

**Garant**
**Countersink Form C 60°, TiN, External Ø Dc: 20mm**

**Order data**

Order number	150840 20
GTIN	4045197087317
Item class	11M

**Description**
**Version:**

The chip flutes are ground from solid. 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.**

**Technical description**

External Ø	20 mm
smallest countersink Ø for holes from	5 mm
Feed f in steel < 500 N/mm <sup>2</sup>	0.16 mm/rev.
Shank Ø D <sub>s</sub>	10 mm
Overall length L	67 mm
Number of cutting edges Z	3
Coating	TiN
Countersink tip angle	60 degrees
Tool material	HSS

Standard	DIN 334
Shank	Plain shank with h9
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink

### User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable	85 m/min	N
Aluminium (short chipping)	suitable	40 m/min	N
Alu > 10% Si	suitable only under restricted conditions	25 m/min	N
Steel < 500 N/mm <sup>2</sup>	suitable	34 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable only under restricted conditions	32 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	32 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	9 m/min	M
Uni	suitable		
wet maximum	suitable		
dry	suitable only under restricted conditions		