

GARANT Master Alu solid carbide milling cutter with more chip separators TPC, DLC, \varnothing h6 DC: 10mm



Order data

Order number	203113 10	
GTIN	4062406245771	
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.

 $ae_{max} = 0.15 \times D$ for TPC machining.

Technical description

Overhang length L_1 incl. recess	35 mm		
Shank	DIN 6535 HB to h6		
Overall length L	80 mm		
Tolerance nominal Ø	h6		
Direction of infeed	horizontal and oblique		
Recess Ø D ₁	9.5 mm		
Shank Ø D _s	10 mm		
Balance quality with shank	G 2.5 with HB		
Flute length L _c	30 mm		

Cutting edge \emptyset D _c	10 mm		
Helix angle	38 degrees		
Shank form	НВ		
No. of teeth Z	4		
Average chip thickness h_{max} for TPC milling in short-chipping aluminium	0.071 mm		
Corner rounding r _v	0.1 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	0.15×D		
Through-coolant	no		
Machining strategy	TPC		
Colour ring	yellow		
Type of product	End / face mill		

User data

	Suitability	V _c	ISO code
Aluminium	Suitable	550 m/min	N
Aluminium (short chipping)	suitable	500 m/min	N
Alu > 10% Si	Suitable	450 m/min	N
PMMA acrylic	Suitable	200 m/min	N
PE-HD	Suitable	160 m/min	N
PA 66	Suitable	200 m/min	N
PEEK	Suitable	150 m/min	N

PF 31	Suitable	130 m/min	N
PVDF GF20	Suitable	180 m/min	N
POM GF25	Suitable	160 m/min	N
PA 66 GF30	Suitable	150 m/min	N
PEEK GF30	Suitable	130 m/min	N
PTFE CF25	Suitable	160 m/min	N
Honeycomb sandwich	suitable only under restricted conditions	300 m/min	N
Cu	Suitable	160 m/min	N
CuZn	suitable	200 m/min	N
wet maximum	Suitable		
wet minimum	Suitable only under restricted conditions		
dry	suitable		
Air	Suitable		