

GARANT Master Alu SlotMachine solid carbide roughing end mill with through-coolant HPC, DLC, Ø e8 DC: 12mm



Order data

Order number	205256 12
GTIN	4062406276973
Item class	11X

Description

Version:

For roughing.

Special profile for machining non-ferrous metals.

Improved chip evacuation due to central through-coolant. Due to the patented geometry also suitable for boring.

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

Tolerance nominal Ø	e8	
Overhang length L₁ incl. recess	36 mm	
Flute length L _c	26 mm	
Feed f _z for side milling in short-chipping aluminium	0.18 mm	
Balance quality with shank	G 2.5 with HB	
Direction of infeed	horizontal, oblique and vertical	
Recess Ø D ₁	11 mm	
Cutting edge Ø D _c	12 mm	

Overall length L	83 mm	
Shank Ø D _s	12 mm	
Helix angle	35 degrees	
Shank	DIN 6535 HB to h6	
No. of teeth Z	3	
Feed f_z for slot milling in short-chipping aluminium	0.15 mm	
Corner rounding r _v	0.32 mm	
Series	Master Alu	
Coating	DLC	
Tool material	Solid carbide	
Standard	DIN 6527	
Milling profile	WR	
Helix angle characteristic	unequal spacing	
Spacing of the cutters	unequal spacing	
Cutting width a _e for milling operation	Full slot cutting depth 1×D	
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Through-coolant	yes	
Machining strategy	HPC	
Colour ring	yellow	
Type of product	End / face mill	

User data

	Suitability	V _c	ISO code
Aluminium	Suitable	450 m/min	N
Aluminium (short chipping)	suitable	400 m/min	N
Alu > 10% Si	suitable	380 m/min	N
Cu	Suitable	160 m/min	N
CuZn	Suitable	200 m/min	N

Data sheet

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wet maximum	suitable	
Air Services	suitable	

Shank grinding Type HB 129100 HB