

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

Order data

Order number	206262 12
GTIN	4062406279851
Item class	11X

Description
Version:

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

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

Tools can be reground.

With conically increasing recess to guarantee stability at long overhangs.

Technical description

Flute length L_c	6.8 mm
Shank $\varnothing D_s$	12 mm
Programming radius	2 mm
Dimension $a_{p \max}$ transverse	0.8 mm
No. of teeth Z	6
Overall length L	93 mm
Overhang length L_1 incl. recess	30 mm
Feed f_z in steel < 900 N/mm ²	0.22 mm
Setting angle κ	15 degrees

Cutting edge $\varnothing D_c$	12 mm
minimum shank recess dia. D_5	11 mm
maximum shank recess dia. D_6	11.9 mm
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	$0.5 \times D$ for side milling
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 ²	suitable	175 m/min	P
Steel < 750 N/mm ²	suitable	170 m/min	P
Steel < 900 N/mm ²	suitable	155 m/min	P
Steel < 1100 N/mm ²	suitable	140 m/min	P
Steel < 1400 N/mm ²	suitable	130 m/min	P
INOX < 900 N/mm ²	suitable	100 m/min	M
INOX > 900 N/mm ²	suitable	95 m/min	M
Uni	suitable		
wet maximum	suitable		
wet minimum	suitable		

dry	suitable only under restricted conditions
Air	suitable only under restricted conditions
Services	
Shank grinding Type HB	129100 HB