

Garant

GARANT Master Titan solid carbide milling cutter with more chip separators TPC, TiAlN, Ø e8 DC: 5mm



Order data

Order number	203123 5
GTIN	4062406120139
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°

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 : 17 mm

Overhang length L_1 incl. recess: 24 mm

Recess Ø D_1 : 4.8 mm

Overall length L: 62 mm

Shank Ø D_s : 6 mm

Technical description

Recess Ø D_1	4.8 mm
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Direction of infeed	horizontal and oblique
Average chip thickness h_{\max} for TPC milling in titanium > 850 N/mm ²	0.035 mm
Overhang length L_1 incl. recess	24 mm
Cutting edge $\varnothing D_c$	5 mm
No. of teeth Z	6
Balance quality with shank	G 2.5 with HB
Overall length L	62 mm
Helix angle	40 °
Flute length L_c	17 mm
Tolerance nominal \varnothing	e8
Shank	DIN 1835 B to h5
Shank $\varnothing D_s$	6 mm
Corner rounding r_v	0.1 mm
Series	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 / face mill

User data

	Suitability	V_c	ISO code
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Ti > 850 N/mm ²	suitable	120 m/min	S
wet maximum	suitable		