Garant

Solid carbide torus cutter HPC, TiAIN, Ø DC / R1: 4/0,5 mm



Order data

Order number	206323 4/0,5
GTIN	4045197640857
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 : 4 mm Corner radius R_1 : 0.5 mm Overhang length L_1 incl. recess: 16 mm Recess Ø D_1 : 3.9 mm Overall length L: 58 mm

Technical description

Recess Ø D ₁	3.9 mm
No. of teeth Z	4
Feed f_z for copy milling in steel < 70 HRC	0.019 mm

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Feed f_z for side milling in steel < 70 HRC	0.019 mm
Overhang length L ₁ incl. recess	16 mm
Cutting edge $Ø D_c$	4 mm
Corner radius R ₁	0.5 mm
Shank Ø D _s	6 mm
Flute length L_c	4 mm
Overall length L	58 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

Services

Shank recess Type FRST	209900 FRST
Shank grinding Type HB	129100 HB