

## Garant

### Precision countersinks with unequal spacing 90°, TiAlN, External Ø Dc: 11,5 mm



#### Order data

Order number	150130 11,5
GTIN	4045197741844
Item class	11M

#### Description

##### Version:

**All countersinks have 3 cutting edges. Special geometry with extremely unequal spacing** and matching cutting edge preparation. Radially relief ground. Flutes ground from solid. Newly developed **special TiAlN coating** for long service life.

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

##### Advantage:

Very smooth cutting throughout the entire countersinking operation. Chatter-free running for perfect results and **optimum tool service life**.

##### Application:

High-precision countersinks for production of exactly round 90° countersunk surfaces.

Through-coolant: no

Number of cutting edges Z: 3

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smallest countersink Ø for holes from: 2.8 mm

Overall length L: 56 mm

Shank Ø D<sub>s</sub>: 8 mm

for countersunk screws ISO 2009, 2010, 7046, 7047: M6

Feed f in steel < 500 N/mm<sup>2</sup>: 0.13 mm/rev.

#### Technical description

for countersunk screws ISO 2009, 2010, 7046, 7047	M6
Shank tolerance	h9

Feed f in steel < 500 N/mm <sup>2</sup>	0.13 mm/rev.
External Ø	11.5 mm
smallest countersink Ø for holes from	2.8 mm
Shank Ø D <sub>s</sub>	8 mm
Overall length L	56 mm
Number of cutting edges Z	3
Coating	TiAlN
Countersink tip angle	90 degrees
Tool material	HSS
Spacing of the countersink cutting edges	unequal spacing
Standard	DIN 335 C
Shank	Plain shank with h9
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink