

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

**Order data**

Order number	203122 5
GTIN	4062406120047
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**

Overall length L	57 mm
Recess Ø $D_1$	4.8 mm
Flute length $L_c$	13 mm
Balance quality with shank	G 2.5 with HB
Average chip thickness $h_{max}$ for TPC milling in titanium > 850 N/mm <sup>2</sup>	0.035 mm
No. of teeth Z	6
Cutting edge Ø $D_c$	5 mm
Shank Ø $D_s$	6 mm

Direction of infeed	horizontal and oblique
Helix angle	40 degrees
Shank	DIN 1835 B to h5
Tolerance nominal $\varnothing$	e8
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	0,08xD
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		