

**Garant**
**Solid carbide short stepped drill 180°, TiAlN, for screws: M4**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 125120 M4     |
| GTIN         | 4045197065025 |
| Item class   | 11E           |

**Description**
**Version:**

**Very sturdy**– step length to DIN 8376. **Tight concentricity tolerances** between drill and counterbore  $\varnothing$  guarantee exact alignment.

**Application:**

For screw through holes to DIN-ISO 273 and counterbores to DIN 74, sheet 2 form H, J, and K, medium version. For screws to DIN 912, 6912, and 7984, ISO 1207 (DIN 84).

**Technical description**

|   |               |
|---|---------------|
| Step height $L_1$ 1st step 180°           | 11 mm         |
| $\varnothing D_2$ 2nd step 180° h8        | 8 mm          |
| $\varnothing D_1$ 1st step 180° h8        | 4.5 mm        |
| for screws                                | M4            |
| Feed $f$ in steel $< 1100 \text{ N/mm}^2$ | 0.08 mm/rev.  |
| Flute length $L_c$                        | 37 mm         |
| Number of cutting edges $Z$               | 2             |
| Shank $\varnothing D_s$                   | 8 mm          |
| Overall length $L$                        | 79 mm         |
| Coating                                   | TiAlN         |
| Tool material                             | Solid carbide |
| Standard                                  | DIN 8376      |

|                                 |               |
|---------------------------------|---------------|
| Type                            | N             |
| Tolerance nominal $\varnothing$ | h8            |
| Point angle                     | 140 degrees   |
| Shank                           | Plain shank   |
| Countersink angle               | 180 degrees   |
| Through-coolant                 | no            |
| Shank tolerance                 | h6            |
| Colour ring                     | without       |
| Type of product                 | Stepped drill |

### User data

|                                | Suitability                               | $V_c$     | ISO code |
|--------------------------------|---|-----------|----------|
| Alu plastics                   | suitable only under restricted conditions | 260 m/min | N        |
| Aluminium (short chipping)     | suitable                                  | 180 m/min | N        |
| Alu > 10% Si                   | suitable                                  | 180 m/min | N        |
| Steel < 500 N/mm <sup>2</sup>  | suitable                                  | 90 m/min  | P        |
| Steel < 750 N/mm <sup>2</sup>  | suitable                                  | 90 m/min  | P        |
| Steel < 900 N/mm <sup>2</sup>  | suitable                                  | 90 m/min  | P        |
| Steel < 1100 N/mm <sup>2</sup> | suitable                                  | 60 m/min  | P        |
| Steel < 1400 N/mm <sup>2</sup> | suitable                                  | 35 m/min  | P        |
| INOX < 900 N/mm <sup>2</sup>   | suitable                                  | 35 m/min  | M        |
| INOX > 900 N/mm <sup>2</sup>   | suitable                                  | 30 m/min  | M        |
| Ti > 850 N/mm <sup>2</sup>     | suitable                                  | 25 m/min  | S        |
| GG(G)                          | suitable only under restricted conditions | 110 m/min | K        |
| CuZn                           | suitable                                  | 180 m/min | N        |
| Uni                            | suitable                                  |           |          |
| wet maximum                    | suitable                                  |           |          |

dry

suitable only under  
restricted conditions