# GARANT Master Alu solid carbide finishing cutter HPC, uncoated, Ø h6 DC: 12mm



### **Order data**

Order number	203215 12		
GTIN	4067263100447		
Item class	11X		

## **Description**

#### **Version:**

**For fine finishing operations.** Cutter geometry optimised for low infeeds and excellent surfaces. Unequal spacing gives high intrinsic stability and smooth cutting action.

### **Application:**

For profile milling as a finishing operation.

#### Note

Optimal production results in conjunction with the GARANT HiRunER precision ER collet chuck, GARANT Master Chuck hydraulic chuck and heavy-duty chuck.

## **Technical description**

Flute length L <sub>c</sub>	63 mm		
Direction of infeed	horizontal		
Corner chamfer angle	90 degrees		
Balance quality with shank	G 2.5 with HA		
Overall length L	119 mm		
Cutting edge $\varnothing$ $D_c$	12 mm		
No. of teeth Z	7		
Helix angle	40 degrees		
Shank Ø D <sub>s</sub>	12 mm		
Recess Ø D <sub>1</sub>	11.5 mm		



Overhang length L <sub>1</sub> incl. recess	68 mm	
Tolerance nominal Ø	h6	
Feed f <sub>z</sub> for side milling in short-chipping aluminium	0.03 mm	
Shank	DIN 6535 HA to h6	
Series	Master Alu	
Coating	uncoated	
Tool material	Solid carbide	
Standard	Works standard	
Туре	W	
Helix angle characteristic	unequal spacing	
Spacing of the cutters	unequal spacing	
Milling application	Mono milling tools high-precision 90°	
Cutting width a <sub>e</sub> for milling operation	0.015×D for side milling	
Through-coolant	no	
Machining strategy	HPC	
Colour ring	yellow	
Type of product	End / face mill	

## **User data**

	Suitability	<b>V</b> <sub>c</sub>	ISO code
Alu plastics	suitable	380 m/min	N
Aluminium (short chipping)	suitable	360 m/min	N
Alu > 10% Si	suitable only under restricted conditions	320 m/min	N
PMMA acrylic	suitable	260 m/min	N
PE-HD	suitable	220 m/min	N
PA 66	suitable	250 m/min	N
PEEK	suitable	220 m/min	N

PF 31	suitable	200 m/min	N
Cu	suitable only under restricted conditions	160 m/min	N
CuZn	suitable	220 m/min	N
wet maximum	suitable		
wet minimum	suitable		
<del>Air</del> Services	<del>suitable</del>		

Shank grinding Type HB

129100 HB