

**Garant**
**High-precision countersink, long 90°, TiAlN, External Ø Dc: 12,4 mm**

**Order data**

Order number	150377 12,4
GTIN	4045197868008
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.

**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: 2.8 mm

Overall length L: 108 mm

Shank Ø D<sub>s</sub>: 8 mm

for countersunk screws DIN 7991: M6

Feed f in steel < 500 N/mm<sup>2</sup>: 0.13 mm/rev.

**Technical description**

for countersunk screws DIN 7991	M6
Shank tolerance	h9
Overall length L	108 mm
smallest countersink Ø for holes from	2.8 mm

Number of cutting edges Z	3
Shank $\varnothing D_s$	8 mm
Feed f in steel < 500 N/mm <sup>2</sup>	0.13 mm/rev.
Pre-drill $\varnothing$	2.8 mm
External $\varnothing$	12.4 mm
Coating	TiAlN
Countersink tip angle	90 degrees
Tool material	HSS
Spacing of the countersink cutting edges	unequal spacing
Standard	Manufacturer's standard
Shank	Parallel shank to h9
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink