

**Garant****Solid carbide drill plain shank DIN 6535 HA 180°, TiAlN, Ø DC m7: 16,01-Xmm**

## Order data

Order number	122506 16,01-X
GTIN	4062406200855
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:

- **when spot drilling on flat surfaces to drill a pilot hole 1xD 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**.

Form **HE**: order with **No. 122506 + 129100HE**.

180° solid carbide drills for machining aluminium available on request.

**Not** suitable for generating counterbores for socket-head screws to DIN974-1. Delivery time: 8 weeks

Minimum order quantity: 3 pcs.

Items made to order for a specific customer: Cancellation only up to a maximum of 3 working days after receipt of order acknowledgement. Items cannot be returned. We reserve the right to over-deliver or under-deliver by +/-10% (minimum 1 piece).

## Technical description

## Data sheet

Overall length L	121 mm
Tolerance nominal Ø	h7
Standard	Manufacturer's standard
Number of cutting edges Z	2
Flute length L <sub>c</sub>	71 mm
Shank Ø D <sub>s</sub>	18 mm
Ø range	16.01 - 18 mm
Coating	TiAlN
Tool material	Solid carbide
Version	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
Semi-Standard	yes
Colour ring	green
Type of product	Jobber drill

## User data

	Suitability	V <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	85 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	75 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	60 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	50 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	45 m/min	M

Data sheet

GG(G)	suitable	90 m/min	K
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		
Air	suitable		