

Garant
Solid carbide HPC drill Weldon shank DIN 6535 HB, TiAlN, Ø DC p6: 16mm

Order data

Order number	122738 16
GTIN	4045197567871
Item class	11E

Description
Version:

Cutting chisel edge with **high centring accuracy** due to **strong core and special point geometry**. High roundness and alignment accuracy of the deep hole, thanks to **4 guide chamfers**. Outstanding chip evacuation due to **4 internal cooling channels** from Ø 3.8 mm. Up to 3.7 mm Ø with 2 internal cooling channels. With **140° point angle** and special **j6 cutting edge tolerance** for optimum generation of a pilot hole.

Note:

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

For deep-hole drilling deeper than $12 \times D$ a pilot hole is recommended, and for deep-hole drilling from $20 \times D$ to $30 \times D$ it is essential.

The generation of a pilot hole always improves process reliability.

Technical description

Number of cutting edges Z	2
Flute length L_c	83 mm
Nominal Ø D_c	16 mm
Shank tolerance	h6
Feed f in steel < 1100 N/mm ²	0.32 mm/rev.
Tolerance nominal Ø	p6
Shank Ø D_s	16 mm
Overall length L	133 mm
Standard	DIN 6537

recommended maximum drilling depth L_2	59 mm
Coating	TiAlN
Tool material	Solid carbide
Version	6×D
Point angle	140 degrees
Shank	DIN 6535 HB 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	V_c	ISO code
Steel < 500 N/mm ²	suitable	170 m/min	P
Steel < 750 N/mm ²	suitable	130 m/min	P
Steel < 900 N/mm ²	suitable	120 m/min	P
Steel < 1100 N/mm ²	suitable	110 m/min	P
Steel < 1400 N/mm ²	suitable	65 m/min	P
INOX < 900 N/mm ²	suitable	75 m/min	M
INOX > 900 N/mm ²	suitable	70 m/min	M
GG(G)	suitable	95 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air	suitable		