

**Garant**
**Solid carbide copy slot drill, Diamond, Ø DC × L1: 0,8X20mm**

**Order data**

Order number	209791 0,8X20
GTIN	4045197919984
Item class	11Y

**Description**
**Version:**

With **crystalline diamond sp<sup>3</sup> 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**

Flute length $L_c$	0.64 mm
Recess Ø $D_1$	0.77 mm
Overhang length $L_1$ incl. recess	20 mm
No. of teeth $Z$	2
Feed $f_z$ for copy milling in graphite	0.012 mm
Cutting edge Ø $D_c$	0.8 mm

Overall length L	60 mm
Shank $\varnothing D_s$	4 mm
Corner radius $R_1$	0.4 mm
Helix angle	25 degrees
Correction factor $a_{p\text{corr}}$	0.08
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