

Garant
Solid carbide torus cutter R1 0.1, Diamond, Ø DC × L1: 1X2 mm

Order data

Order number	209716 1X2
GTIN	4062406186999
Item class	11Y

Description
Version:

With **crystalline diamond sp³ coating**. For the **highest demands regarding performance and precision** in fibre-reinforced composites, CRP, GRP, and graphite. **Extremely tight tolerances** ensure maximum accuracy. Double relief ground with 2 hollow-ground chamfers. **Recess angle $\alpha = 16^\circ$** .

Tolerances:

- **Corner radius: $RS_1 = \pm 0.0025\text{mm}$**
- **Neck Ø: $D_4 = 0 / -0.01\text{ mm}$**

Note:

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

Values for:

copying: $a_p = 0.10 \times D \times a_{p\text{ korr}}$

side milling: $a_p = 0.20 \times D \times a_{p\text{ korr}}$

To calculate the feed rate vf please use the actual speed of the machine (the maximum possible speed)!

e.g: $vf = 18000 [\text{rpm}] \times fz [\text{mm/Z}] \times z$

No. of teeth Z: 2

Helix angle: 30 degrees

Shank: DIN 6535 HA to h5

No. of teeth Z: 2

Shank Ø D_s : 4 mm

Technical description

Shank	DIN 6535 HA to h5
No. of teeth Z	2

Helix angle	30 degrees
Shank $\varnothing D_s$	4 mm
Coating	Diamond
Tool material	Solid carbide
Standard	Manufacturer's standard
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	0.5×D for side milling
Through-coolant	no
Colour ring	black
Type of product	End mill