

Solid carbide milling cutter HPC, TiAlN, Ø DC: 12 mm



Order data

Order number	203212 12
GTIN	4045197641021
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_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: $a_e = 0.02 \times D$.

Machining strategy: HPC Tolerance nominal Ø: 0 / -0.02

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: 26 mm Overall length L: 74 mm Shank Ø D_s: 12 mm

Feed f_z for side milling in steel < 70 HRC: 0.035 mm

Technical description

Cutting edge \emptyset D _c	12 mm
No. of teeth Z	6
Feed f_z for side milling in steel < 70 HRC	0.035 mm
Shank Ø D _s	12 mm
Overall length L	74 mm
Flute length L _c	26 mm
Direction of infeed	horizontal and oblique
Shank	DIN 6535 HA to h6
Tolerance nominal ∅	0 / -0.02
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 _e 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 12 mm	SZ2025 12
Shank grinding Type HB	129100 HB

