

Garant

Solid carbide milling cutter TPC, TiAlN, Ø f8 DC: 20 mm



Order data

| | |
|--------------|---------------|
| Order number | 203077 20 |
| GTIN | 4045197657305 |
| Item class | 11X |

Description

Version:

High-performance slot drill for machining materials up to 60 HRC, **specially designed for TPC applications.**

Strengthened core. With corner radii similar to torus cutters.

Note:

$h_{m\ max}$: the values stated in the table are maximum values.

$a_{e\ max} = 0.05 \times D$ for TPC machining.

Tolerance nominal Ø: f8

No. of teeth Z: 5

Helix angle: 45 degrees

Direction of infeed: horizontal and oblique

Shank: DIN 6535 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 5

Flute length L_c : 60 mm

Overhang length L_1 incl. recess: 70 mm

Recess Ø D_1 : 19.8 mm

Overall length L: 126 mm

Shank Ø D_s : 20 mm

Technical description

| | |
|------------------------------------|---------|
| Recess Ø D_1 | 19.8 mm |
| Cutting edge Ø D_c | 20 mm |
| No. of teeth Z | 5 |
| Overhang length L_1 incl. recess | 70 mm |

| | |
|---|-------------------------|
| Average chip thickness h_{\max} for TPC milling in steel < 60 HRC | 0.062 mm |
| Shank $\varnothing D_s$ | 20 mm |
| Overall length L | 126 mm |
| Flute length L_c | 60 mm |
| Direction of infeed | horizontal and oblique |
| Shank | DIN 6535 HB to h6 |
| Tolerance nominal \varnothing | f8 |
| Balance quality with shank | G 2.5 with HB |
| Helix angle | 45 degrees |
| Corner rounding r_v | 0.3 mm |
| Coating | TiAlN |
| Tool material | Solid carbide |
| Standard | Manufacturer's standard |
| Type | H |
| Helix angle characteristic | unequal spacing |
| Spacing of the cutters | unequal spacing |
| Cutting width a_e for milling operation | $0.05 \times D$ |
| Through-coolant | no |
| Machining strategy | TPC |
| Colour ring | red |
| Type of product | End mill |

Services

| | |
|---|-------------|
| Shank recess Type FRST | 209900 FRST |
| Shank clamping flats for shrink-fit chucks, with retainer function Shank \varnothing tool 20 mm | SZ2025 20 |