

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

Order data

| | |
|--------------|---------------|
| Order number | 150150 19 |
| GTIN | 4045197085542 |
| 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.

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 |
| Shank tolerance | h9 |
| External Ø | 19 mm |
| for countersunk screws ISO 2009, 2010, 7046, 7047 | M10 |
| Feed f in steel < 500 N/mm ² | 0.14 mm/rev. |
| Shank Ø D _s | 10 mm |

| | |
|---------------------------|-------------------------------|
| Overall length L | 63 mm |
| Number of cutting edges Z | 3 |
| Coating | uncoated |
| Countersink tip angle | 90 ° |
| Tool material | HSS |
| Standard | DIN 335 C |
| Shank | Plain shank with h9 |
| Through-coolant | no |
| Colour ring | without |
| Type of product | Stepped drill and countersink |

User data

| | Suitability | V _c | ISO code |
|-------------------------------|---|----------------|----------|
| Alu plastics | suitable | 70 m/min | N |
| Aluminium (short chipping) | suitable | 33 m/min | N |
| Steel < 500 N/mm ² | suitable | 28 m/min | P |
| Steel < 750 N/mm ² | suitable | 27 m/min | P |
| Steel < 900 N/mm ² | suitable only under restricted conditions | 27 m/min | P |
| wet maximum | suitable | | |
| dry | suitable only under restricted conditions | | |