

Garant

GARANT Master Alu PickPocket solid carbide roughing end mill with through-coolant HPC, DLC, Ø e8 DC: 12mm



Order data

Order number	202006 12
GTIN	4062406126193
Item class	11X

Description

Version:

For roughing and finishing.

Up to $2 \times D$ into solid material at very high feed rates and smooth cutting action.

Very high feed rates when plunging vertically.

Ramping capability up to 45° .

Improved chip evacuation due to central through-coolant. Due to the patented geometry also suitable for boring.

With the latest generation of DLC coating sp^2 .

Advantage:

Optimised flute form, eccentric relief ground, generous chip spaces.

Technical description

Balance quality with shank	G 2.5 with HA
Shank Ø D_s	12 mm
Shank	DIN 6535 HA to h6
No. of teeth Z	3
Overhang length L_1 incl. recess	36 mm
Tolerance nominal Ø	e8
Helix angle	42 degrees
Cutting edge Ø D_c	12 mm

Flute length L_c	26 mm
Feed f_z for side milling in short-chipping aluminium	0.15 mm
Direction of infeed	horizontal, oblique and vertical
Recess $\varnothing D_1$	11.8 mm
Overall length L	83 mm
Feed f_z for slot milling in short-chipping aluminium	0.1 mm
Corner rounding r_v	0.32 mm
Series	Master Alu
Coating	DLC
Tool material	Solid carbide
Standard	DIN 6527
Type	W
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	550 m/min	N
Aluminium (short chipping)	suitable	500 m/min	N
Alu > 10% Si	suitable	450 m/min	N
PMMA acrylic	Suitable	200 m/min	N
PE-HD	Suitable	160 m/min	N

PA 66	Suitable	200 m/min	N
PEEK	Suitable	150 m/min	N
PF 31	Suitable	130 m/min	N
PVDF GF20	Suitable	180 m/min	N
POM GF25	Suitable	160 m/min	N
PA 66 GF30	Suitable	150 m/min	N
PEEK GF30	Suitable	130 m/min	N
PTFE CF25	Suitable	160 m/min	N
Honeycomb sandwich	suitable only under restricted conditions	300 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