

Garant
Diabolo solid carbide micro slot drill, TiAlN, Ø DC × L1: 0,7X2 mm


Order data

Order number	201631 0,7X2
GTIN	4062406089641
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.** Double-relief ground 2 chamfers hollow ground for high-precision hard machining.

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

Tolerances:

• **Neck Ø: $D_1 = 0 / -0.01$ mm.**

Note:

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

Values for:

slots milled from solid: $a_p = 0.05 \times D \times a_p \text{ korr}$

side milling: $a_p = 0.1 \times D \times a_p \text{ korr}$

To calculate the feed rate vf please use the actual speed of the machine (the maximum possible speed)! e.g. $vf = 18000 [\text{rpm}] \times fz [\text{mm/Z}] \times z$

Through-coolant: no

Tolerance nominal Ø: $0 / -0.005$

No. of teeth Z: 2

Helix angle: 25 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h5

No. of teeth Z: 2

Flute length L_c : 1 mm

Overhang length L_1 incl. recess: 2 mm

Recess Ø D_1 : 0.68 mm

Overall length L: 45 mm

Shank Ø D_s : 4 mm

Technical description

Correction factor $a_{p\text{ corr}}$	1
Feed f_z for slot milling in steel < 65 HRC	0.01 mm
Helix angle	25 degrees
Feed f_z for side milling in steel < 65 HRC	0.012 mm
Shank $\varnothing D_s$	4 mm
Shank	DIN 6535 HA to h5
Tolerance nominal $\varnothing$	0 / -0.005
Overhang length L_1 incl. recess	2 mm
Overall length L	45 mm
Flute length L_c	1 mm
Direction of infeed	horizontal, oblique and vertical
Recess $\varnothing D_1$	0.68 mm
No. of teeth Z	2
Cutting edge $\varnothing D_c$	0.7 mm
Corner chamfer angle	90 degrees
Series	Diabolo
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Cutting width a_e for milling operation	Full slot cutting depth $1 \times D$
Cutting width a_e for milling operation	$0.1 \times D$ for side milling
Through-coolant	no
Colour ring	red
Type of product	End mill