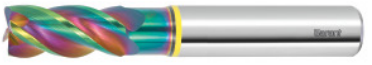
Garant

GARANT Master Alu solid carbide milling cutter HPC, DLC, ∅ DC: 16Mmm



Order data

Order number	202512 16M
GTIN	4062406238940
Item class	11X

Description

Version:
Extra sharp cutting edges.
Dimensions similar to DIN6527.
For roughing and finishing.Up to 2×D into solid material at very high feed rates and smooth cutting action.
With the latest generation of **DLC coating sp**^{2}.
Note:
Successor product to No. 202515.

Technical description

Recess ∅ D_1	15 mm
No. of teeth Z	4
Shank	DIN 6535 HA to h6
Feed f_z for slot milling in short-chipping aluminium	0.14 mm
Cutting edge ∅ D_C	16 mm
Helix angle	38 degrees
Overhang length L_1 incl. recess	58 mm
Tolerance nominal ∅	h6
Feed f_z for side milling in short-chipping aluminium	0.18 mm
Shank ∅ D_s	16 mm

Direction of infeed	horizontal, oblique and vertical
Flute length L_c	48 mm
Overall length L	110 mm
Corner chamfer angle	90 degrees
Series	Master Alu
Coating	DLC
Tool material	Solid carbide
Standard	DIN 6527
Type	W
Cutting width a_e for milling operation	Full slot cutting depth 1×D
Cutting width a_e for milling operation	0.25×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	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	300 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		

Services

Shank grinding Type HB	129100 HB