

**Garant**
**Stub drill HSS-E, TiAlN, Ø DC h8: 3,1mm**

**Order data**

Order number	113265 3,1
GTIN	4062406234249
Item class	11B

**Description**
**Version:**

**High concentricity** and **special chip flutes** ensure precise bores.

With point geometry shape C from size 2.4 mm.

**Advantage:**

**Ideal for drilling shallow holes (approx. 2 - 4×D)** on NC machines and automatic machines.

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

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

**Technical description**

Standard	DIN 1897
Flute length $L_c$	18 mm
recommended maximum drilling depth $L_2$	13.4 mm
Nominal $\varnothing D_c$	3.1 mm
Number of cutting edges Z	2
Shank $\varnothing D_s$	3.1 mm
Feed f in stainless steel < 900 N/mm <sup>2</sup>	0.02 mm/rev.
Tolerance nominal $\varnothing$	h8
Overall length L	49 mm
Point angle	118 degrees
Shank	Plain shank

Coating	TiAlN
Tool material	HSS E
Through-coolant	no
Colour ring	green
Type of product	Jobber drill

### User data

	Suitability	$V_c$	ISO code
Alu plastics	Suitable only under restricted conditions	75 m/min	N
Aluminium (short chipping)	Suitable only under restricted conditions	65 m/min	N
Alu > 10% Si	Suitable only under restricted conditions	60 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	50 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	40 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	35 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	16 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	17 m/min	M
INOX > 900 N/mm <sup>2</sup>	Suitable only under restricted conditions	13 m/min	M
Ti > 850 N/mm <sup>2</sup>	Suitable only under restricted conditions	8 m/min	S
GG(G)	suitable	40 m/min	K
CuZn	suitable	50 m/min	N
Uni	suitable		
Oil	suitable		
wet maximum	suitable		