Garant

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



Order data

Order number	205251 20
GTIN	4067263130444
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

Direction of infeed	horizontal, oblique and vertical		
Balance quality with shank	G 2.5 with HB		
Tolerance nominal Ø	e8		
Cutting edge $Ø D_c$	20 mm		
No. of teeth Z	4		
Helix angle	35 degrees		
Feed f_z for slot milling in short-chipping aluminium	0.25 mm		
Overhang length L ₁ incl. recess	52 mm		
Feed f_z for side milling in short-chipping aluminium	0.28 mm		
Overall length L	104 mm		

Corner rounding r_v	0.5 mm		
Shank Ø D _s	20 mm		
Flute length L _c	41 mm		
Shank	DIN 6535 HB to h6		
Recess Ø D ₁	19 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		
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
PEEK	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		