

## Garant

### Solid carbide HPC deep-hole drill plain shank DIN 6535 HA 20×D, DLC, Ø DC h7: 4,5 mm



## Order data

Order number	123590 4,5
GTIN	4045197353986
Item class	11E

## Description

### Version:

Spiral fluted, with **6 guide chamfers** and internal cooling channels. New generation of high performance deep hole drills in the HPC range. **With 135° point angle** and special **h7 cutting edge tolerance** for optimum generation of a deep hole. **High roundness and alignment accuracy of the deep hole.**

### Recommendation:

#### Maximum drilling depth:

Flute length (see table) less 1.5×nominal Ø.

#### Note:

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

For process reliability when using the 16×D deep hole drill, an initial centre drilling with No. 121068 – 121130 or 4×D pilot drilling operation with pilot drill No. 122606 is necessary. For deep holes greater than 20×D, a 6×D pilot hole with pilot drill No. 122606 is absolutely essential.

**The generation of a pilot hole improves process reliability.** See also pages 129/130.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7

Number of cutting edges Z: 2

Tolerance nominal Ø: h7

recommended maximum drilling depth  $L_2$ : 103.3 mm

Overall length L: 160 mm

Shank Ø  $D_s$ : 6 mm

Feed f in aluminium short-chipping: 0.22 mm/rev.

## Technical description

Number of cutting edges Z	2
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Flute length $L_c$	110 mm
Nominal $\varnothing D_c$	4.5 mm
Feed $f$ in aluminium short-chipping	0.22 mm/rev.
Tolerance nominal $\varnothing$	h7
Shank $\varnothing D_s$	6 mm
Overall length $L$	160 mm
Standard	Manufacturer's standard
recommended maximum drilling depth $L_2$	103.3 mm
Coating	DLC
Tool material	Solid carbide
Drill depth up to	20×D
Point angle	135 degrees
Shank	DIN 6535 HA to h6
Through-coolant	yes, with 40 bar
Machining strategy	HPC
Pilot drill required	yes, pilot drill
Colour ring	yellow
Type of product	Jobber drill