

Garant
Diabolo solid carbide HPC drill, Weldon shank DIN 6535 HB, TiAlN, Ø DC h7: 1/2mm

Order data

Order number	122372 1/2
GTIN	4062406121631
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 $L_c = L_2 + 1.5 \times D_c$.

Standard: DIN 6537 K

Tolerance nominal Ø: h7

Number of cutting edges Z: 2

Tolerance nominal Ø: h7

recommended maximum drilling depth L_2 : 40.95 mm

Overall length L: 107 mm

Shank Ø D_s : 14 mm

Feed f in steel < 1100 N/mm²: 0.32 mm/rev.

Feed f in steel < 60 HRC: 0.16 mm/rev.

Technical description

Inch nominal Ø corresponds to	12.7 mm
Standard	DIN 6537 K
Flute length L_c	60 mm
Feed f in steel < 60 HRC	0.16 mm/rev.
Shank Ø D_s	14 mm

Overall length L	107 mm
Number of cutting edges Z	2
Tolerance nominal Ø	h7
Feed f in steel < 1100 N/mm ²	0.32 mm/rev.
recommended maximum drilling depth L ₂	40.95 mm
Series	Diabolo
Coating	TiAlN
Tool material	Solid carbide
Version	4xD
Type	H
Point angle	140 °
Shank	DIN 6535 HB 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 _c	ISO code
Steel < 500 N/mm ²	suitable only under restricted conditions	120 m/min	P
Steel < 750 N/mm ²	suitable	100 m/min	P
Steel < 900 N/mm ²	suitable	85 m/min	P
Steel < 1100 N/mm ²	suitable	70 m/min	P
Steel < 1400 N/mm ²	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
TOOLOX 33	suitable	30 m/min	H
TOOLOX 44	suitable	28 m/min	H
HARDOX 500 < 1600 N/ mm ²	suitable	28 m/min	H
GG(G)	suitable	70 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air	suitable		