

Garant
Solid carbide micro slot drill, Diamond, Ø DC × L1: 0,6X6mm

Order data

Order number	209700 0,6X6
GTIN	4045197917065
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:

- **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: $a_p = 0.1 \times D \times a_{p\text{ korr}}$

side milling: $a_p = 0.2 \times D \times a_{p\text{ korr}}$

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

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

Technical description

Tolerance nominal Ø	0 / -0.005
Feed f_z for slot milling in graphite	0.012 mm
Shank Ø D_s	4 mm
Overhang length L_1 incl. recess	6 mm
Cutting edge Ø D_c	0.6 mm
No. of teeth Z	2

Recess $\varnothing D_1$	0.58 mm
Feed f_z for side milling in graphite	0.016 mm
Flute length L_c	0.9 mm
Direction of infeed	horizontal, oblique and vertical
Overall length L	45 mm
Shank	DIN 6535 HA to h5
Helix angle	25 degrees
Correction factor $a_{p\ corr}$	0.5
Corner chamfer angle	90 degrees
Coating	Diamond
Tool material	Solid carbide
Standard	Manufacturer's standard
Cutting width a_e for milling operation	0.5×D for side milling
Cutting width a_e for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Colour ring	black
Type of product	End / face mill

User data

	Suitability	V_c	ISO code
PVDF GF20	suitable	200 m/min	N
POM GF25	suitable	190 m/min	N
PA 66 GF30	suitable	170 m/min	N
PEEK GF30	suitable	150 m/min	N
PTFE CF25	suitable	180 m/min	N
PEEK CF30	suitable	160 m/min	N
Hybrids	suitable		
Honeycomb sandwich	suitable	350 m/min	N
GRP	suitable	190 m/min	N

GRP, CRP	suitable	190 m/min	N
Graphite	suitable	340 m/min	N
wet minimum	suitable		
dry	suitable		
Air	suitable		