

# GARANT Master Alu SlotMachine solid carbide roughing end mill HPC, DLC, Ø e8 DC: 20mm



#### **Order data**

Order number	205265 20
GTIN	4062406122607
Item class	11X

## **Description**

#### **Version:**

For roughing.

Special profile for machining non-ferrous metals.

#### **Advantage:**

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

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

Ramping capability up to 45°.

Very high feed rates when plunging vertically, thanks to **special plunging geometry**.

# **Technical description**

Shank Ø D₅	20 mm		
Overhang length L₁ incl. recess	74 mm		
Recess Ø D <sub>1</sub>	19 mm		
Feed $f_z$ for slot milling in short-chipping aluminium	0.25 mm		
Overall length L	126 mm		
Shank	DIN 6535 HB to h6		
Tolerance nominal Ø	e8		
Cutting edge Ø D <sub>c</sub>	20 mm		
Direction of infeed	horizontal, oblique and vertical		
Flute length L <sub>c</sub>	60 mm		

Helix angle	35 degrees		
Balance quality with shank	G 2.5 with HB		
No. of teeth Z	4		
Feed $f_z$ for side milling in short-chipping aluminium	0.28 mm		
Corner rounding r <sub>v</sub>	0.5 mm		
Series	Master Alu		
Coating	DLC		
Tool material	Solid carbide		
Standard	Manufacturer's standard		
Milling profile	WR		
Helix angle characteristic	unequal spacing		
Spacing of the cutters	unequal spacing		
Cutting width a <sub>e</sub> for milling operation	0.5×D for side milling		
Cutting width a <sub>e</sub> for milling operation	Full slot cutting depth 1×D		
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
Aluminium	Suitable	450 m/min	N
Aluminium (short chipping)	suitable	400 m/min	N
Alu > 10% Si	suitable	380 m/min	N
PA 66	suitable only under restricted conditions	120 m/min	N
PEEK	suitable only under restricted conditions	100 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 only under restricted conditions		
Air Services	suitable		

Shank grinding Type HB

129100 HB