

**Garant**
**GARANT Master Titan solid carbide end torus cutter HPC, TiAlN, Ø h9 DC: 4mm**

**Order data**

Order number	206288 4
GTIN	4045197989505
Item class	11Z

**Description**
**Version:**

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

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: 2

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Dimension  $a_{p \text{ max}}$  transverse: 0.25 mm

Programming radius: 0.5 mm

Flute length  $L_c$ : 2.5 mm

Overhang length  $L_1$  incl. recess: 24 mm

Recess  $\varnothing D_1$ : 3.6 mm

**Technical description**

Flute length $L_c$	2.5 mm
Recess $\varnothing D_1$	3.6 mm
No. of teeth Z	2
Overall length L	85 mm
Overhang length $L_1$ incl. recess	24 mm

Shank $\varnothing D_s$	6 mm
Cutting edge $\varnothing D_c$	4 mm
Programming radius	0.5 mm
Dimension $a_{p\ max}$ transverse	0.25 mm
Setting angle $\kappa$	10.5 °
Feed f in titanium > 850 N/mm <sup>2</sup>	0.05 mm
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Tolerance nominal $\varnothing$	h9
Helix angle	15 °
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	Full slot cutting depth 1xD
Shank	DIN 6535 HA to h6
Through-coolant	no
Machining strategy	HPC
Colour ring	pink
Type of product	End torus mill

## User data

	Suitability	$V_c$	ISO code
Ti > 850 N/mm <sup>2</sup>	suitable	80 m/min	S
wet maximum	suitable		

## Services

Shank grinding Type HB	129100 HB
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