

**Garant**
**Solid carbide end torus cutter HPC, TiAlN, Ø h9 DC: 12mm**

**Order data**

Order number	206266 12
GTIN	4045197860675
Item class	11X

**Description**
**Version:**

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

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

**Application:**

**For copy and traverse milling** over the full range of hard machining **under HPC/HSC conditions**.

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

**Note:**

**Successor product to No. 206272.**

**Tools can be reground.**

**Technical description**

Shank $\varnothing D_s$	12 mm
Overall length L	93 mm
Feed $f_z$ in steel $< 900 \text{ N/mm}^2$	0.266 mm
No. of teeth Z	4
Cutting edge $\varnothing D_c$	12 mm
Dimension $a_{p \text{ max}}$ transverse	0.8 mm
Programming radius	2 mm
Overhang length $L_1$ incl. recess	30 mm
Flute length $L_c$	6.8 mm

Recess $\varnothing D_1$	11 mm
Setting angle $\kappa$	15 degrees
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	N
Tolerance nominal $\varnothing$	h9
Helix angle	15 degrees
Direction of infeed	horizontal and oblique
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Shank	DIN 6535 HA to h5
Through-coolant	no
Machining strategy	HPC
Colour ring	green
Type of product	End torus mill

## User data

	Suitability	$V_c$	ISO code
Steel < 500 N/mm <sup>2</sup>	suitable	155 m/min	P
Steel < 750 N/mm <sup>2</sup>	suitable	150 m/min	P
Steel < 900 N/mm <sup>2</sup>	suitable	145 m/min	P
Steel < 1100 N/mm <sup>2</sup>	suitable	140 m/min	P
Steel < 1400 N/mm <sup>2</sup>	suitable	130 m/min	P
INOX < 900 N/mm <sup>2</sup>	suitable only under restricted conditions	90 m/min	M
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		

dry	suitable only under restricted conditions
Air	suitable only under restricted conditions
<b>Services</b>	
Shank grinding Type HB	129100 HB