

**Garant**
**High-precision countersink 90°, TiAlN, External Ø Dc: 7mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 150170 7      |
| GTIN         | 4045197364715 |
| Item class   | 11M           |

**Description**
**Version:**

**All countersinks have 3 cutting edges**, radially relieved.

Flutes are ground from solid.

Precision countersink for considerable performance improvement.

**Application:**

High precision countersinks for chatter-free countersinking.

**Technical description**

|   |              |
|---|--------------|
| for countersunk screws ISO 2009, 2010, 7046, 7047 | M3.5         |
| External Ø  | 7 mm         |
| Shank tolerance                                   | h9           |
| smallest countersink Ø for holes from             | 1.8 mm       |
| Feed f in steel < 500 N/mm <sup>2</sup>           | 0.09 mm/rev. |
| Shank Ø D <sub>s</sub>                            | 6 mm         |
| Overall length L                                  | 50 mm        |
| Number of cutting edges Z                         | 3            |
| Coating   | TiAlN        |
| Countersink tip angle                             | 90 degrees   |
| Tool material                                     | HSS          |

|                 |                               |
|-----------------|-------------------------------|
| Standard        | DIN 335 C                     |
| Shank           | Plain shank with h9           |
| Through-coolant | no                            |
| Colour ring     | green                         |
| Type of product | Stepped drill and countersink |

### User data

|                               | Suitability                               | V <sub>c</sub> | ISO code |
|-------------------------------|---|----------------|----------|
| Alu > 10% Si                  | suitable only under restricted conditions | 25 m/min       | N        |
| Steel < 500 N/mm <sup>2</sup> | suitable                                  | 34 m/min       | P        |
| Steel < 750 N/mm <sup>2</sup> | suitable                                  | 32 m/min       | P        |
| Steel < 900 N/mm <sup>2</sup> | suitable                                  | 32 m/min       | P        |
| INOX < 900 N/mm <sup>2</sup>  | suitable                                  | 9 m/min        | M        |
| INOX > 900 N/mm <sup>2</sup>  | suitable only under restricted conditions | 8 m/min        | M        |
| CuZn                          | suitable only under restricted conditions | 80 m/min       | N        |
| Uni                           | suitable                                  |                |          |
| wet maximum                   | suitable                                  |                |          |
| dry                           | suitable only under restricted conditions |                |          |