

Garant

**Precision solid carbide countersink with unequal spacing 90°, TiAlN, External
Ø Dc: 20,5 mm**



Order data

Order number	150388 20,5
GTIN	4045197745606
Item class	11M

Description

Version:

All countersinks have 3 cutting edges. Special geometry with extremely unequal spacing and matching cutting edge preparation. Radially relief ground. Flutes ground from solid. Newly developed **special TiAlN coating** for long service life.

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

Advantage:

Very smooth cutting throughout the entire countersinking operation. Chatter-free running for perfect results and **optimum tool service life**.

Application:

High-precision countersinks for production of exactly round 90° countersunk surfaces. Very well suited to virtually all materials. Advantage in comparison to HSS countersinks especially in the field of high-tensile steels and because the working life is several times longer.

Shank tolerance h6 - suitable for mounting in hydraulic chucks or shrink-fit chucks.

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 DIN 7991: M10

Feed f in steel < 1100 N/mm²: 0.2 mm/rev.

Technical description

for countersunk screws DIN 7991	M10
smallest countersink Ø for holes from	3.5 mm
Number of cutting edges Z	3
Shank Ø D _s	10 mm
Overall length L	63 mm
External Ø	20.5 mm
Feed f in steel < 1100 N/mm ²	0.2 mm/rev.
Coating	TiAlN
Countersink tip angle	90 degrees
Tool material	Solid carbide
Spacing of the countersink cutting edges	unequal spacing
Standard	DIN 335 C
Shank	Plain shank with h6
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink