

## Garant

### Roughing end mill with internal cooling, TiAlN, Ø k12 DC: 25 mm



#### Order data

|              |               |
|--------------|---------------|
| Order number | 192910 25     |
| GTIN         | 4045197108791 |
| Item class   | 11W           |

#### Description

##### Version:

**Relief ground fine pitch knuckle form profile.** Centre cutting edge geometry for plunging. For the most demanding metal removal rates.

##### Advantage:

The coolant is fed directly **to the cutting edges**, resulting in **longer tool life** and **complete chip clearance**.

Through-coolant: yes

Tolerance nominal Ø: k12

No. of teeth Z: 5

Helix angle: 30 degrees

Direction of infeed: horizontal and oblique

Shank: DIN 1835 B to h6

No. of teeth Z: 5

Flute length  $L_c$ : 45 mm

Overall length L: 121 mm

Shank Ø  $D_s$ : 25 mm

Corner chamfer width at 45°: 0.5 mm

Feed  $f_z$  for slot milling in steel < 1100 N/mm<sup>2</sup>: 0.054 mm

#### Technical description

|                             |        |
|-----------------------------|--------|
| Corner chamfer width at 45° | 0.5 mm |
| Cutting edge Ø $D_c$        | 25 mm  |
| No. of teeth Z              | 5      |
| Shank Ø $D_s$               | 25 mm  |

|  |                        |
|--|------------------------|
| Overall length L   | 121 mm                 |
| Flute length L <sub>c</sub>  | 45 mm                  |
| Feed f <sub>z</sub> for slot milling in steel < 1100 N/mm <sup>2</sup> | 0.054 mm               |
| Direction of infeed  | horizontal and oblique |
| Shank  | DIN 1835 B to h6       |
| Tolerance nominal Ø  | k12                    |
| Helix angle  | 30 degrees             |
| Corner chamfer angle   | 45 degrees             |
| Coating  | TiAlN                  |
| Tool material  | HSS PM                 |
| Standard   | DIN 844                |
| Milling profile  | HR                     |
| Spacing of the cutters   | unequal spacing        |
| Through-coolant  | yes                    |
| Colour ring  | without                |
| Type of product  | End mill               |