Garant

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



Order data

Order number	122793 4,1
GTIN	4045197744708
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 15° 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.
- \cdot when spot drilling on sloping surfaces up to max. 15° : 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. 122793 + 129100HB. Form HE: order with No. 122793 + 129100HE. 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 \emptyset : m7 Number of cutting edges Z: 2 Tolerance nominal \emptyset : m7 recommended maximum drilling depth L₂: 29.9 mm Overall length L: 74 mm Shank \emptyset D₃: 6 mm Feed f in steel < 900 N/mm²: 0.08 mm/rev.

Technical description

Shank Ø D _s	6 mm
Shank tolerance	h6
Tolerance nominal Ø	m7
Nominal Ø D _c	4.1 mm
Flute length L _c	36 mm
Overall length L	74 mm
Standard	Manufacturer's standard
Feed f in steel < 900 N/mm ²	0.08 mm/rev.
Number of cutting edges Z	2
recommended maximum drilling depth L_2	29.9 mm
Coating	TiAIN
Tool material	Solid carbide
Drill depth up to	5×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

Services

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