

**Garant**
**Diabolo solid carbide torus cutter R1 0.3, TiAlN, Ø DC × L1: 2X16 mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 206158 2X16   |
| GTIN         | 4062406187873 |
| Item class   | 11X           |

**Description**
**Version:**
**GARANT Diabolo:**

Special geometry, coating and carbide **for hard machining in the high-performance field.**  
Suitable even for machining **electrolytic copper.**

Double-relief ground with 2 chamfers hollow ground for high-precision hard machining.

**Recess angle  $\alpha = 16^\circ$ .**

Tolerances:

- **Corner radius:  $R_1 = \pm 0.0025$  mm.**
- **Neck Ø:  $D_1 = 0 / -0.01$  mm.**

**Note:**

At greater tool overhang lengths, use a reduced value for  $a_p$ !

Values for:

side milling:  $a_p = 0.1 \times D \times a_{p \text{ korr}}$

copying:  $a_p = 0.05 \times D \times a_{p \text{ korr}}$

**To calculate the feed rate  $v_f$  please use the actual speed of the machine (the maximum possible speed)! e.g:  $v_f = 18000 \text{ [rpm]} \times f_z \text{ [mm/Z]} \times z$**

No. of teeth Z: 2

Helix angle: 30 degrees

Shank: DIN 6535 HA to h5

No. of teeth Z: 2

Overhang length  $L_1$  incl. recess: 12 mm

Shank Ø  $D_s$ : 4 mm

**Technical description**

|                |      |
|----------------|------|
| No. of teeth Z | 2    |
| Shank Ø $D_s$  | 4 mm |

|                                           |                                  |
|-------------------------------------------|----------------------------------|
| Overhang length $L_1$ incl. recess        | 12 mm                            |
| Cutting edge $\varnothing D_c$            | 2 mm                             |
| Shank                                     | DIN 6535 HA to h5                |
| Helix angle                               | 30 degrees                       |
| Series                                    | Diabolo                          |
| Coating                                   | TiAlN                            |
| Tool material                             | Solid carbide                    |
| Standard                                  | Manufacturer's standard          |
| Type                                      | H                                |
| Tolerance nominal $\varnothing$           | 0 / -0.005                       |
| Direction of infeed                       | horizontal, oblique and vertical |
| Cutting width $a_e$ for milling operation | 0.05×D for copy milling          |
| Cutting width $a_e$ for milling operation | 0.05×D for copy milling          |
| Through-coolant                           | no                               |
| Colour ring                               | red                              |
| Type of product                           | End mill                         |