

Garant
Solid carbide torus cutter, Diamond, Ø e8 DC / R1: 12/1,5mm

Order data

Order number	209755 12/1,5
GTIN	4045197475404
Item class	10Y

Description
Version:

With the latest generation of **crystalline diamond coating sp³**, for process reliability in machining **fibre-reinforced composites, CRP, GRP and graphite**. Double relief ground side clearance angle.

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

Technical description

No. of teeth Z	4
Recess Ø D ₁	11 mm
Feed f _z for side milling in graphite	0.105 mm
Feed f _z for copy milling in graphite	0.105 mm
Overhang length L ₁ incl. recess	38 mm
Corner radius R ₁	1.5 mm
Cutting edge Ø D _c	12 mm
Shank Ø D _s	12 mm
Flute length L _c	12 mm
Overall length L	83 mm
Shank	DIN 6535 HA to h6
Helix angle	30 degrees
Coating	Diamond

Tool material	Solid carbide
Standard	Manufacturer's standard
Tolerance nominal \varnothing	e8
Spacing of the cutters	unequal spacing
Direction of infeed	horizontal, oblique and vertical
Cutting width a_e for milling operation	0.2×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	black
Type of product	Torus cutter

User data

	Suitability	V_c	ISO code
PVDF GF20	suitable	200 m/min	N
POM GF25	suitable	190 m/min	N
PA 66 GF30	suitable	170 m/min	N
PEEK GF30	suitable	150 m/min	N
PTFE CF25	suitable	180 m/min	N
PEEK CF30	suitable	160 m/min	N
Hybrids	suitable		
Honeycomb sandwich	suitable	350 m/min	N
GRP	suitable	190 m/min	N
GRP, CRP	suitable	190 m/min	N
Graphite	suitable	340 m/min	N
wet minimum	suitable		
dry	Suitable		
Air	suitable		

Services

Shank grinding Type HB

129100 HB