

## Garant

### GARANT Master Titan solid carbide milling cutter with more chip separators TPC, TiAlN, Ø e8 DC: 16mm



#### Order data

Order number	203122 16
GTIN	4062406120108
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.

#### Technical description

Recess Ø D <sub>1</sub>	15.8 mm
Overhang length L <sub>1</sub> incl. recess	42 mm
Overall length L	93 mm
Shank	DIN 1835 B to h5
Direction of infeed	horizontal and oblique
Helix angle	40 degrees
Cutting edge Ø D <sub>c</sub>	16 mm
Flute length L <sub>c</sub>	32 mm

Average chip thickness $h_{\max}$ for TPC milling in titanium > 850 N/mm <sup>2</sup>	0.085 mm
Shank $\varnothing D_s$	16 mm
No. of teeth Z	6
Balance quality with shank	G 2.5 with HB
Tolerance nominal $\varnothing$	e8
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	0,08xD
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		