

Garant

Solid carbide copy slot drill, Diamond, Ø DC × L1: 2X40mm



Order data

Order number	209791 2X40
GTIN	4045197920287
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:

- **Corner radius: Radius contour 0 / -0.005 mm.**
- **Neck Ø: $D_1 = 0 / -0.01$ mm.**

Note:

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

copying: $a_p = 0.15 \times D \times a_{p, \text{korr}}$

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

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

Technical description

Overhang length L_1 incl. recess	40 mm
Recess Ø D_1	1.94 mm
Cutting edge Ø D_c	2 mm
Feed f_z for copy milling in graphite	0.025 mm
Overall length L	80 mm
No. of teeth Z	2

Shank $\varnothing D_s$	4 mm
Flute length L_c	1.6 mm
Corner radius R_1	1 mm
Helix angle	30 degrees
Correction factor $a_{p\text{corr}}$	0.04
Coating	Diamond
Tool material	Solid carbide
Standard	Manufacturer's standard
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	black
Type of product	Ball-nosed slot drill

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