

**Garant**
**Solid carbide micro slot drill, DLC, Ø DC × L1: 0,8X12 mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 201140 0,8X12 |
| GTIN         | 4045197912824 |
| Item class   | 11X           |

**Description**
**Version:**

With **advanced DLC sp<sup>2</sup> coating**. For the **highest demands regarding performance and precision in aluminium materials**. **Extremely tight tolerances** ensure maximum accuracy. Double relief ground with 2 hollow-ground chamfers. **Recess angle  $\alpha = 16^\circ$** .

Tolerances:

· **Neck Ø:  $D_1 = 0 / -0.01$  mm.**

**Note:**

At greater tool overhang lengths, use a reduced value for  $a_p$ !  
 Values for:  
 slots milled from solid:  $a_p = 0.25 \times D \times a_{p,corr}$   
 side milling:  $a_p = 0.5 \times D \times a_{p,corr}$   
**To calculate the feed rate  $vf$  please use the actual speed of the machine (the maximum possible speed)!**  
 e.g:  $vf = 18000 \text{ [rpm]} \times fz \text{ [mm/Z]} \times z$

Through-coolant: no

Tolerance nominal Ø:  $0 / -0.005$

No. of teeth Z: 2

Helix angle: 25 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h5

No. of teeth Z: 2

Flute length  $L_c$ : 1.2 mm

Overhang length  $L_1$  incl. recess: 12 mm

Recess Ø  $D_1$ : 0.78 mm

Overall length L: 50 mm

Shank Ø  $D_s$ : 4 mm

**Technical description**

|                     |                                  |
|---------------------|----------------------------------|
| Direction of infeed | horizontal, oblique and vertical |
|---------------------|----------------------------------|

|   |                             |
|---|-----------------------------|
| Tolerance nominal $\varnothing$               | 0 / -0.005                  |
| Overhang length $L_1$ incl. recess            | 12 mm                       |
| Shank $\varnothing D_s$                       | 4 mm                        |
| Shank   | DIN 6535 HA to h5           |
| Feed $f_z$ for side milling in cast aluminium | 0.016 mm                    |
| Flute length $L_c$                            | 1.2 mm                      |
| Recess $\varnothing D_1$                      | 0.78 mm                     |
| Cutting edge $\varnothing D_c$                | 0.8 mm                      |
| Overall length L                              | 50 mm                       |
| No. of teeth Z                                | 2                           |
| Feed $f_z$ for slot milling in cast aluminium | 0.012 mm                    |
| Helix angle                                   | 25 degrees                  |
| Correction factor $a_{p\ corr}$               | 0.2                         |
| Corner chamfer angle                          | 90 degrees                  |
| Coating                                       | DLC                         |
| Tool material                                 | Solid carbide               |
| Standard                                      | Manufacturer's standard     |
| Type  | W                           |
| Cutting width $a_e$ for milling operation     | 0.5xD for side milling      |
| Cutting width $a_e$ for milling operation     | Full slot cutting depth 1xD |
| Through-coolant                               | no                          |
| Colour ring                                   | yellow                      |
| Type of product                               | End mill                    |