

GARANT Master Alu SlotMachine solid carbide roughing end mill TPC, DLC, Ø e8 DC: 20mm



Order data

Order number	205274 20
GTIN	4062406381301
Item class	11X

Description

Version:

For roughing.

Special profile for machining non-ferrous metals. Significant reduction in the chip volume due to targeted chip fragmentation using the **special cutter geometry.**

Problem-solver for **TPC machining.** Ideal for automated production as the risk of chip accumulations in the machine is largely prevented.

Note

For HB shanks use order no. 205276.

HB shanks are available at the same price as HA.

h_{max}: The values stated in the table are maximum values.

 ae_{max} is 0.15 \times D for TPC machining.

Technical description

Corner rounding r _v	0.5 mm	
Shank	DIN 6535 HA to h6	
Helix angle	35 degrees	
Direction of infeed	horizontal, oblique and vertical	
Recess Ø D ₁	19 mm	
Average chip thickness h_{max} for TPC milling in short-chipping aluminium	0.143 mm	
Overhang length L ₁ incl. recess	100 mm	

Balance quality with shank	G 2.5 with HA		
Flute length L _c	82 mm		
Tolerance nominal Ø	e8		
No. of teeth Z	4		
Shank Ø D _s	20 mm		
Overall length L	150 mm		
Cutting edge \emptyset D_{c}	20 mm		
Series	Master Alu		
Coating	DLC		
Tool material	Solid carbide		
Standard	Manufacturer's standard		
Milling profile	WR		
Helix angle characteristic	unequal spacing		
Spacing of the cutters	unequal spacing		
Cutting width a _e for milling operation	0.15×D		
Through-coolant	no		
Machining strategy	HPC		
Colour ring	yellow		
Type of product	End / face mill		

User data

	Suitability	\mathbf{V}_{c}	ISO code
Aluminium	Suitable	400 m/min	N
Aluminium (short chipping)	Suitable	360 m/min	N
Alu > 10% Si	suitable	340 m/min	N
PA 66	suitable only under restricted conditions	110 m/min	N
PEEK	suitable only under restricted conditions	90 m/min	N

Cu	Suitable	140 m/min	N
CuZn	Suitable	180 m/min	N
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		
Air	Suitable		