

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



Order data

Order number	205255 20
GTIN	4062406122423
Item class	11X

Description

Version:

For roughing.

Special profile for machining non-ferrous metals.

Improved chip evacuation due to central through-coolant.

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**.

Note:

For **HB** shanks use order **No. 205256**.

Tolerance nominal Ø: e8

No. of teeth Z: 4 Helix angle: 35°

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 4 Flute length L_s: 41 mm

Overhang length L₁ incl. recess: 52 mm

Recess \emptyset D₁: 19 mm Overall length L: 104 mm Shank \emptyset D₅: 20 mm

Technical description

Feed f_z for slot milling in short-chipping aluminium	0.25 mm	
Feed f _z for side milling in short-chipping aluminium	0.28 mm	
Flute length L _c	41 mm	
No. of teeth Z	4	
Shank	DIN 6535 HA to h6	
Helix angle	35 °	
Shank Ø D _s	20 mm	
Tolerance nominal Ø	e8	
Overhang length L₁ incl. recess	52 mm	
Cutting edge Ø D _c	20 mm	
Recess Ø D ₁	19 mm	
Direction of infeed	horizontal, oblique and vertical	
Overall length L	104 mm	
Balance quality with shank	G 2.5 with HA	
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×D	
Cutting width a _e for milling operation	Full slot cutting depth 1×D	
Through-coolant	yes	
Machining strategy	HPC	
Colour ring	yellow	
Type 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		
Air	suitable		

Services

Shank grinding Type HB	129100 HB
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