# Garant

Solid carbide drill plain shank DIN 6535 HA 180°, TiAIN, Ø DC m7: 14,01-Xmm



## Order data

Order number	122506 14,01-X
GTIN	4062406200848
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**.

#### 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 or under deliver by +/-10% (min. 1 pc).

## **Technical description**

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# Data sheet

hank Ø DsImage: Second Sec	16 mm		
lumber of cutting edges Z tandard lute length L <sub>c</sub> 7 range oating			
tandard lute length L <sub>c</sub> Ø range oating	113 mm		
lute length L <sub>c</sub>	2		
oating	Manufacturer's standard		
oating	63 mm		
-	14.01 - 16 mm		
ool material	TiAIN		
	Solid carbide		
ersion	3×D		
oint angle	180 degrees		
hank	DIN 6535 HA to h6		
se for drilling	limited convexity		
se for drilling	limited cross-drilling		
se for drilling	limited oblique spot drilling		
hrough-coolant	yes, with 25 bar		
ilot drill required	yes, pilot drill		
emi-Standard	yes		
olour ring	green		
ype of product	green		

# User data

	Suitability	Vc	ISO code
Steel < 500 N/mm²	suitable	85 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	75 m/min	Р
Steel < 900 N/mm <sup>2</sup>	suitable	60 m/min	Р
Steel < 1100 N/mm <sup>2</sup>	suitable	50 m/min	Р
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	45 m/min	М

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