

**Garant**
**Solid carbide torus cutter HPC, ZOx, Ø f8 DC / R1: 12/0,5mm**

**Order data**

Order number	206265 12/0,5
GTIN	4045197539229
Item class	11X

**Description**
**Version:**

With strong core, **special chip breaker recesses** and **large polished flutes**.  
New generation of high performance end mills in the HPC machining range.

**Application:**

Especially for **high speed machining** in **mould and tool making** for **copy milling**.

**Technical description**

Overhang length $L_1$ incl. recess	73 mm
Feed $f_z$ for side milling in short-chipping aluminium	0.07 mm
Feed $f_z$ for copy milling in short-chipping aluminium	0.07 mm
Cutting edge $\varnothing D_c$	12 mm
Corner radius $R_1$	0.5 mm
No. of teeth $Z$	3
Recess $\varnothing D_1$	11 mm
Shank $\varnothing D_s$	12 mm
Flute length $L_c$	19 mm
Overall length $L$	120 mm
Balance quality with shank	G 2.5 with HA
Shank	DIN 6535 HA to h6
Helix angle	45 degrees

Coating	ZOX
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Tolerance nominal $\varnothing$	f8
Helix angle characteristic	unequal spacing
Spacing of the cutters	unequal spacing
Direction of infeed	horizontal, oblique and vertical
Cutting width $a_e$ for milling operation	0.3×D for side milling
Cutting width $a_e$ for milling operation	0.03×D for copy milling
Through-coolant	no
Machining strategy	HPC
Shank tolerance	h6
Colour ring	yellow
Type of product	Torus cutter

## User data

	Suitability	$V_c$	ISO code
Aluminium	suitable only under restricted conditions	250 m/min	N
Aluminium (short chipping)	suitable	240 m/min	N
Alu > 10% Si	suitable	120 m/min	N
Cu	Suitable	100 m/min	N
CuZn	suitable	120 m/min	N
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		

Air

suitable only under  
restricted conditions

**Services**

Shank grinding Type HB

129100 HB