

## Garant

**Solid carbide HPC co-pilot drill, plain shank DIN 6535 HA 20xD, TiAlN, Ø DC: 4,8 mm**



### Order data

Order number	123691 4,8
GTIN	4045197569141
Item class	11E

### Description

#### Version:

Helical fluted, with **4 guide chamfers** and internal coolant holes. New generation of high performance co-pilot drills in the HPC range. **With 138° point angle** and special **j6 cutting edge tolerance** for optimum generation of a co-pilot hole. **High roundness and alignment accuracy of the co-pilot hole.**

#### Recommendation:

##### Maximum drilling depth:

Flute length (see table) less 1.5×nominal Ø.

##### Note:

Flute length  $L_c = L_2 + 1.5 \times D_c$ .

To achieve good process reliability with 40xD and 50xD deep-hole drills it is absolutely essential to drill 6xD pilot hole with a No. 122736 and a 20xD co-pilot hole with a No. 123691 co-pilot drill.

**The generation of a pilot hole improves process reliability.** See also pages 129/130.

Standard: Manufacturer's standard

Tolerance nominal Ø: j6

Number of cutting edges Z: 2

Tolerance nominal Ø: j6

recommended maximum drilling depth  $L_2$ : 112.8 mm

Overall length L: 160 mm

Shank Ø  $D_s$ : 6 mm

Feed f in steel < 900 N/mm<sup>2</sup>: 0.08 mm/rev.

### Technical description

Flute length $L_c$	120 mm
Feed f in steel < 900 N/mm <sup>2</sup>	0.08 mm/rev.

Number of cutting edges Z	2
Nominal $\varnothing D_c$	4.8 mm
Tolerance nominal $\varnothing$	j6
Shank $\varnothing D_s$	6 mm
Overall length L	160 mm
Standard	Manufacturer's standard
recommended maximum drilling depth $L_2$	112.8 mm
Coating	TiAlN
Tool material	Solid carbide
Drill depth up to	20xD
Point angle	138 degrees
Shank	DIN 6535 HA to h6
Through-coolant	yes, with 40 bar
Machining strategy	HPC
Pilot drill required	yes, pilot drill
Colour ring	green
Type of product	Jobber drill