Garant

GARANT Master Alu SlotMachine solid carbide roughing end mill HPC, DLC, Ø e8 DC: 18mm



Order data

Order number	205266 18
GTIN	4067263130512
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

Cutting edge $Ø D_c$	18 mm		
Recess Ø D ₁	17 mm		
Shank Ø D _s	18 mm		
Direction of infeed	horizontal, oblique and vertical		
No. of teeth Z	4		
Flute length L _c	54 mm		
Shank	DIN 6535 HB to h6		
Corner rounding r _v	0.32 mm		
Balance quality with shank	G 2.5 with HB		
Overhang length L ₁ incl. recess	67 mm		

Overall length L	117 mm		
Tolerance nominal Ø	e8		
Helix angle	35 degrees		
Feed f_z for side milling in short-chipping aluminium	0.25 mm		
Feed f_z for slot milling in short-chipping aluminium	0.22 mm		
Series	Master Alu		
Coating	DLC		
Tool material	Solid carbide		
Standard	Works standard		
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		
Cutting width a_e for milling operation	0.5×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	450 m/min	Ν
Aluminium (short chipping)	suitable	400 m/min	Ν
Alu > 10% Si	suitable	380 m/min	Ν
PA 66	suitable only under restricted conditions	120 m/min	Ν
РЕЕК	suitable only under restricted conditions	100 m/min	Ν
Cu	suitable	160 m/min	Ν

CuZn	suitable	200 m/min	Ν
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		
Air	suitable		