

## Garant

### Solid carbide HPC drill Weldon shank DIN 6535 HB, TiAlN, Ø DC h7: 4,5mm



## Order data

Order number	123302 4,5
GTIN	4045197459138
Item class	11E

## Description

### Version:

Cutting chisel edge with **high centring accuracy** due to **strong core and special point geometry**.

Particularly high alignment accuracy due to **4 guide chamfers** which stabilise the drill even at extreme depths!

**Convex cutting edges** with honed edges and special flute profile for **short chips**, even on long chipping materials.

### Advantage:

**High process reliability and surface quality of the hole.**

### Note:

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

For process reliability when using the 12xD deep-hole drill, an initial centre drilling with No. 121068 – 121130 or 3xD pilot drilling operation with No. 122736 is necessary.

**NEW GENERATION AVAILABLE!**

**Recommended successor products are No. 123226 and 123236.**

## Technical description

Feed f in steel < 1100 N/mm <sup>2</sup>	0.1 mm/rev.
Number of cutting edges Z	2
Nominal Ø D <sub>c</sub>	4.5 mm
Flute length L <sub>c</sub>	64 mm
Shank tolerance	h6
Tolerance nominal Ø	h7
Shank Ø D <sub>s</sub>	6 mm

Overall length L	102 mm
Standard	Manufacturer's standard
recommended maximum drilling depth L <sub>2</sub>	57.3 mm
Coating	TiAlN
Tool material	Solid carbide
Version	12xD
Point angle	135 degrees
Shank	DIN 6535 HB to h6
Through-coolant	yes, with 25 bar
Machining strategy	HPC
Pilot drill required	yes, pilot drill
Semi-Standard	yes
Colour ring	green
Type of product	Jobber drill

## User data

	Suitability	V <sub>c</sub>	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	180 m/min	N
Alu > 10% Si	suitable only under restricted conditions	140 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable only under restricted conditions	110 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	90 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	80 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	50 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	35 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	40 m/min	M

INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	35 m/min	M
GG(G)	suitable	70 m/min	K
Uni	suitable		
wet maximum	suitable		