

Garant
Solid carbide HPC co-pilot drill, plain shank DIN 6535 HA 20×D, TiAlN, Ø DC: 4,5mm

Order data

Order number	123691 4,5
GTIN	4045197569134
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.**

Note:

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

To achieve good process reliability with 40×D and 50×D deep hole drills, it is absolutely essential to drill a pilot hole to the maximum drilling depth with a pilot drill No. 122736 and a 20×D co-pilot hole with a co-pilot drill No. 123691.

The generation of a pilot hole improves process reliability. See also pages 140/141.

Technical description

Nominal Ø D _c	4.5 mm
Number of cutting edges Z	2
Flute length L _c	110 mm
Feed f in steel < 900 N/mm ²	0.08 mm/rev.
Tolerance nominal Ø	j6
Shank Ø D _s	6 mm
Overall length L	160 mm
Standard	Manufacturer's standard

recommended maximum drilling depth L_2	103.3 mm
Coating	TiAlN
Tool material	Solid carbide
Version	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

User data

	Suitability	V_c	ISO code
Steel < 500 N/mm ²	suitable	105 m/min	P
Steel < 750 N/mm ²	suitable	90 m/min	P
Steel < 900 N/mm ²	suitable	90 m/min	P
Steel < 1100 N/mm ²	suitable	90 m/min	P
Steel < 1400 N/mm ²	suitable	70 m/min	P
INOX < 900 N/mm ²	suitable	50 m/min	M
INOX > 900 N/mm ²	suitable only under restricted conditions	45 m/min	M
GG(G)	suitable	95 m/min	K
Uni	suitable		
wet maximum	suitable		