

**Garant**
**GARANT Master Titan solid carbide end torus cutter HPC, TiAlN, Ø h9 DC: 6mm**

**Order data**

Order number	206288 6
GTIN	4045197989512
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.

**Technical description**

No. of teeth Z	4
Flute length $L_c$	3.5 mm
Cutting edge $\varnothing D_c$	6 mm
Shank $\varnothing D_s$	6 mm
Overhang length $L_1$ incl. recess	28 mm
Recess $\varnothing D_1$	5.2 mm
Overall length L	100 mm
Programming radius	1 mm
Dimension $a_{p \max}$ transverse	0.4 mm
Setting angle $\kappa$	12.5 degrees

Feed f in titanium > 850 N/mm <sup>2</sup>	0.075 mm
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Tolerance nominal Ø	h9
Helix angle	15 degrees
Direction of infeed	horizontal, oblique and vertical
Cutting width a <sub>e</sub> for milling operation	Full slot cutting depth 1×D
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 <sub>c</sub>	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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