

Garant**Solid carbide drill plain shank DIN 6535 HA 180°, TiAlN, Ø DC m7: 11,4mm****Order data**

Order number	122506 11,4
GTIN	4062406090128
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.

Technical description

Shank tolerance	h6
recommended maximum drilling depth L_2	35.9 mm
Nominal Ø D_c	11.4 mm
Flute length L_c	53 mm

Data sheet

Standard	Manufacturer's standard
Feed f in steel $< 900 \text{ N/mm}^2$	0.15 mm/rev.
Tolerance nominal $\varnothing$	m7
Overall length L	100 mm
Number of cutting edges Z	2
Shank $\varnothing D_s$	12 mm
Coating	TiAlN
Tool material	Solid carbide
Version	3xD
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 $< 500 \text{ N/mm}^2$	suitable	85 m/min	P
Steel $< 750 \text{ N/mm}^2$	suitable	75 m/min	P
Steel $< 900 \text{ N/mm}^2$	suitable	60 m/min	P
Steel $< 1100 \text{ N/mm}^2$	suitable	50 m/min	P
INOX $< 900 \text{ N/mm}^2$	suitable only under restricted conditions	45 m/min	M
GG(G)	suitable	90 m/min	K

Uni	suitable
wet maximum	suitable
wet minimum	suitable
Air	suitable
Suitable products	

<https://www.hoffmann-group.com/GB/en/hom/p/122506-11,4>