

Garant

GARANT Master Titan solid carbide milling cutter with more chip separators TPC, TiAlN, Ø e8 DC: 12mm



Order data

Order number	203122 12
GTIN	4062406120085
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.

$a_{e,max}$: = $0.08 \times D$ 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 : 26 mm

Overhang length L_1 incl. recess: 36 mm

Recess Ø D_1 : 11.8 mm

Overall length L: 83 mm

Shank Ø D_s : 12 mm

Technical description

Tolerance nominal Ø	e8
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Direction of infeed	horizontal and oblique
Shank $\varnothing D_s$	12 mm
Overall length L	83 mm
Cutting edge $\varnothing D_c$	12 mm
No. of teeth Z	6
Shank	DIN 1835 B to h5
Average chip thickness h_{max} for TPC milling in titanium > 850 N/mm ²	0.07 mm
Recess $\varnothing D_1$	11.8 mm
Helix angle	40°
Flute length L_c	26 mm
Overhang length L_1 incl. recess	36 mm
Balance quality with shank	G 2.5 with HB
Corner rounding r_v	0.2 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	0,08×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		