

Garant
Solid carbide torus cutter, DLC, Ø h6 DC / R1: 12/2,0mm

Order data

Order number	206250 12/2,0
GTIN	4045197860538
Item class	11X

Description
Version:

With the latest generation of **DLC coating sp²**.

Eccentric relief ground, additionally **polish ground** in the flutes for **outstanding chip evacuation** in long-chipping aluminium components.

Dimensions to manufacturer's standard.

Tolerances:

· **Corner radius**

R₁ = 0.5 tolerance ±0.02.

R₁ > 0.5 – 1.5 tolerance ±0.03.

R₁ > 1.5 tolerance ±0.05.

Note:

NEW GENERATION AVAILABLE! Recommended successor product is No. 206261.

Technical description

Feed f _z for copy milling in short-chipping aluminium	0.08 mm
Overhang length L ₁ incl. recess	73 mm
Cutting edge Ø D _c	12 mm
Feed f _z for side milling in short-chipping aluminium	0.07 mm
Flute length L _c	19 mm
Shank Ø D _s	12 mm
Shank	DIN 6535 HA to h6
Overall length L	120 mm

Recess $\varnothing D_1$	11 mm
Balance quality with shank	G 2.5 with HA
Corner radius R_1	2 mm
No. of teeth Z	3
Helix angle	45 degrees
Coating	DLC
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Tolerance nominal \varnothing	h6
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	0.05×D for copy milling
Through-coolant	no
Shank tolerance	h6
Colour ring	yellow
Type of product	Torus cutter

User data

	Suitability	V_c	ISO code
Aluminium	suitable	280 m/min	N
Aluminium (short chipping)	suitable	260 m/min	N
Alu > 10% Si	suitable	240 m/min	N
PMMA acrylic	suitable	120 m/min	N
PE-HD	suitable	100 m/min	N
PA 66	suitable	120 m/min	N
PEEK	suitable	90 m/min	N
PF 31	suitable	80 m/min	N

PVDF GF20	suitable	110 m/min	N
POM GF25	suitable	100 m/min	N
PA 66 GF30	suitable	90 m/min	N
PEEK GF30	suitable	80 m/min	N
PTFE CF25	suitable	90 m/min	N
Honeycomb sandwich	suitable only under restricted conditions	180 m/min	N
Cu	suitable	100 m/min	N
CuZn	suitable	120 m/min	N
wet maximum	suitable		
wet minimum	suitable		
dry	suitable only under restricted conditions		
Air Services	Suitable		
Shank grinding Type HB			129100 HB