

**Garant**
**GARANT Master Alu solid carbide milling cutter HPC, uncoated, Ø DC: 12 mm**

**Order data**

Order number	202470 12
GTIN	4062406245603
Item class	11X

**Description**
**Version:**
**Extra sharp cutting edges.**

Dimensions similar to DIN 6527.

Double relief ground side clearance angle.

For roughing and finishing. Up to 2×D into solid material at very high feed rates and smooth cutting action.

**Note:**
**Successor product to No. 202480.**

Tolerance nominal Ø: h6

No. of teeth Z: 4

Helix angle: 38 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h6

No. of teeth Z: 4

Flute length  $L_c$ : 28 mm

Overhang length  $L_1$  incl. recess: 33 mm

Recess Ø  $D_1$ : 11 mm

Overall length L: 83 mm

Shank Ø  $D_s$ : 12 mm

**Technical description**

Shank	DIN 6535 HA to h6
Overall length L	83 mm
Overhang length $L_1$ incl. recess	33 mm

Shank $\varnothing D_s$	12 mm
No. of teeth Z	4
Feed $f_z$ for side milling in short-chipping aluminium	0.15 mm
Cutting edge $\varnothing D_c$	12 mm
Tolerance nominal $\varnothing$	h6
Recess $\varnothing D_1$	11 mm
Helix angle	38 degrees
Flute length $L_c$	28 mm
Direction of infeed	horizontal, oblique and vertical
Feed $f_z$ for slot milling in short-chipping aluminium	0.1 mm
Corner chamfer angle	90 degrees
Series	GARANT Master Alu
Coating	uncoated
Tool material	Solid carbide
Standard	DIN 6527
Type	W
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Cutting width $a_e$ for milling operation	Full slot cutting depth $1 \times D$
Through-coolant	no
Machining strategy	HPC
Colour ring	yellow
Type of product	End mill

## Services

Shank recess Type FRST	209900 FRST
Shank clamping flats for shrink-fit chucks, with retainer function Shank $\varnothing$ tool 12 mm	SZ2025 12
Shank grinding Type HB	129100 HB

