Garant

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



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 \emptyset 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 suitable reducing adapters for tools with MT shanks see **No. 343000-343530**. For countersink bits with shank 6.3 mm (1/4 inch) see Group 67.

Technical description

Feed f in steel < 500 N/mm ²	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		

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Tool material	HSS		
Standard	DIN 335 D		
Shank	Morse taper		
Through-coolant	no		
Colour ring	without		
Type of product	Stepped drill and countersink		

User data

	Suitability	V _c	ISO code
Alu plastics	suitable	70 m/min	Ν
Aluminium (short chipping)	suitable	33 m/min	Ν
Steel < 500 N/mm ²	suitable	28 m/min	Р
Steel < 750 N/mm ²	suitable	27 m/min	Р
Steel < 900 N/mm ²	suitable only under restricted conditions	27 m/min	Р
wet maximum	suitable		
dry	suitable only under restricted conditions		