

GARANT Master Alu PickPocket solid carbide roughing end mill with throughcoolant HPC, DLC, Ø e6 DC: 12mm



Order data

Order number	202019 12
GTIN	4062406381110
Item class	11X

Description

Version:

For roughing and finishing.

Up to 2×D into solid material at very high feed rates and smooth cutting action.

Very high feed rates when plunging vertically.

Ramping capability up to 45°.

Improved chip evacuation due to central through-coolant.

Very long overhang for safe machining of deep cavities.

With the latest generation of DLC coating sp².

Advantage:

Optimised flute form, eccentric relief ground, generous chip spaces.

Note:

A minimum oversize of 0.1×D must be maintained for subsequent finishing operations.

Technical description

Cutting edge \emptyset D _c	12 mm	
Overall length L	120 mm	
Helix angle	42 degrees	
Feed f_z for side milling in short-chipping aluminium	0.08 mm	
Flute length L _c	19 mm	
calance quality with shank G 2.5 with HA		
Direction of infeed	horizontal, oblique and vertical	

Tolerance nominal \varnothing	e8		
Recess Ø D ₁	11 mm		
Shank Ø D _s	12 mm		
Shank	DIN 6535 HA to h6		
No. of teeth Z	3		
Feed f _z for slot milling in short-chipping aluminium	0.06 mm		
Corner rounding r _v	0.2 mm		
Overhang length L₁ incl. recess	73 mm		
Series	Master Alu		
Coating	DLC		
Tool material	Solid carbide		
Standard	Manufacturer's standard		
Туре	W		
Helix angle characteristic	unequal spacing		
Spacing of the cutters	unequal spacing		
Cutting width a _e for milling operation	0.3×D for side milling		
Through-coolant	no		
Machining strategy	HPC		
Colour ring	yellow		
Type of product	End / face mill		

User data

	Suitability	V _c	ISO code
Aluminium	Suitable	380 m/min	N
Aluminium (short chipping)	Suitable	300 m/min	N
Alu > 10% Si	suitable	270 m/min	N
PMMA acrylic	suitable	180 m/min	N
PE-HD	Suitable	130 m/min	N



PA 66	Suitable	150 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	150 m/min	N
PA 66 GF30	Suitable	140 m/min	N
PEEK GF30	suitable	120 m/min	N
PTFE CF25	suitable	150 m/min	N
Honeycomb sandwich	suitable only under restricted conditions	220 m/min	N
Cu	Suitable	140 m/min	N
CuZn	Suitable	160 m/min	N
wet maximum	suitable		
Air Services	Suitable		

Shank grinding Type HB 129100 HB