

Solid carbide HPC deep hole drill plain shank DIN 6535 HA 20×D, TiAlN, \varnothing DC h7: 4,2mm

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Order number	123690 4,2	
GTIN	4045197320261	
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

Number of cutting edges Z	2	
Flute length L _c	110 mm	
Nominal Ø D _c	4.2 mm	
Feed f in steel < 900 N/mm ²	0.1 mm/rev.	
Tolerance nominal Ø	h7	
Shank Ø D _s	6 mm	
Overall length L	160 mm	

Standard	Manufacturer's standard	
recommended maximum drilling depth L_2	103.7 mm	
Coating	TiAlN	
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	\mathbf{V}_{c}	ISO code
Steel < 500 N/mm ²	suitable	105 m/min	Р
Steel < 750 N/mm ²	suitable	90 m/min	Р
Steel < 900 N/mm ²	suitable	90 m/min	Р
Steel < 1100 N/mm ²	suitable	90 m/min	Р
Steel < 1400 N/mm ²	suitable	70 m/min	Р
INOX < 900 N/mm ²	suitable	50 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	45 m/min	М
GG(G)	suitable	95 m/min	K
Uni	suitable		
wet maximum	suitable		