

## Garant

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



## Order data

Order number	203123 12
GTIN	4062406120177
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.

## Technical description

Balance quality with shank	G 2.5 with HB
Overall length L	93 mm
Tolerance nominal Ø	e8
Average chip thickness $h_{max}$ for TPC milling in titanium > 850 N/mm <sup>2</sup>	0.07 mm
Cutting edge Ø $D_c$	12 mm
Shank Ø $D_s$	12 mm
Direction of infeed	horizontal and oblique
Shank	DIN 1835 B to h5

No. of teeth Z	6
Helix angle	40 degrees
Recess $\varnothing D_1$	11.8 mm
Overhang length $L_1$ incl. recess	45 mm
Flute length $L_c$	36 mm
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	$0.06 \times D$
Through-coolant	no
Machining strategy	TPC
Colour ring	pink
Type of product	End / face mill

## User data

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