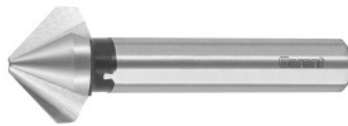


**Garant**
**High-precision countersink 90°, uncoated, External Ø Dc: 31 mm**

**Order data**

Order number	150152 31
GTIN	4045197717078
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.

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

**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.
smallest countersink Ø for holes from	4.2 mm
External Ø	31 mm
for countersunk screws DIN 7991	M16

Shank tolerance	h9
Shank $\varnothing D_s$	12 mm
Overall length L	71 mm
Number of cutting edges Z	3
Coating	uncoated
Countersink tip angle	90 degrees
Tool material	HSS
Standard	DIN 335 C
Shank	Shank with h9 and three drive flats
Through-coolant	no
Colour ring	without
Type of product	Stepped drill and countersink