

Garant

GARANT Master Alu SlotMachine solid carbide roughing end mill HPC, DLC, Ø e8 DC: 12mm



Order data

Order number	205251 12
GTIN	4067263130406
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

No. of teeth Z	3
Helix angle	35 degrees
Direction of infeed	horizontal, oblique and vertical
Shank $\varnothing D_s$	12 mm
Balance quality with shank	G 2.5 with HB
Feed f_z for side milling in short-chipping aluminium	0.18 mm
Flute length L_c	26 mm
Tolerance nominal \varnothing	e8
Corner rounding r_v	0.32 mm
Feed f_z for slot milling in short-chipping aluminium	0.15 mm

Shank	DIN 6535 HB to h6
Recess $\varnothing D_1$	11 mm
Cutting edge $\varnothing D_c$	12 mm
Overall length L	83 mm
Overhang length L_1 incl. recess	36 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 $1 \times D$
Cutting width a_e for milling operation	$0.5 \times D$ 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	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		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		
Air	suitable		