

**Garant**
**Micro drill HSS-E-PM N, uncoated, Ø DC -0.004: 1,80 mm**

**Order data**

Order number	112300 1,80
GTIN	4045197647535
Item class	11A

**Description**
**Version:**

Special drill with reinforced shank, high concentricity and precision ground point.

Through-coolant: no

Standard: DIN 1899 A

Tolerance nominal Ø: 0 / -0.004

Point angle: 118 degrees

Number of cutting edges Z: 2

recommended maximum drilling depth L<sub>2</sub>: 9.1 mm

Flute length L<sub>c</sub>: 11.8 mm

Overall length L: 30 mm

Shank Ø D<sub>s</sub>: 2 mm

Feed f in steel < 900 N/mm<sup>2</sup>: 0.052 mm/rev.

**Technical description**

Flute length L <sub>c</sub>	11.8 mm
Nominal Ø D <sub>c</sub>	1.8 mm
Shank tolerance	h8
Feed f in steel < 900 N/mm <sup>2</sup>	0.052 mm/rev.
Number of cutting edges Z	2
Tolerance nominal Ø	0 / -0.004
Shank Ø D <sub>s</sub>	2 mm
Overall length L	30 mm
Standard	DIN 1899 A

recommended maximum drilling depth L <sub>2</sub>	9.1 mm
Point angle	118 degrees
Coating	uncoated
Tool material	HSS E PM
Type	N
Shank	Parallel shank to h7
Through-coolant	no
Colour ring	without
Type of product	Jobber drill