

Solid carbide torus cutter HPC, TiAlN, Ø DC / R1: 12/1,0 mm



Order data

Order number	206323 12/1,0
GTIN	4045197641137
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 $\alpha = 15^{\circ}$.

Tolerances:

· Corner radius: $R_1 = \pm 0.01$ mm.

Application:

Due to the **special hard geometry** ideal for use on hardened materials from 60 HRC to 70 HRC.

No. of teeth Z: 4

Helix angle: 30 degrees Shank: DIN 6535 HA to h6 No. of teeth Z: 4

Flute length L_c: 12 mm Corner radius R₁: 1 mm

Overhang length L₁ incl. recess: 26 mm

Recess Ø D₁: 11.7 mm Overall length L: 74 mm

Technical description

Corner radius R ₁	1 mm
Feed f_z for side milling in steel < 70 HRC	0.08 mm
No. of teeth Z	4

Feed f_z for copy milling in steel < 70 HRC	0.08 mm
Cutting edge Ø D _C	12 mm
Recess Ø D ₁	11.7 mm
Overhang length L₁ incl. recess	26 mm
Shank Ø D _s	12 mm
Flute length L _c	12 mm
Overall length L	74 mm
Shank	DIN 6535 HA to h6
Helix angle	30 degrees
Series	Diabolo
Coating	TiAIN
Tool material	Solid carbide
Standard	Manufacturer's standard
Туре	Н
Tolerance nominal Ø	0 / -0.02
Direction of infeed	horizontal, oblique and vertical
Cutting width a _e for milling operation	0.05×D for copy milling
Cutting width a _e for milling operation	0.05×D for side milling
Through-coolant	no
Machining strategy	HPC
Shank tolerance	h6
Colour ring	red
Type of product	End mill
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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

