## Garant

Solid carbide drill plain shank DIN 6535 HA 180°, TiAIN, Ø DC m7: 10,4mm



## Order data

Order number	122506 10,4
GTIN	4062406090050
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.

## **Technical description**

recommended maximum drilling depth $L_2$	37.4 mm
Feed f in steel < 900 N/mm <sup>2</sup>	0.15 mm/rev.
Overall length L	100 mm
Nominal Ø D <sub>c</sub>	10.4 mm

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Tolerance nominal Ø	m7	
Standard	Manufacturer's standard	
Shank tolerance	h6	
Flute length $L_c$	53 mm	
Number of cutting edges Z	2	
Shank Ø D <sub>s</sub>	12 mm	
Coating	TiAIN	
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	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

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Uni	suitable	
wet maximum	suitable	
wet minimum	suitable	
Air Services	suitable	

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