Garant

Solid carbide milling cutter HPC, TiAlN, Ø DC: 10mm



Order data

| Order number | 203212 10 |
|--------------|---------------|
| GTIN | 4045197641014 |
| Item class | 11X |

Description

Version:

GARANT Diabolo 70:

Special solid carbide substrate with extremely high tensile strength combined with outstanding wear resistance for optimum process reliability. Newly developed nano-crystalline high-tech coating for hard milling up to 70 HRC. Very suitable for continuous use in tool and mould making.

Sizes 2 - 5: **Recess angle** $\alpha = 15^{\circ}$.

Tolerance:

• Size nominal \emptyset : D_c \leq size 12: 0 / -0.02 mm;

• Size nominal Ø: D_c from size 16: 0 / -0.03 mm.

Application:

Due to the **special hard geometry** ideal for use on hardened materials from 60 HRC to 70 HRC. **For profile milling** as **finishing**.

(Plunge cutting only to shallow depths.) **Note:** For materials > 65 HRC: $a_e = 0.02 \times D$.

Technical description

| No. of teeth Z | 6 |
|---|----------|
| Feed f_z for side milling in steel < 70 HRC | 0.025 mm |
| Cutting edge $Ø D_c$ | 10 mm |
| Shank Ø D _s | 10 mm |
| Overall length L | 73 mm |

| Flute length L _c | 22 mm | |
|---|-------------------------|--|
| Direction of infeed | horizontal and oblique | |
| Shank | DIN 6535 HA to h6 | |
| Tolerance nominal Ø | 0 / -0.02 | |
| Helix angle | 45 degrees | |
| Corner chamfer angle | 90 degrees | |
| Coating | TiAIN | |
| Tool material | Solid carbide | |
| Standard | Manufacturer's standard | |
| Туре | Н | |
| Cutting width a_e for milling operation | 0.05×D for side milling | |
| Through-coolant | no | |
| Machining strategy | HPC | |
| Colour ring | red | |
| Type of product | End / face mill | |

User data

| | Suitability | V _c | ISO code |
|----------------|---|----------------|----------|
| Steel < 60 HRC | suitable only under restricted conditions | 145 m/min | Н |
| Steel < 65 HRC | suitable | 100 m/min | Н |
| Steel < 67 HRC | suitable | 80 m/min | Н |
| Steel < 70 HRC | suitable | 75 m/min | Н |
| wet minimum | suitable only under restricted conditions | | |
| dry | suitable | | |
| Air | suitable | | |

Services

| Shank | grinding | Type HB |
|-------|----------|---------|
|-------|----------|---------|

129100 HB

© Hoffmann GmbH Qualitätswerkzeuge