

Garant
Diabolo solid carbide torus cutter HPC, TiAlN, Ø e8 DC / R1: 2/0,2 mm

Order data

| | |
|--------------|---------------|
| Order number | 206162 2/0,2 |
| GTIN | 4045197597717 |
| Item class | 11X |

Description
Version:
GARANT Diabolo:

Special geometry, coating and carbide, specially for hard machining.

For copy milling with **angle α : 1° 30'**. Double relief ground side clearance angle.

Tolerances:

- **Corner radius: $R_1 = \pm 0.005$ mm.**
- **Angle $\alpha = \pm 20'$.**

Note:

Standard application values:

f_z for $a_p = 0.1 \times D$.

No. of teeth Z: 2

Helix angle: 30 degrees

Shank: DIN 6535 HA to h6

No. of teeth Z: 2

Flute length L_c : 2.4 mm

Corner radius R_1 : 0.2 mm

Overhang length L_1 incl. recess: 4 mm

maximum shank recess dia. D_6 : 3 mm

Recess $\varnothing D_1$: 1.95 mm

Technical description

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|---|----------|
| Recess $\varnothing D_1$ | 1.95 mm |
| Cutting edge $\varnothing D_c$ | 2 mm |
| Feed f_z for copy milling in steel < 65 HRC | 0.005 mm |
| Overhang length L_1 incl. recess | 4 mm |

| | |
|---|----------------------------------|
| Corner radius R_1 | 0.2 mm |
| Feed f_z for side milling in steel < 65 HRC | 0.005 mm |
| L_2 | 27 mm |
| No. of teeth Z | 2 |
| Shank $\varnothing D_s$ | 3 mm |
| Flute length L_c | 2.4 mm |
| Overall length L | 75 mm |
| Shank | DIN 6535 HA to h6 |
| Helix angle | 30 degrees |
| maximum shank recess dia. D_6 | 3 mm |
| Series | Diabolo |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Standard | Manufacturer's standard |
| Type | H |
| Tolerance nominal \varnothing | e8 |
| Direction of infeed | horizontal, oblique and vertical |
| Cutting width a_e for milling operation | 0.2×D for side milling |
| Cutting width a_e for milling operation | 0.05×D for copy milling |
| Through-coolant | no |
| Machining strategy | HPC |
| Shank tolerance | h6 |
| Colour ring | red |
| Type of product | End mill |