

**Garant**
**Diabolo solid carbide HPC drill, plain shank DIN 6535 HA, TiAlN, Ø DC h7:  
4,5mm**

**Order data**

Order number	122641 4,5
GTIN	4045197969439
Item class	11E

**Description**
**Version:**

Cutting chisel edge with **high centring accuracy** due to **strong core and special point geometry**. **Convex major cutting edges** with **defined honed edge** ensure the drill has high stability and maximum load capacity.

**Special multi-nano layer coating** for drilling in hardened steels.

**Note:**

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

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

Form **HB**: order with **No. 122642 / 122652**.

Form **HE**: order with **No. 122641 / 122651 + 129100HE**.

**Technical description**

Tolerance nominal Ø	h7
recommended maximum drilling depth $L_2$	29.3 mm
Nominal Ø $D_c$	4.5 mm
Flute length $L_c$	36 mm
Feed $f$ in steel < 60 HRC	0.07 mm/rev.
Shank Ø $D_s$	6 mm
Standard	DIN 6537
Number of cutting edges $Z$	2
Overall length $L$	74 mm

Series	Diabolo
Coating	TiAlN
Tool material	Solid carbide
Version	6×D
Type	H
Point angle	140 degrees
Shank	DIN 6535 HA to h6
Through-coolant	no
Machining strategy	HPC
Semi-Standard	yes
Colour ring	red
Type of product	Jobber drill

## User data

	Suitability	V <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable only under restricted conditions	90 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable only under restricted conditions	80 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	70 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	65 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	55 m/min	P
Steel < 55 HRC	suitable	28 m/min	H
Steel < 60 HRC	suitable	16 m/min	H
Steel < 65 HRC	suitable	14 m/min	H
Steel < 67 HRC	suitable	10 m/min	H
GG(G)	suitable	70 m/min	K
wet maximum	suitable		
dry	suitable		

## Services

Shank grinding Type HE

129100 HE