

**Countersink 90°, uncoated, External Ø Dc: 23mm****Order data**

Order number	150175 23
GTIN	4045197085832
Item class	12M

**Description****Version:**

**All countersinks have 3 cutting edges**, radially relieved.

Flutes are ground from solid.

Economy countersink version.

**Application:**

High precision countersinks for chatter-free countersinking.

**Technical description**

for countersunk screws ISO 2009, 2010, 7046, 7047	M12
Feed f in steel < 500 N/mm <sup>2</sup>	0.16 mm/rev.
External Ø	23 mm
smallest countersink Ø for holes from	3.8 mm
Shank tolerance	h9
Shank Ø D <sub>s</sub>	10 mm
Overall length L	67 mm
Number of cutting edges Z	3
Coating	uncoated
Countersink tip angle	90 degrees
Tool material	HSS

Standard	DIN 335 C
Shank	Plain shank with h9
Through-coolant	no
Colour ring	without
Type of product	Stepped drill and countersink

## User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable	70 m/min	N
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 only under restricted conditions	27 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	27 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable only under restricted conditions	8 m/min	P
wet maximum	suitable		
dry	suitable only under restricted conditions		