

**Garant**
**Diabolo solid carbide end torus cutter HPC, TiAlN, Ø h9 DC: 10 mm**

**Order data**

Order number	206273 10
GTIN	4045197860811
Item class	11X

**Description**
**Version:**
**GARANT Diabolo:**

Special geometry, coating and carbide for hard machining.

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** in hard machining **under HPC / HSC conditions**. Special milling strategies allow **very high metal removal rates**.

**Note:**

**Successor product to No. 206276.**

**Tools can be reground.**

No. of teeth Z: 4

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Dimension  $a_{p\ max}$  transverse: 0.3 mm

Programming radius: 2 mm

Flute length  $L_c$ : 5.8 mm

Overhang length  $L_1$  incl. recess: 26 mm

Recess  $\varnothing D_1$ : 9 mm

**Technical description**

Cutting edge $\varnothing D_c$	10 mm
Dimension $a_{p\ max}$ transverse	0.3 mm
Feed $f_z$ in steel < 60 HRC	0.158 mm
Overhang length $L_1$ incl. recess	26 mm

Recess $\varnothing D_1$	9 mm
Programming radius	2 mm
No. of teeth Z	4
Shank $\varnothing D_s$	10 mm
Flute length $L_c$	5.8 mm
Overall length L	85 mm
Setting angle $\kappa$	7 degrees
Series	Diabolo
Coating	TiAlN
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	H
Tolerance nominal $\varnothing$	h9
Helix angle	12 degrees
Direction of infeed	horizontal, oblique and vertical
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	red
Type of product	End mill

## Services

Shank grinding Type HB	129100 HB
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