

**Garant**
**Solid carbide HPC micro-drill, TiAlN, Ø DC +0.004: 1,99 mm**

**Order data**

Order number	121220 1,99
GTIN	4045197353276
Item class	11E

**Description**
**Version:**

High performance miniature drill **with extra long flutes.**

Shank Ø 3 h6 for shrink-fit chucks.

High concentricity, precision ground for **HPC applications in steel.**

**Recommendation:**

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

**Note:**

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

Standard: Manufacturer's standard

Tolerance nominal Ø: 0 / 0.004

Number of cutting edges Z: 2

Tolerance nominal Ø: 0 / 0.004

recommended maximum drilling depth  $L_2$ : 9.1 mm

Overall length L: 38 mm

Shank Ø  $D_s$ : 3 mm

Feed f in steel < 1100 N/mm<sup>2</sup>: 0.05 mm/rev.

**Technical description**

Feed f in steel < 1100 N/mm <sup>2</sup>	0.05 mm/rev.
Flute length $L_c$	12 mm
Nominal Ø $D_c$	1.99 mm
Shank tolerance	h6
Number of cutting edges Z	2
Tolerance nominal Ø	0 / 0.004

Shank $\varnothing D_s$	3 mm
Overall length L	38 mm
Standard	Manufacturer's standard
recommended maximum drilling depth $L_2$	9.1 mm
Coating	TiAlN
Tool material	Solid carbide
Type	N
Point angle	130 degrees
Shank	Parallel shank to h6
Through-coolant	no
Machining strategy	HPC
Semi-Standard	yes
Colour ring	without
Type of product	Jobber drill