

## Garant

### Solid carbide special drill DIN 6535 HA, uncoated, Ø DC ±0.003: 2,99mm



#### Order data

Order number	121201 2,99
GTIN	4045197715548
Item class	11E

#### Description

##### Version:

**Spiral flute** precision drill for plastics. **Self-centring** with **1-cutter geometry**, achieves **very high alignment accuracy**. **Polished** helical flutes for **optimum chip evacuation**.

**Maintains** the **tolerance band IT7** from entry Ø through to exit Ø, **due to special point geometry**.

##### Note:

Flute length  $L_c = L_2 + 1.5 \times D_c$ .

HB and HE shanks are available at the same price as HA.

For **HB shanks**: use order **No. 121201 + 129100HB**.

For **HE shanks**: use order **No. 121201 + 129100HE**.

#### Technical description

Nominal Ø D <sub>c</sub>	2.99 mm
Shank tolerance	h6
Flute length L <sub>c</sub>	28 mm
Number of cutting edges Z	1
Tolerance nominal Ø	±0.003
Shank Ø D <sub>s</sub>	4 mm
Overall length L	66 mm
Feed f in PEEK	0.1 mm/rev.
Standard	Manufacturer's standard
recommended maximum drilling depth L <sub>2</sub>	23.6 mm

Coating	uncoated
Tool material	Solid carbide
Version	5×D
Point angle	120 degrees
Shank	DIN 6535 HA to h6
Through-coolant	no
Semi-Standard	yes
Colour ring	without
Type of product	Jobber drill

### User data

	Suitability	V <sub>c</sub>	ISO code
PMMA acrylic	suitable	30 m/min	N
PE-HD	suitable	50 m/min	N
PA 66	suitable	50 m/min	N
PEEK	suitable	50 m/min	N
PF 31	suitable	50 m/min	N
PVDF GF20	suitable only under restricted conditions	60 m/min	N
POM GF25	suitable only under restricted conditions	60 m/min	N
PA 66 GF30	suitable only under restricted conditions	60 m/min	N
PEEK GF30	suitable only under restricted conditions	50 m/min	N
PTFE CF25	suitable only under restricted conditions	40 m/min	N
PEEK CF30	suitable only under restricted conditions	40 m/min	N
wet maximum	suitable only under restricted conditions		

dry	suitable
Air	suitable