

**Garant**
**Solid carbide milling cutter MTC, uncoated, Ø DC: 3,5mm**

**Order data**

Order number	202243 3,5
GTIN	4045197654243
Item class	11X

**Description**
**Version:**

**Eccentric relief ground**, additionally **polish ground** in the flutes for **outstanding chip evacuation** in long-chipping aluminium workpieces.

Lengths similar to **DIN 6527 long**.

**Application:**

Especially for **MTC (Multi Task Cutting)** use on the new generation of turning / milling centres.

**Technical description**

Corner chamfer width at 45°	0.1 mm
Feed $f_z$ for side milling in short-chipping aluminium	0.01 mm
Shank form	HA
Feed $f_z$ for slot milling in short-chipping aluminium	0.008 mm
Overhang length $L_1$ incl. recess	17 mm
No. of teeth Z	3
Cutting edge $\varnothing D_c$	3.5 mm
Recess $\varnothing D_1$	3.2 mm
Shank $\varnothing D_s$	6 mm
Overall length L	57 mm
Flute length $L_c$	11 mm
Direction of infeed	horizontal, oblique and vertical

Shank	DIN 6535 HA to h6
Tolerance nominal $\varnothing$	h6
Balance quality with shank	G 2.5 with HA
Helix angle	45 degrees
Corner chamfer angle	45 degrees
Coating	uncoated
Tool material	Solid carbide
Standard	DIN 6527
Type	W
Helix angle characteristic	unequal spacing
Cutting width $a_e$ for milling operation	0.5×D for side milling
Cutting width $a_e$ for milling operation	Full slot cutting depth 1×D
Through-coolant	no
Machining strategy	MTC
Colour ring	yellow
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Aluminium	suitable	190 m/min	N
Aluminium (short chipping)	suitable	150 m/min	N
Alu > 10% Si	suitable	120 m/min	N
PMMA acrylic	suitable	180 m/min	N
PE-HD	Suitable	130 m/min	N
PA 66	Suitable	150 m/min	N
PEEK	suitable	130 m/min	N
PF 31	Suitable	110 m/min	N

Honeycomb sandwich	suitable only under restricted conditions	180 m/min	N
Cu	Suitable	120 m/min	N
CuZn	Suitable	150 m/min	N
wet maximum	suitable		
wet minimum	suitable		
dry	suitable only under restricted conditions		
Air	suitable only under restricted conditions		

**Services**

Shank grinding Type HB	129100 HB
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