

**Garant**
**Solid carbide special drill DIN 6535 HA, uncoated, Ø DC ±0.003: 11,97mm**

**Order data**

Order number	121201 11,97
GTIN	4045197857859
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 $D_c$	11.97 mm
Tolerance nominal Ø	±0.003
Overall length L	118 mm
Standard	Manufacturer's standard
Shank Ø $D_s$	12 mm
recommended maximum drilling depth $L_2$	53.1 mm
Feed f in PEEK	0.25 mm/rev.
Number of cutting edges Z	1
Flute length $L_c$	71 mm
Coating	uncoated

Tool material	Solid carbide
Version	5xD
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  
**Services** suitable

Shank grinding Type HE 129100 HE

Shank grinding Type HB 129100 HB