

## Garant

### GARANT Master Titan solid carbide end torus cutter HPC, TiAlN, Ø h9 DC: 12 mm



#### Order data

Order number	206286 12
GTIN	4045197991737
Item class	11Z

#### Description

##### Version:

Tolerance: Corner radius  $R_1 = \pm 0.01$  mm.

Special centre cutting edge geometry for traverse milling at very high feed rates.

##### Application:

**For copy and traverse milling** of titanium under HPC conditions.

Using special milling strategies **very high rates of metal removal can be achieved.**

##### Note:

Regrinding not recommended.

No. of teeth Z: 5

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Dimension  $a_{p\max}$  transverse: 0.8 mm

Programming radius: 2 mm

Flute length  $L_c$ : 6.8 mm

Overhang length  $L_1$  incl. recess: 30 mm

Recess  $\varnothing D_1$ : 11 mm

#### Technical description

Cutting edge $\varnothing D_c$	12 mm
Shank $\varnothing D_s$	12 mm
Overall length L	93 mm
Overhang length $L_1$ incl. recess	30 mm
Recess $\varnothing D_1$	11 mm

No. of teeth Z	5
Flute length $L_c$	6.8 mm
Feed $f_z$ for copy milling in titanium $> 850 \text{ N/mm}^2$	0.17 mm
Programming radius	2 mm
Dimension $a_{p \max}$ transverse	0.8 mm
Setting angle $\kappa$	15 degrees
Series	GARANT Master Titan
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Tolerance nominal $\varnothing$	h9
Helix angle	15 degrees
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	$0.05 \times D$ for copy milling
Shank	DIN 6535 HA to h6
Through-coolant	no
Machining strategy	HPC
Colour ring	pink
Type of product	End mill

## Services

Shank grinding Type HB	129100 HB
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