

## Garant

**High-precision countersink with unequal spacing and 3 drive flats 90°, AlTiCN, External Ø Dc: 10,4mm**



### Order data

Order number	150393 10,4
GTIN	4062406277178
Item class	11M

### Description

#### Version:

**All countersinks have 3 cutting edges**, radially relieved.

Flutes are ground from solid.

High-precision countersink, produced with tight manufacturing tolerances similar to DIN 335-C.

Special geometry with **unequal spacing** and matching cutting edge preparation.

Newly developed AlTiCN coating especially **for stainless steels**.

Three **drive flats on the shank** for use in a 3-jaw chuck.

#### Application:

High-precision countersinks for chatter-free production of **precise, round 90° countersunk surfaces**.

### Technical description

smallest countersink Ø for holes from	2.5 mm
Number of cutting edges Z	3
Overall length L	50 mm
Shank Ø D <sub>s</sub>	6 mm
Shank tolerance	h9
for countersunk screws DIN 7991	M5
Pre-drill Ø	2.5 mm

Feed f in stainless steel < 900 N/mm <sup>2</sup>	0.1 mm/rev.
External Ø	10.4 mm
Coating	AlTiCN
Countersink tip angle	90 degrees
Tool material	HSS E
Spacing of the countersink cutting edges	unequal spacing
Standard	DIN 335 C
Shank	Shank with h9 and three drive flats
Through-coolant	no
Colour ring	blue
Type of product	Stepped drill and countersink

## User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable only under restricted conditions	53 m/min	N
Aluminium (short chipping)	suitable only under restricted conditions	40 m/min	N
Alu > 10% Si	suitable only under restricted conditions	35 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	55 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	30 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	25 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	15 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	12 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable	18 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	13 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable	13 m/min	S
GG(G)	suitable only under restricted conditions	30 m/min	K

CuZn	suitable only under restricted conditions	42 m/min	N
wet maximum	suitable		
wet minimum	suitable		
dry	suitable only under restricted conditions		