

**Garant**
**High-precision countersink 90°, uncoated, External Ø Dc: 19 mm**

**Order data**

Order number	150390 19
GTIN	4045197086723
Item class	11M

**Description**
**Version:**

Countersinks radially relief ground. Chip flutes are ground from solid up to size 31. Chip angle varies with the countersink Ø for optimum chip formation. Countersink point and circumference are relief ground and cut easily.

High-precision countersink, produced with tight manufacturing tolerances similar to DIN 335-D.

**Note:**

For countersink bits with shank 6.3 mm (1/4 inch) see Group 67.

For suitable reducing adapters for tools with MT shanks see **No. 343000-343530**.

Through-coolant: no

Number of cutting edges Z: 3

Number of cutting edges Z: 3

smallest countersink Ø for holes from: 3.5 mm

Overall length L: 100 mm

Morse taper MT: 2

for countersunk screws ISO 2009, 2010, 7046, 7047: M10

Feed f in steel < 500 N/mm<sup>2</sup>: 0.14 mm/rev.

**Technical description**

Feed f in steel < 500 N/mm <sup>2</sup>	0.14 mm/rev.
External Ø	19 mm
smallest countersink Ø for holes from	3.5 mm
for countersunk screws ISO 2009, 2010, 7046, 7047	M10
Pre-drill Ø	3.5 mm

Overall length L	100 mm
Morse taper MT	2
Number of cutting edges Z	3
Coating	uncoated
Countersink tip angle	90 degrees
Tool material	HSS
Standard	DIN 335 D
Shank	MT 1-4
Through-coolant	no
Colour ring	without
Type of product	Stepped drill and countersink