

Garant

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



Order data

Order number	205256 20
GTIN	4062406277017
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

No. of teeth Z	4
Tolerance nominal Ø	e8
Feed f_z for side milling in short-chipping aluminium	0.28 mm
Direction of infeed	horizontal, oblique and vertical
Helix angle	35 degrees
Cutting edge Ø D_c	20 mm
Shank Ø D_s	20 mm
Shank	DIN 6535 HB to h6

Overall length L	104 mm
Balance quality with shank	G 2.5 with HB
Recess $\varnothing D_1$	19 mm
Overhang length L_1 incl. recess	52 mm
Flute length L_c	41 mm
Feed f_z for slot milling in short-chipping aluminium	0.25 mm
Corner rounding r_v	0.5 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 $1 \times D$
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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

wet maximum	suitable
Air	suitable
Services	

Shank grinding Type HB	129100 HB
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