

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



Order data

Order number	205250 12
GTIN	4062406122249
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

Flute length L _c	26 mm	
Shank Ø D _s	12 mm	
Cutting edge Ø D _C	12 mm	
Balance quality with shank	G 2.5 with HA	
Overall length L	83 mm	
Feed f _z for side milling in short-chipping aluminium	0.18 mm	
Helix angle	35 degrees	
No. of teeth Z	3	
Tolerance nominal Ø	e8	

Feed f_z for slot milling in short-chipping aluminium	0.15 mm		
Recess Ø D ₁	11 mm		
Shank	DIN 6535 HA to h6		
Overhang length L ₁ incl. recess	36 mm		
Direction of infeed	horizontal, oblique and vertical		
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	0.4×D for side milling		
Cutting width a _e for milling operation	Full slot cutting depth 1×D		
Through-coolant	no		
Machining strategy	HPC		
Colour ring	yellow		
ype of product End / face mill			

User data

	Suitability	\mathbf{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
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