

**Garant**
**Countersink, form D 60°, uncoated, Ø DC: 63 mm**

**Order data**

Order number	150860 63
GTIN	4045197087447
Item class	11M

**Description**
**Version:**

The chip flutes are ground from solid up to size 31.5. Countersink point and circumference are relief ground and cut easily. This results in easy and **chatter-free cutting** for deep countersinking, as well as for deburring or countersinking.

**Application:**

For chatter-free countersinking and deburring.

**Especially suitable for chamfering tapped holes and for countersinking in jig and tool making.**

**Note:**

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: 20 mm

Overall length L: 190 mm

Morse taper MT: 4

Feed f in steel < 500 N/mm<sup>2</sup>: 0.35 mm/rev.

**Technical description**

External Ø	63 mm
smallest countersink Ø for holes from	20 mm
Feed f in steel < 500 N/mm <sup>2</sup>	0.35 mm/rev.
Overall length L	190 mm

Morse taper MT	4
Number of cutting edges Z	3
Coating	uncoated
Countersink tip angle	60 degrees
Tool material	HSS
Standard	DIN 334
Shank	MT 1-4
Through-coolant	no
Colour ring	without
Type of product	Stepped drill and countersink