

**Garant****Diabolo solid carbide HPC drill, plain shank DIN 6535 HA, TiAlN, Ø DC h7: 5,3mm****Order data**

Order number	122651 5,3
GTIN	4045197970183
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**.

When drilling in hardened steels from 56 HRC, only cool using air!

**Technical description**

Tolerance nominal Ø	h7
Nominal Ø $D_c$	5.3 mm
recommended maximum drilling depth $L_2$	36.1 mm
Number of cutting edges Z	2
Shank Ø $D_s$	6 mm
Standard	DIN 6537
Flute length $L_c$	44 mm
Overall length L	82 mm

Feed f in steel < 60 HRC	0.055 mm/rev.
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	yes, with 25 bar
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	120 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	100 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	85 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	70 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
Uni	suitable		
wet maximum	suitable		

wet minimum	suitable
Air	suitable
<b>Services</b>	
Shank grinding Type HE	129100 HE