

**Garant**
**Deep hole drill HSS-E, TiAlN, Ø DC h8: 2,3mm**

**Order data**

Order number	116063 2,3
GTIN	4045197871053
Item class	11B

**Description**
**Version:**

Significantly **strengthened core** without taper.

Precision ground point.

With **specially shaped slots**. Designed for deep holes up to 10×D and materials with critical chip formation characteristics.

With **TiAlN coating** for long tool lives.

**Recommendation:**
**Maximum drilling depth:**

$$L_2 = L_c - 1.5 \times D_c.$$

**Note:**

Suitable NC spotting drills No. 112120, 112140 and 112170 with **142° tip angle** for enhanced process reliability

**Technical description**

Feed f in steel < 750 N/mm <sup>2</sup>	0.03 mm/rev.
Flute length L <sub>c</sub>	59 mm
Number of cutting edges Z	2
Overall length L	90 mm
Shank Ø D <sub>s</sub>	2.3 mm
Standard	DIN 340
recommended maximum drilling depth L <sub>2</sub>	55.6 mm
Nominal Ø D <sub>c</sub>	2.3 mm
Tolerance nominal Ø	h8

Point angle	130 degrees
Shank	Plain shank
Coating	TiAlN
Tool material	HSS E
Type	FS
Helix angle	38 degrees
Through-coolant	no
Colour ring	without
Type of product	Jobber drill

### User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable only under restricted conditions	87 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	56 m/min	N
Alu > 10% Si	suitable only under restricted conditions	50 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	31 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	23 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	20 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	12 m/min	P
Ti > 850 N/mm <sup>2</sup>	suitable only under restricted conditions	6 m/min	S
GG(G)	suitable	31 m/min	K
Oil	suitable		
wet maximum	suitable		