Garant

GARANT Master Alu SlotMachine solid carbide roughing end mill with through-coolant HPC, DLC, ∅ e8 DC: 18 mm

Order data

Order number	205256 18
GTIN	4062406277000
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 × 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**.
Tolerance nominal ∅: e8
No. of teeth Z: 4
Helix angle: 35 degrees
Direction of infeed: horizontal, oblique and vertical
Shank: DIN 6535 HB to h6
Balance quality with shank: G 2.5 with HB
No. of teeth Z: 4
Flute length L_c: 31 mm
Overhang length L_1 incl. recess: 42 mm
Recess ∅ D_1: 17 mm
Overall length L: 92 mm
Shank ∅ D_s: 18 mm

Technical description

Overhang length L_1 incl. recess	42 mm
Feed f_z for slot milling in short-chipping aluminium	0.22 mm
Shank ⌀ D_s	18 mm
Balance quality with shank	G 2.5 with HB
Tolerance nominal ⌀	e8
Feed f_z for side milling in short-chipping aluminium	0.25 mm
Helix angle	35 degrees
Overall length L	92 mm
No. of teeth Z	4
Shank	DIN 6535 HB to h6
Cutting edge ⌀ D_C	18 mm
Direction of infeed	horizontal, oblique and vertical
Flute length L_c	31 mm
Recess ⌀ D_1	17 mm
Corner rounding r_v	0.32 mm
Series	GARANT 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
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Through-coolant	yes
Machining strategy	HPC
Colour ring	yellow
Type of product	End mill

Services

Shank grinding Type HB	129100 HB