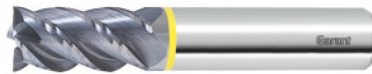


**Garant**
**Solid carbide milling cutter DIN 6535 HA, uncoated, Ø DC: 12mm**

**Order data**

Order number	202480 12
GTIN	4045197117144
Item class	11X

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

Dimensions similar to DIN 6527.

Double relief ground side clearance angle.

**Technical description**

Cutting edge Ø D <sub>c</sub>	12 mm
Recess Ø D <sub>1</sub>	11.8 mm
No. of teeth Z	4
Feed f <sub>z</sub> for side milling in short-chipping aluminium	0.07 mm
Overhang length L <sub>1</sub> incl. recess	33 mm
Feed f <sub>z</sub> for slot milling in short-chipping aluminium	0.05 mm
Shank Ø D <sub>s</sub>	12 mm
Overall length L	83 mm
Flute length L <sub>c</sub>	28 mm
Direction of infeed	horizontal, oblique and vertical
Shank	DIN 6535 HA to h6
Tolerance nominal Ø	h6
Helix angle	38 degrees

Corner chamfer angle	90 degrees
Coating	uncoated
Tool material	Solid carbide
Standard	DIN 6527
Type	W
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
Colour ring	yellow
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Aluminium	Suitable	180 m/min	N
Aluminium (short chipping)	suitable	140 m/min	N
Alu > 10% Si	suitable	105 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	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 <b>Services</b>	suitable only under restricted conditions
Shank grinding Type HB	129100 HB