

## Garant

**High-precision countersink with unequal spacing and 3 drive flats 90°, AlTiCN, External Ø Dc: 19 mm**



### Order data

Order number	150393 19
GTIN	4062406277222
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**.

Through-coolant: no

Number of cutting edges Z: 3

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smallest countersink Ø for holes from: 3.5 mm

Overall length L: 63 mm

Shank Ø D<sub>s</sub>: 10 mm

for countersunk screws ISO 2009, 2010, 7046, 7047: M10

Feed f in stainless steel < 900 N/mm<sup>2</sup>: 0.12 mm/rev.

### Technical description

Pre-drill Ø	3.5 mm
External Ø	19 mm

for countersunk screws ISO 2009, 2010, 7046, 7047	M10
Number of cutting edges Z	3
Shank $\varnothing D_s$	10 mm
Shank tolerance	h9
Feed f in stainless steel < 900 N/mm <sup>2</sup>	0.12 mm/rev.
smallest countersink $\varnothing$ for holes from	3.5 mm
Overall length L	63 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

## Accessories

Countersink set No. 150393 with 3 drive flats, in a case 90° Number of countersinks 7	150394 7
Countersink set No. 150393 with 3 drive flats, in a case 90° Number of countersinks 6	150394 6