Garant

Solid carbide drill plain shank DIN 6535 HA 180°, TiAIN, Ø DC m7: 4,1mm



Order data

Order number	122506 4,1
GTIN	4045197743879
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

6 mm		
0.08 mm/rev.		
Manufacturer's standard		
2		

Shank tolerance	h6
Nominal Ø D _c	4.1 mm
Overall length L	66 mm
Flute length L _c	24 mm
Tolerance nominal Ø	m7
recommended maximum drilling depth L_2	17.9 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 _c	ISO code
Steel < 500 N/mm ²	suitable	85 m/min	Р
Steel < 750 N/mm ²	suitable	75 m/min	Р
Steel < 900 N/mm ²	suitable	60 m/min	Р
Steel < 1100 N/mm²	suitable	50 m/min	Р
INOX < 900 N/mm ²	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