

# Solid carbide HPC deep hole drill plain shank DIN 6535 HA 20×D, TiAlN, $\varnothing$ DC h7: 2,2mm

Order of	data
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Order number	123690 2,2		
GTIN	4045197320179		
Item class	11E		

### **Description**

#### **Version:**

Spiral fluted, with **4 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  $16\times D$  deep hole drill, an initial centre drilling with No. 121068 - 121121 or  $4\times D$  pilot drilling operation with pilot drill No. 122736 is necessary. For deep holes greater than  $20\times D$ , a pilot hole to the maximum drilling depth with pilot drill No. 122736 is absolutely essential. **The generation of a pilot hole improves process reliability.** See also pages 140/141.

## **Technical description**

Nominal Ø D <sub>c</sub>	2.2 mm		
Number of cutting edges Z	2		
Feed f in steel < 900 N/mm <sup>2</sup>	0.06 mm/rev.		
Flute length L <sub>c</sub>	50 mm		
Tolerance nominal Ø	h7		
Shank Ø D <sub>s</sub>	4 mm		
Overall length L	92 mm		



Standard	Manufacturer's standard		
recommended maximum drilling depth L <sub>2</sub>	46.7 mm		
Coating	TiAIN		
Tool material	Solid carbide		
Version	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	green		
Type of product	Jobber drill		

## **User data**

	Suitability	<b>V</b> <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	105 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	90 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	90 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	90 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	70 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable	50 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable only under restricted conditions	45 m/min	М
GG(G)	suitable	95 m/min	K
Uni	suitable		
wet maximum	suitable		