

Garant
**Precision countersinks with unequal spacing with 3 drive flats 60°, TiAlN,
External Ø Dc: 20 mm**

Order data

Order number	150817 20
GTIN	4045197889508
Item class	11M

Description
Version:

High-precision 60° countersink with unequal spacing.

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.

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

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 60° countersunk surfaces.**

Through-coolant: no

Number of cutting edges Z: 3

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smallest countersink Ø for holes from: 5 mm

Overall length L: 67 mm

Shank Ø D_s: 10 mm

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

Technical description

Number of cutting edges Z	3
Feed f in steel < 500 N/mm ²	0.22 mm/rev.

Overall length L	67 mm
Shank $\varnothing D_s$	10 mm
External \varnothing	20 mm
smallest countersink \varnothing for holes from	5 mm
Coating	TiAlN
Countersink tip angle	60 degrees
Tool material	HSS
Spacing of the countersink cutting edges	unequal spacing
Standard	DIN 334
Shank	Three clamping flats to h9
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink