

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

Order data

Order number	150152 19
GTIN	4045197717023
Item class	11M

Description
Version:

All countersinks have 3 cutting edges, radially relieved.

Flutes are ground from solid.

High-precision countersink, produced with tight manufacturing tolerances similar to DIN 335-C.

Three **drive flats on the shank** for use in a 3-jaw chuck.

Application:

High precision countersinks for chatter-free countersinking.

Through-coolant: no

Number of cutting edges Z: 3

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smallest countersink Ø for holes from: 3.5 mm

Overall length L: 63 mm

Shank Ø D_s: 10 mm

for countersunk screws ISO 2009, 2010, 7046, 7047: M10

Feed f in steel < 500 N/mm²: 0.14 mm/rev.

Technical description

smallest countersink Ø for holes from	3.5 mm
External Ø	19 mm
Shank tolerance	h9
Feed f in steel < 500 N/mm ²	0.14 mm/rev.
for countersunk screws ISO 2009, 2010, 7046, 7047	M10

Shank $\varnothing D_s$	10 mm
Overall length L	63 mm
Number of cutting edges Z	3
Coating	uncoated
Countersink tip angle	90 degrees
Tool material	HSS
Standard	DIN 335 C
Shank	Shank with h9 and three drive flats
Through-coolant	no
Colour ring	without
Type of product	Stepped drill and countersink