

## Garant

### Precision countersinks with unequal spacing 60°, TiAlN, External Ø Dc: 16 mm



#### Order data

Order number	150815 16
GTIN	4045197868091
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.

##### 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

Number of cutting edges Z: 3

smallest countersink Ø for holes from: 4 mm

Overall length L: 63 mm

Shank Ø D<sub>s</sub>: 10 mm

Feed f in steel < 500 N/mm<sup>2</sup>: 0.18 mm/rev.

#### Technical description

External Ø	16 mm
smallest countersink Ø for holes from	4 mm
Shank Ø D <sub>s</sub>	10 mm
Overall length L	63 mm

Number of cutting edges Z	3
Feed f in steel < 500 N/mm <sup>2</sup>	0.18 mm/rev.
Coating	TiAlN
Countersink tip angle	60 degrees
Tool material	HSS
Spacing of the countersink cutting edges	unequal spacing
Standard	DIN 334
Shank	Parallel shank to h9
Through-coolant	no
Colour ring	green
Type of product	Stepped drill and countersink