

# Solid carbide milling cutter HPC, TiAlN, Ø DC: 20 mm



## **Order data**

Order number	203212 20
GTIN	4045197641045
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 nanocrystalline 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 Ø:  $D_c \le$  size 12: 0 / -0.02 mm;
- Size nominal Ø: D<sub>c</sub> 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:  $a_e = 0.02 \times D$ .

Machining strategy: HPC Tolerance nominal Ø: 0 / -0.03

No. of teeth Z: 6

Helix angle: 45 degrees

Direction of infeed: horizontal and oblique

Shank: DIN 6535 HA to h6

No. of teeth Z: 6

Flute length  $L_c$ : 38 mm Overall length L: 105 mm

Shank Ø D<sub>s</sub>: 20 mm

Feed  $f_z$  for side milling in steel < 70 HRC: 0.045 mm

# **Technical description**

No. of teeth Z	6
Feed $f_z$ for side milling in steel < 70 HRC	0.045 mm
Cutting edge Ø D <sub>c</sub>	20 mm
Shank Ø D <sub>s</sub>	20 mm
Overall length L	105 mm
Flute length L <sub>c</sub>	38 mm
Direction of infeed	horizontal and oblique
Shank	DIN 6535 HA to h6
Tolerance nominal Ø	0 / -0.03
Helix angle	45 degrees
Corner chamfer angle	90 degrees
Series	Diabolo
Coating	TiAIN
Tool material	Solid carbide
Standard	Manufacturer's standard
Туре	Н
Cutting width a <sub>e</sub> for milling operation	0.05×D for side milling
Through-coolant	no
Machining strategy	HPC
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
Shank grinding Type HB	129100 HB

