

Garant
Solid carbide HPC drill plain shank DIN 6535 HA, TiAlN, Ø DC h7: 13,5mm

Order data

Order number	123110 13,5
GTIN	4045197357854
Item class	11E

Description
Version:

Cutting chisel edge with **high centring accuracy** due to **strong core and special point geometry**.

Particularly high alignment accuracy due to **4 guide chamfers** which stabilise the drill even at extreme depths!

Straight major cutting edges with honed edges and special flute profile for **short chips**, even on long chipping materials.

Advantage:

High process reliability and surface quality of the hole.

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. 123115**.

Form **HE**: order with **No. 123110 + 129100 HE**.

Technical description

Feed f in stainless steel < 900 N/mm ²	0.2 mm/rev.
Number of cutting edges Z	2
Nominal Ø D _c	13.5 mm
Shank tolerance	h6
Flute length L _c	160 mm
Tolerance nominal Ø	h7
Shank Ø D _s	14 mm

Overall length L	208 mm
Standard	Manufacturer's standard
recommended maximum drilling depth L ₂	139.8 mm
Coating	TiAlN
Tool material	Solid carbide
Version	10xD
Point angle	135 degrees
Shank	DIN 6535 HA to h6
Through-coolant	yes, with 25 bar
Machining strategy	HPC
Semi-Standard	yes
Colour ring	blue
Type of product	Jobber drill

User data

	Suitability	V _c	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	200 m/min	N
Alu > 10% Si	suitable only under restricted conditions	180 m/min	N
Steel < 500 N/mm ²	suitable	110 m/min	P
Steel < 750 N/mm ²	suitable	80 m/min	P
Steel < 900 N/mm ²	suitable	70 m/min	P
INOX < 900 N/mm ²	suitable	65 m/min	M
INOX > 900 N/mm ²	suitable	55 m/min	M
Ti > 850 N/mm ²	suitable	25 m/min	S
wet maximum	suitable		
wet minimum	suitable		

Services

Shank grinding Type HE

129100 HE