

Garant

GARANT Master Titan solid carbide milling cutter with more chip separators TPC, TiAlN, Ø e8 DC: 4 mm



Order data

Order number	203123 4
GTIN	4062406120122
Item class	11Z

Description

Version:

High-performance milling cutter specially designed for general-purpose TPC applications. Strengthened core.

Optimised bending strength due to the use of ultra-fine grain substrates.

Application:

Especially for milling **titanium and titanium alloys**.

Note:

h_{max} : The values stated in the table are maximum values.

$a_{e max}$: = $0.06 \times D$ for TPC machining.

Tolerance nominal Ø: e8

No. of teeth Z: 6

Helix angle: 40 degrees

Direction of infeed: horizontal and oblique

Shank: DIN 1835 B to h5

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 6

Flute length L_c : 16 mm

Overhang length L_1 incl. recess: 23 mm

Recess Ø D_1 : 3.9 mm

Overall length L: 62 mm

Shank Ø D_s : 6 mm

Technical description

Cutting edge Ø D_c	4 mm
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Balance quality with shank	G 2.5 with HB
Shank $\varnothing D_s$	6 mm
Direction of infeed	horizontal and oblique
No. of teeth Z	6
Helix angle	40 degrees
Flute length L_c	16 mm
Recess $\varnothing D_1$	3.9 mm
Overhang length L_1 incl. recess	23 mm
Average chip thickness h_{max} for TPC milling in titanium > 850 N/mm ²	0.03 mm
Overall length L	62 mm
Shank	DIN 1835 B to h5
Tolerance nominal \varnothing	e8
Corner rounding r_v	0.1 mm
Series	GARANT Master Titan
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Cutting width a_e for milling operation	0.06×D
Through-coolant	no
Machining strategy	TPC
Colour ring	pink
Type of product	End mill