## Garant

Solid carbide drill plain shank DIN 6535 HA 180°, TiAlN, Ø DC m7: 16 mm



## Order data

Order number	122506 16
GTIN	4045197744531
Item class	11E

## Description

#### Version:

Special point geometry for generating **180° flat-bottomed holes.** Low radial forces even when spot drilling on faces with up to 45° slope. Flute geometry for optimum chip evacuation. With 4 guide chamfers to stabilise the drill in the hole.

#### Advantage:

The 180° point angle permits drilling and counterboring in a single operation.

#### **Recommendation:**

When using the solid carbide 180° drill it is absolutely essential for process reliability:

- $\cdot\,$  when spot drilling on flat surfaces to drill a pilot hole 1×D using pilot drill No. 122736.
- when spot drilling on sloping surfaces up to 15°: reduce the feed rate f to 50%, up to 30°: reduce the feed rate f to 40% and up to 45°: reduce the feed rate f to 25% of the stated value. After spot drilling, the normal feed rate value can be used.

#### 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. 122506 + 129100HB**.

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Form HE: order with No. 122506 + 129100HE.
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180° solid carbide drills for machining aluminium available on request.

Not suitable for generating counterbores for socket-head screws to DIN974-1.

Standard: Manufacturer's standard

Tolerance nominal Ø: m7

Number of cutting edges Z: 2

Semi-Standard: yes

Tolerance nominal Ø: m7

recommended maximum drilling depth L<sub>2</sub>: 39 mm

Overall length L: 113 mm

Shank Ø D₅: 16 mm

Feed f in steel  $< 900 \text{ N/mm}^2$ : 0.16 mm/rev.

# **Technical description**

Number of cutting edges Z	2
Shank tolerance	h6
Standard	Manufacturer's standard
Tolerance nominal Ø	m7
Shank Ø D <sub>s</sub>	16 mm
Overall length L	113 mm
Nominal Ø D <sub>c</sub>	16 mm
Feed f in steel < 900 N/mm <sup>2</sup>	0.16 mm/rev.
Flute length L <sub>c</sub>	63 mm
recommended maximum drilling depth $L_2$	39 mm
Semi-Standard	yes
Coating	TiAIN
Tool material	Solid carbide
Drill depth up to	3×D
Point angle	180 degrees
Shank	DIN 6535 HA to h6
Use for drilling	limited convexity
Use for drilling	limited cross-drilling
Use for drilling	limited oblique spot drilling
Through-coolant	yes, with 25 bar
Pilot drill required	yes, pilot drill
Colour ring	green
Type of product	Jobber drill

## Services

Shank grinding Type HB	129100 HB
Shank grinding Type HE	129100 HE

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