

**Garant**
**Solid carbide slot drill, Diamond, Ø h10 DC: 12mm**

**Order data**

Order number	209711 12
GTIN	4045197512215
Item class	11Y

**Description**
**Version:**

With the latest generation of **crystalline diamond coating sp<sup>3</sup>**, for process reliability in machining **fibre-reinforced composites, CRP, GRP, and graphite.**

**Dynamic cutter geometry.**

**Relief ground with 2 hollow-ground chamfers.**

**High-precision and stable** version due to the 15° helix angle.

**Technical description**

Cutting edge Ø D <sub>c</sub>	12 mm
Feed f <sub>z</sub> for slot milling in graphite	0.06 mm
Corner chamfer width at 45°	0.2 mm
No. of teeth Z	2
Feed f <sub>z</sub> for slot milling in GRP CRP	0.06 mm
Shank Ø D <sub>s</sub>	12 mm
Overall length L	83 mm
Flute length L <sub>c</sub>	26 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HA with h6
Tolerance nominal Ø	h10
Helix angle	15 degrees

Corner chamfer angle	45 degrees
Coating	Diamond
Tool material	Solid carbide
Standard	Manufacturer's standard
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
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		

## Services

Shank grinding Type HB	129100 HB
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