



## Countersink 90°, TiN, External Ø Dc: 31 mm



### Order data

Order number	150180 31
GTIN	4045197086013
Item class	12M

### Description

#### Version:

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

Flutes are ground from solid.

Economy version, improved performance due to coating.

#### Application:

High precision countersinks for chatter-free countersinking.

Through-coolant: no

Number of cutting edges Z: 3

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smallest countersink Ø for holes from: 4.2 mm

Overall length L: 71 mm

Shank Ø D<sub>s</sub>: 12 mm

for countersunk screws DIN 7991: M16

Feed f in steel < 500 N/mm<sup>2</sup>: 0.2 mm/rev.

### Technical description

Feed f in steel < 500 N/mm <sup>2</sup>	0.2 mm/rev.
External Ø	31 mm
Shank tolerance	h9
smallest countersink Ø for holes from	4.2 mm
for countersunk screws DIN 7991	M16
Shank Ø D <sub>s</sub>	12 mm

Overall length L	71 mm
Number of cutting edges Z	3
Coating	TiN
Countersink tip angle	90 degrees
Tool material	HSS
Standard	DIN 335 C
Shank	Plain shank with h9
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink