

**Garant**
**Diabolo solid carbide copy slot drill, TiAlN, Ø Dc × L1: 0,5X1 mm**

**Order data**

Order number	207377 0,5X1
GTIN	4062406387624
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: 1 mm

Recess Ø D<sub>1</sub>: 0.47 mm

Overall length L: 54 mm

**Technical description**

Shank Ø D <sub>s</sub>	6 mm
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Flute length $L_c$	0.4 mm
Overhang length $L_1$ incl. recess	1 mm
No. of teeth $Z$	2
Corner radius $R_1$	0.25 mm
Helix angle	25 degrees
Cutting edge $\varnothing D_c$	0.5 mm
Correction factor $a_{p\text{corr}}$	1
Recess $\varnothing D_1$	0.47 mm
Overall length $L$	54 mm
Feed $f_z$ for copy milling in steel < 65 HRC	0.018 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