

## Garant

### Diabolo solid carbide copy slot drill, TiAlN, Ø Dc × L1: 0,5X3 mm



## Order data

Order number	207377 0,5X3
GTIN	4062406387648
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.**

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

Extra-sturdy shank for achieving longer tool life.

Tolerances:

- **Corner radius: Radius contour = 0 / -0.005 mm.**
- **Neck Ø: D<sub>1</sub> = 0 / -0.01 mm.**

### Note:

At greater tool overhang lengths, use a reduced value for a<sub>p</sub>!  
values for:

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

**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: 25 degrees

No. of teeth Z: 2

Flute length L<sub>c</sub>: 0.4 mm

Corner radius R<sub>1</sub>: 0.25 mm

Overhang length L<sub>1</sub> incl. recess: 3 mm

Recess Ø D<sub>1</sub>: 0.47 mm

Overall length L: 54 mm

## Technical description

Recess Ø D <sub>1</sub>	0.47 mm
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Flute length $L_c$	0.4 mm
Feed $f_z$ for copy milling in steel < 65 HRC	0.018 mm
Overall length L	54 mm
Cutting edge $\varnothing D_c$	0.5 mm
Helix angle	25 degrees
Shank $\varnothing D_s$	6 mm
Correction factor $a_{p\text{ corr}}$	0.9
Corner radius $R_1$	0.25 mm
No. of teeth Z	2
Overhang length $L_1$ incl. recess	3 mm
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
Shank	DIN 6535 HA to h5
Through-coolant	no
Colour ring	red
Type of product	End mill