

Garant

Solid carbide HPC deep-hole drill plain shank DIN 6535 HA 25×D, TiAlN, Ø DC h7: 4,5mm



Order data

Order number	123693 4,5
GTIN	4045197320636
Item class	11E

Description

Version:

Spiral fluted, with **4 guide chamfers** and internal cooling channels. New generation of high performance deep hole drills in the HPC range.

With 135° point angle and special **h7 cutting edge tolerance** for optimum generation of a deep hole.

High roundness and alignment accuracy of the deep hole.

Note:

For process reliability when using the 16×D deep hole drill, an initial centre drilling with No. 121068 – 121130 or 4×D pilot drilling operation with pilot drill No. 122736 is necessary. For deep holes greater than 20×D, a pilot hole to the maximum drilling depth with pilot drill No. 122736 is absolutely essential. **The generation of a pilot hole improves process reliability.** See also pages 129/130.

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

Standard: Manufacturer's standard

Tolerance nominal Ø: h7

Number of cutting edges Z: 2

recommended maximum drilling depth L_2 : 128.3 mm

Tolerance nominal Ø: h7

Overall length L: 180 mm

Shank Ø D_s : 6 mm

Feed f in steel < 900 N/mm²: 0.1 mm/rev.

Technical description

Nominal Ø D_c	4.5 mm
Number of cutting edges Z	2

Flute length L_c	135 mm
Feed f in steel $< 900 \text{ N/mm}^2$	0.1 mm/rev.
Tolerance nominal \varnothing	h7
Shank $\varnothing D_s$	6 mm
Overall length L	180 mm
Standard	Manufacturer's standard
recommended maximum drilling depth L_2	128.3 mm
Coating	TiAlN
Tool material	Solid carbide
Version	25xD
Point angle	135 °
Shank	DIN 6535 HA to h6
Through-coolant	yes, with 40 bar
Machining strategy	HPC
Pilot drill required	yes, pilot drill
Colour ring	green
Type of product	Jobber drill

User data

	Suitability	V_c	ISO code
Steel $< 500 \text{ N/mm}^2$	suitable	95 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	80 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	80 m/min	P
Steel $< 1100 \text{ N/mm}^2$	suitable	80 m/min	P
Steel $< 1400 \text{ N/mm}^2$	suitable	65 m/min	P
INOX $< 900 \text{ N/mm}^2$	suitable	50 m/min	M
INOX $> 900 \text{ N/mm}^2$	suitable only under restricted conditions	45 m/min	M
GG(G)	suitable	85 m/min	K

Uni	suitable
wet maximum	suitable