

Garant
High-precision countersink, long 90°, TiAlN, External Ø Dc: 20,5 mm

Order data

Order number	150377 20,5
GTIN	4045197868022
Item class	11M

Description
Version:

All countersinks have 3 cutting edges, radially relief ground. Flutes ground from solid. High-precision countersink, produced to tight manufacturing tolerances similar to DIN335-C, **with long plain shank.**

Special geometry with extremely unequal spacing and matching cutting edge preparation. Newly developed, **special TiAlN coating** for long tool life.

Application:

High-precision countersinks for chatter-free production of **precise, round 90° countersunk surfaces.**

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: 114 mm

Shank Ø D_s: 10 mm

for countersunk screws DIN 7991: M10

Feed f in steel < 500 N/mm²: 0.22 mm/rev.

Technical description

External Ø	20.5 mm
smallest countersink Ø for holes from	3.5 mm
for countersunk screws DIN 7991	M10
Shank Ø D _s	10 mm

Overall length L	114 mm
Pre-drill Ø	3.5 mm
Shank tolerance	h9
Number of cutting edges Z	3
Feed f in steel < 500 N/mm ²	0.22 mm/rev.
Coating	TiAlN
Countersink tip angle	90 degrees
Tool material	HSS
Spacing of the countersink cutting edges	unequal spacing
Standard	Manufacturer's standard
Shank	Parallel shank to h9
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink