

**Garant**
**Countersink solid carbide 90°, uncoated, External Ø Dc: 31 mm**

**Order data**

Order number	150386 31
GTIN	4045197086662
Item class	11M

**Description**
**Version:**

Very **sturdy version**, multi-flute, **special geometry** for **very heavy duty use**. For **chatter-free countersinking** and **deburring**. For **difficult to machine materials**. Solid carbide head with brazed shank.

**Suitable even for Hardox 500.**

**Note:**

Ensure stable conditions during operation!

Through-coolant: no

Number of cutting edges Z: 5

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smallest countersink Ø for holes from: 6 mm

Overall length L: 71 mm

Shank Ø D<sub>s</sub>: 12 mm

Feed f in steel < 60 HRC: 0.1 mm/rev.

**Technical description**

Shank tolerance	h9
Feed f in steel < 60 HRC	0.1 mm/rev.
Pre-drill Ø	6 mm
smallest countersink Ø for holes from	6 mm
External Ø	31 mm
Shank Ø D <sub>s</sub>	12 mm

Overall length L	71 mm
Number of cutting edges Z	5
Coating	uncoated
Countersink tip angle	90 degrees
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Shank	Plain shank with h9
Through-coolant	no
Colour ring	red
Type of product	Stepped drill and countersink