

GARANT Master Alu solid carbide milling cutter with more chip separators TPC, DLC, Ø h6 DC: 6mm



Order data

Order number	2031146		
GTIN	4062406249632		
Item class	11X		

Description

Version:

Specially designed for TPC high-performance milling. **Optimised bending strength** due to the use of ultra-fine grain substrates. **1**×**D** chip separator for controlled chip breaking.

Balanced for very high process reliability and protecting the machine at high speeds.

Application:

Especially for milling aluminium and non-ferrous metals.

Note:

h_{max}: The values stated in the table are maximum values.

 $ae_{max} = 0.12 \times D$ for TPC machining.

Successor product for No. 202281, 202282.

Technical description

No. of teeth Z	4		
Flute length L _c	25 mm		
Balance quality with shank	G 2.5 with HA		
Shank	DIN 6535 HA to h6		
Recess Ø D ₁	5.5 mm		
Direction of infeed	horizontal and oblique		
Overhang length L₁ incl. recess	30 mm		
Shank form	HA		

Average chip thickness h_{max} for TPC milling in short-chipping aluminium	0.039 mm		
Shank Ø D _s	6 mm		
Overall length L	70 mm		
Cutting edge Ø D _c	6 mm		
Helix angle	38 degrees		
Tolerance nominal Ø	h6		
Corner rounding r _v	0.05 mm		
Series	Master Alu		
Coating	DLC		
Tool material	Solid carbide		
Standard	Manufacturer's standard		
Туре	W		
Spacing of the cutters	unequal spacing		
Cutting width a _e for milling operation	0.12×D		
Through-coolant	no		
Machining strategy	TPC		
Colour ring	yellow		
Type of product	End / face mill		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Aluminium	Suitable	500 m/min	N
Aluminium (short chipping)	Suitable	450 m/min	N
Alu > 10% Si	suitable	400 m/min	N
PMMA acrylic	Suitable	180 m/min	N
PE-HD	Suitable	140 m/min	N
PA 66	Suitable	180 m/min	N



PEEK	suitable	130 m/min	N
PF 31	Suitable	110 m/min	N
PVDF GF20	Suitable	160 m/min	N
POM GF25	Suitable	140 m/min	N
PA 66 GF30	Suitable	120 m/min	N
PEEK GF30	Suitable	140 m/min	N
PTFE CF25	Suitable	260 m/min	N
Honeycomb sandwich	suitable only under restricted conditions	260 m/min	N
Cu	Suitable	140 m/min	N
CuZn	Suitable	120 m/min	N
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable		
Air Services	suitable		

Shank grinding Type HB 129100 HB