

Garant

Solid carbide HPC deep-hole drill plain shank DIN 6535 HA 16×D, TiAlN, Ø DC h7: 12 mm



Order data

Order number	123688 12
GTIN	4045197355485
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.

Recommendation:

Maximum drilling depth:

Flute length (see table) less 1.5×nominal Ø.

Note:

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

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 6×D pilot hole with pilot drill No. 122736 is absolutely essential. **The generation of a pilot hole improves process reliability.** See also pages 129/130.

Standard: Manufacturer's standard

Tolerance nominal Ø: h7

Number of cutting edges Z: 2

Tolerance nominal Ø: h7

recommended maximum drilling depth L_2 : 197 mm

Overall length L: 265 mm

Shank Ø D_s : 12 mm

Feed f in steel < 900 N/mm²: 0.18 mm/rev.

Technical description

Nominal Ø D_c	12 mm
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Flute length L_c	215 mm
Feed f in steel $< 900 \text{ N/mm}^2$	0.18 mm/rev.
Number of cutting edges Z	2
Tolerance nominal \varnothing	h7
Shank $\varnothing D_s$	12 mm
Overall length L	265 mm
Standard	Manufacturer's standard
recommended maximum drilling depth L_2	197 mm
Coating	TiAlN
Tool material	Solid carbide
Drill depth up to	16xD
Point angle	135 degrees
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