

**Garant**
**Solid carbide HPC deep hole drill plain shank DIN 6535 HA 25×D, DLC, Ø DC h7: 4,2mm**

**Order data**

Order number	123593 4,2
GTIN	4045197453587
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.**

**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 – 121121 or 4×D pilot drilling operation with pilot drill No. 122606 is necessary. For deep holes greater than 20×D, a pilot hole to the maximum drilling depth with pilot drill No. 122606 is absolutely essential.

**The generation of a pilot hole improves process reliability.** See also pages 140/141.

**Technical description**

Flute length $L_c$	120 mm
Feed $f$ in aluminium short-chipping	0.22 mm/rev.
Number of cutting edges $Z$	2
Nominal $\varnothing D_c$	4.2 mm
Tolerance nominal $\varnothing$	h7
Shank $\varnothing D_s$	6 mm
Overall length $L$	160 mm
Standard	Manufacturer's standard

recommended maximum drilling depth L <sub>2</sub>	113.7 mm
Coating	DLC
Tool material	Solid carbide
Version	25×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

## User data

	Suitability	V <sub>c</sub>	ISO code
Aluminium	suitable	130 m/min	N
Aluminium (short chipping)	suitable	160 m/min	N
Alu > 10% Si	suitable	120 m/min	N
PMMA acrylic	suitable	120 m/min	N
PEEK	suitable	95 m/min	N
PVDF GF20	suitable	70 m/min	N
PA 66 GF30	suitable	65 m/min	N
PEEK GF30	suitable	55 m/min	N
PTFE CF25	suitable	65 m/min	N
Cu	suitable	75 m/min	N
CuZn	suitable	90 m/min	N
GRP	suitable	65 m/min	N
CRP	suitable	65 m/min	N
wet maximum	suitable		

wet minimum

suitable