

**Garant**
**Diabolo solid carbide high precision ball nose slot drill HPC, TiAlN, Ø DC: 1 mm**

**Order data**

Order number	207347 1
GTIN	4045197599957
Item class	11X

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

Special geometry, coating and carbide for hard machining.

**Solid carbide high precision ball nose slot drill with radius Ø and contour variations within the µm range.**

Tolerance: Radius contour =  $\pm 0.005$  mm.

No. of teeth Z: 2

Helix angle: 30 degrees

No. of teeth Z: 2

Flute length  $L_c$ : 1 mm

Overhang length  $L_1$  incl. recess: 2 mm

Recess Ø  $D_1$ : 0.96 mm

Overall length L: 50 mm

Shank Ø  $D_s$ : 3 mm

**Technical description**

Feed $f_z$ for side milling in steel < 65 HRC	0.005 mm
Overhang length $L_1$ incl. recess	2 mm
Cutting edge Ø $D_c$	1 mm
Feed $f_z$ for copy milling in steel < 65 HRC	0.005 mm
Recess Ø $D_1$	0.96 mm
No. of teeth Z	2

Shank $\varnothing D_s$	3 mm
Overall length L	50 mm
Flute length $L_c$	1 mm
Helix angle	30 degrees
Radius R	0.5 mm
Series	Diabolo
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Tolerance nominal $\varnothing$	-0.007 / 0.002
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	0.2×D for side milling
Shank	DIN 6535 HA to h5
Through-coolant	no
Machining strategy	HPC
Colour ring	red
Type of product	End mill