

## Garant

**High-precision countersink, long, with 3 drive flats 90°, TiAlN, External Ø Dc: 31 mm**



### Order data

Order number	150376 31
GTIN	4062406066055
Item class	11M

### Description

#### Version:

**All countersinks have 3 cutting edges**, radially relief ground. Flutes ground from solid. High-precision countersink, produced to tight manufacturing tolerances similar to DIN335-C, **with long plain shank.**

**Special geometry with extremely unequal spacing** and matching cutting edge preparation. Newly developed, **special TiAlN coating** for long tool life.

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

Number of cutting edges Z: 3

smallest countersink Ø for holes from: 4.2 mm

Overall length L: 140 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>: 0.25 mm/rev.

### Technical description

Shank tolerance	h9
Number of cutting edges Z	3
Pre-drill Ø	4.2 mm

smallest countersink $\varnothing$ for holes from	4.2 mm
Overall length L	140 mm
Feed f in steel < 500 N/mm <sup>2</sup>	0.25 mm/rev.
for countersunk screws DIN 7991	M16
Shank $\varnothing D_s$	12 mm
External $\varnothing$	31 mm
Coating	TiAlN
Countersink tip angle	90 degrees
Tool material	HSS
Spacing of the countersink cutting edges	unequal spacing
Standard	Manufacturer's standard
Shank	Three clamping flats to h9
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink