

## Garant

### Solid carbide drill plain shank DIN 6535 HA 180°, TiAlN, Ø DC m7: 16,8mm



#### Order data

Order number	122793 16,8
GTIN	4062406092382
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:

- **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 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.

#### Technical description

recommended maximum drilling depth $L_2$	65.8 mm
Standard	Manufacturer's standard
Flute length $L_c$	91 mm
Shank $\varnothing D_s$	18 mm

Tolerance nominal $\varnothing$	m7
Feed f in steel < 900 N/mm <sup>2</sup>	0.2 mm/rev.
Shank tolerance	h6
Overall length L	141 mm
Nominal $\varnothing D_c$	16.8 mm
Number of cutting edges Z	2
Coating	TiAlN
Tool material	Solid carbide
Version	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

## User data

	Suitability	V <sub>c</sub>	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	85 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	75 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	60 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	50 m/min	P
INOX < 900 N/mm <sup>2</sup>	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
<b>Services</b>	

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