

## Solid carbide HPC drill plain shank DIN 6535 HA, TiAIN, Ø DC h7: 13mm



### **Order data**

Order number	123301 13
GTIN	4045197452580
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 12×D drill, an initial centre drilling with NC spotting drills No. 121068 – 121130 is necessary.

Form HB and HE are supplied at the same price as HA.

Form HB: order with No. 123302.

Form **HE**: order with **No. 123301 + 129100HE**.

**NEW GENERATION AVAILABLE!** 

Recommended successor products are No. 123225 and 123235.

## **Technical description**

Shank tolerance	h6	
Feed f in steel < 1100 N/mm <sup>2</sup>	0.26 mm/rev.	
Flute length L <sub>c</sub>	182 mm	
Nominal Ø D <sub>c</sub>	13 mm	
Number of cutting edges Z	2	

Tolerance nominal Ø	h7		
Shank Ø D <sub>s</sub>	14 mm		
Overall length L	230 mm		
Standard	Manufacturer's standard		
recommended maximum drilling depth L <sub>2</sub>	162.5 mm		
Coating	TiAIN		
Tool material	Solid carbide		
Version	12×D		
Point angle	135 degrees		
Shank	DIN 6535 HA to h6		
Through-coolant	yes, with 25 bar		
Machining strategy	HPC		
Semi-Standard	yes		
Colour ring	green		
Type of product	Jobber drill		

# **User data**

	Suitability	$\mathbf{V}_{c}$	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	Р
Steel < 750 N/mm <sup>2</sup>	suitable	90 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	80 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	50 m/min	Р
Steel < 1400 N/mm <sup>2</sup>	suitable	35 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	40 m/min	М

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

Shank grinding Type HE

129100 HE