. of teeth Z                                          | 5                                    |
| Feed $f_z$ for side milling in short-chipping aluminium | 0.09 mm                              |
| Overall length L                                        | 125 mm                               |
| Helix angle                                             | 38 degrees                           |
| Recess $\varnothing D_1$                                | 19.5 mm                              |
| Balance quality with shank                              | G 2.5 with HA                        |
| Cutting edge $\varnothing D_c$                          | 20 mm                                |
| Direction of infeed                                     | horizontal                           |
| Overhang length $L_1$ incl. recess                      | 70 mm                                |
| Series                                                  | GARANT Master Alu                    |
| Coating                                                 | uncoated                             |
| Tool material                                           | Solid carbide                        |
| Standard                                                | Manufacturer's standard              |
| Type                                                    | W                                    |
| Spacing of the cutters                                  | unequal spacing                      |
| Cutting width $a_e$ for milling operation               | Full slot cutting depth $1 \times D$ |
| Through-coolant                                         | no                                   |
| Machining strategy                                      | HPC                                  |
| Colour ring                                             | yellow                               |
| Type of product                                         | End mill                             |

## Services

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