

**Garant**
**Countersink, form D 60°, uncoated, Ø DC: 50mm**

**Order data**

Order number	150860 50
GTIN	4045197087430
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**.

**Technical description**

Feed f in steel < 500 N/mm <sup>2</sup>	0.25 mm/rev.
External Ø	50 mm
smallest countersink Ø for holes from	16 mm
Overall length L	160 mm
Morse taper MT	3
Number of cutting edges Z	3
Coating	uncoated
Countersink tip angle	60 degrees

Tool material	HSS
Standard	DIN 334
Shank	Morse taper
Through-coolant	no
Colour ring	without
Type of product	Stepped drill and countersink

### User data

	Suitability	V <sub>c</sub>	ISO code
Aluminium (short chipping)	suitable	33 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	28 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	27 m/min	P
CuZn	suitable	65 m/min	N
wet maximum	suitable		
dry	suitable only under restricted conditions		