

# High-precision countersink, long 90°, uncoated, External Ø Dc: 16,5mm



### **Order data**

| Order number | 150371 16,5   |  |  |
|--------------|---------------|--|--|
| GTIN         | 4045197086136 |  |  |
| Item class   | 11M           |  |  |

### **Description**

#### **Version:**

**All countersinks have 3 cutting edges**, radially relief ground. Flutes ground from solid. High-precision countersink, produced to tight manufacturing tolerances similar to DIN 335-C with long plain shank.

# **Technical description**

| Shank tolerance                         | h9                      |  |  |
|---|-------------------------|--|--|
| Pre-drill Ø                             | 3.2 mm                  |  |  |
| Feed f in steel < 500 N/mm <sup>2</sup> | 0.14 mm/rev.            |  |  |
| External Ø                              | 16.5 mm                 |  |  |
| smallest countersink Ø for holes from   | 3.2 mm                  |  |  |
| for countersunk screws DIN 7991         | M8                      |  |  |
| Shank Ø D <sub>s</sub>                  | 10 mm                   |  |  |
| Overall length L                        | 111 mm                  |  |  |
| Number of cutting edges Z               | 3                       |  |  |
| Coating                                 | uncoated                |  |  |
| Countersink tip angle                   | 90 degrees              |  |  |
| Tool material                           | HSS                     |  |  |
| Standard                                | Manufacturer's standard |  |  |

| Shank           | Plain shank with h9           |  |  |
|-----------------|-------------------------------|--|--|
| Through-coolant | no                            |  |  |
| Colour ring     | without                       |  |  |
| Type of product | Stepped drill and countersink |  |  |

### **User data**

|                               | Suitability                               | <b>V</b> <sub>c</sub> | ISO code |
|-------------------------------|---|-----------------------|----------|
| Alu plastics                  | suitable                                  | 70 m/min              | N        |
| Aluminium (short chipping)    | suitable                                  | 33 m/min              | N        |
| Alu > 10% Si                  | suitable only under restricted conditions | 20 m/min              | N        |
| Steel < 500 N/mm <sup>2</sup> | suitable                                  | 28 m/min              | Р        |
| Steel < 750 N/mm <sup>2</sup> | suitable                                  | 27 m/min              | Р        |
| Steel < 900 N/mm <sup>2</sup> | suitable only under restricted conditions | 27 m/min              | Р        |
| wet maximum                   | suitable                                  |                       |          |
| dry                           | suitable only under restricted conditions |                       |          |