

## Garant

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



#### Order data

Order number	203124 12
GTIN	4062406120252
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.

$a_{e,max}$ : =  $0.04 \times D$  for TPC machining.

#### Technical description

No. of teeth Z	6
Overall length L	100 mm
Shank	DIN 1835 B to h5
Helix angle	40 degrees
Flute length $L_c$	48 mm
Cutting edge $\varnothing D_c$	12 mm
Shank $\varnothing D_s$	12 mm
Average chip thickness $h_{max}$ for TPC milling in titanium > 850 N/mm <sup>2</sup>	0.056 mm

Tolerance nominal $\varnothing$	e8
Direction of infeed	horizontal and oblique
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	$0.04 \times D$
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	100 m/min	S
wet maximum	suitable		