

**Garant**
**Solid carbide end mill HPC, ZOx, Ø f8 DC: 16mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 203170 16     |
| GTIN         | 4045197271969 |
| Item class   | 11X           |

**Description**
**Version:**

With strong core, **special chip-breaker recesses** and **large polished flutes**.

**Application:**

For milling on the most demanding component surfaces.

Suitable exclusively for profile milling.

**Technical description**

|   |                        |
|---|------------------------|
| Overhang length $L_1$ incl. recess                      | 44 mm                  |
| Feed $f_z$ for side milling in short-chipping aluminium | 0.06 mm                |
| Recess $\varnothing D_1$                                | 15 mm                  |
| No. of teeth $Z$  | 6                      |
| Cutting edge $\varnothing D_c$                          | 16 mm                  |
| Shank $\varnothing D_s$                                 | 16 mm                  |
| Overall length $L$                                      | 93 mm                  |
| Flute length $L_c$                                      | 40 mm                  |
| Direction of infeed                                     | horizontal and oblique |
| Shank   | DIN 6535 HA to h6      |
| Tolerance nominal $\varnothing$                         | f8                     |
| Balance quality with shank                              | G 2.5 with HA          |
| Helix angle   | 48 degrees             |

|   |                                  |
|---|----------------------------------|
| Corner chamfer angle                      | 90 degrees                       |
| Coating                                   | ZOX                              |
| Tool material                             | Solid carbide                    |
| Standard                                  | Manufacturer's standard          |
| Type                                      | W                                |
| Helix angle characteristic                | unequal spacing                  |
| Spacing of the cutters                    | unequal spacing                  |
| Cutting width $a_e$ for milling operation | $0.05 \times D$ for side milling |
| Through-coolant                           | no                               |
| Machining strategy                        | HPC                              |
| Colour ring                               | yellow                           |
| Type of product                           | End / face mill                  |

## User data

|                            | Suitability                               | $V_c$     | ISO code |
|----------------------------|---|-----------|----------|
| Alu plastics               | suitable                                  | 460 m/min | N        |
| Aluminium (short chipping) | suitable                                  | 400 m/min | N        |
| Alu > 10% Si               | suitable                                  | 210 m/min | N        |
| CuZn                       | suitable                                  | 180 m/min | N        |
| wet maximum                | suitable                                  |           |          |
| wet minimum                | suitable only under restricted conditions |           |          |
| Air                        | suitable only under restricted conditions |           |          |