

# GARANT Master Alu solid carbide milling cutter DIN 6535 HA, DLC, Ø DC: 1 mm



#### **Order data**

Order number	201260 1
GTIN	4062406281137
Item class	11X

## **Description**

#### **Version:**

Stronger cutting edges.

Dimensions similar to DIN 6527.

With the latest generation of **DLC coating sp** $^2$ .

#### **Advantage:**

Very smooth cutting action foroutstanding surface quality.

#### Note:

Also suitable for plastics. Through-coolant: no

Tolerance nominal Ø: e6

No. of teeth Z: 2

Helix angle: 38 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 2 Flute length  $L_c$ : 5 mm

Overhang length L<sub>1</sub> incl. recess: 10 mm

Recess  $\varnothing$  D<sub>1</sub>: 0.9 mm Overall length L: 57 mm Shank  $\varnothing$  D<sub>5</sub>: 6 mm

### **Technical description**

Feed  $f_z$  for slot milling in short-chipping aluminium 0.03 mm

Helix angle Overhang length L₁ incl. recess 10 mm Feed f₂ for side milling in short-chipping aluminium Shank DIN 6535 HA to h6 No. of teeth Z 2 Flute length L₂ Flute length L₂ Flute length L₂ Flute length L S7 mm Recess Ø D₁ Overall length L Cutting edge Ø D₂ I mm  Overall shank Ø D₃ For mired Direction of infeed Shank Ø D₃ For me Corner chamfer angle For me Corner chamfer angle For me For	Balance quality with shank	G 2.5 with HA
Feed f₂ for side milling in short-chipping aluminium  Shank  No. of teeth Z  2  Flute length L₂  Recess Ø D₁  Overall length L  Cutting edge Ø D₂  Direction of infeed  Shank Ø D₃  Corner chamfer angle  Tolerance nominal Ø  Series  GARANT Master Alu  Coating  DLC  Tool material  Standard  DIN 6527  Type  W  Cutting width a₂ for milling operation  Colour ring  Colour ring  Colour ring  DIN 6527  Full slot cutting depth 1×D  Through-coolant  No. of teeth Z  2  2  2  2  2  3  3  4  5  5  5  5  6  7  7  7  8  Consider and	Helix angle	38 degrees
Shank       DIN 6535 HA to h6         No. of teeth Z       2         Flute length L₀       5 mm         Recess Ø D₁       0.9 mm         Overall length L       57 mm         Cutting edge Ø D₀       1 mm         Direction of infeed       horizontal, oblique and vertical         Shank Ø D₃       6 mm         Corner chamfer angle       90 degrees         Tolerance nominal Ø       e6         Series       GARANT Master Alu         Coating       DLC         Tool material       Solid carbide         Standard       DIN 6527         Type       W         Cutting width a₀ for milling operation       0.5×D for side milling         Cutting width a₀ for milling operation       Full slot cutting depth 1×D         Through-coolant       no         Colour ring       yellow	Overhang length L <sub>1</sub> incl. recess	10 mm
No. of teeth Z  Flute length L <sub>c</sub> Flute length L <sub>c</sub> Recess Ø D₁  Overall length L  Cutting edge Ø D <sub>c</sub> 1 mm  Direction of infeed  Shank Ø D₅  Corner chamfer angle  Tolerance nominal Ø  Series  GARANT Master Alu  Coating  DLC  Tool material  Standard  DIN 6527  Type  W  Cutting width a₅ for milling operation  Colour ring  Colour ring  Solid carbing for milling operation  Full slot cutting depth 1×D  Through-coolant  no  Oslour ring  Solid carbing  Full slot cutting depth 1×D	Feed f <sub>z</sub> for side milling in short-chipping aluminium	0.04 mm
Flute length $L_c$ 5 mm  Recess $\varnothing$ $D_1$ 0.9 mm  Overall length $L$ 57 mm  Cutting edge $\varnothing$ $D_c$ 1 mm  Direction of infeed horizontal, oblique and vertical Shank $\varnothing$ $D_s$ 6 mm  Corner chamfer angle 90 degrees  Tolerance nominal $\varnothing$ e6  Series GARANT Master Alu  Coating DLC  Tool material Solid carbide  Standard DIN 6527  Type W  Cutting width $a_c$ for milling operation $0.5 \times D$ for side milling  Cutting width $a_c$ for milling operation Full slot cutting depth $1 \times D$ Through-coolant no	Shank	DIN 6535 HA to h6
Recess $\varnothing$ D10.9 mmOverall length L57 mmCutting edge $\varnothing$ Dc1 mmDirection of infeedhorizontal, oblique and verticalShank $\varnothing$ Ds6 mmCorner chamfer angle90 degreesTolerance nominal $\varnothing$ e6SeriesGARANT Master AluCoatingDLCTool materialSolid carbideStandardDIN 6527TypeWCutting width ae for milling operation0.5×D for side millingCutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoColour ringyellow	No. of teeth Z	2
Overall length L  Cutting edge Ø Dc  1 mm  Direction of infeed  horizontal, oblique and vertical  Shank Ø D₅  6 mm  Corner chamfer angle  90 degrees  Tolerance nominal Ø  e6  Series  GARANT Master Alu  Coating  DLC  Tool material  Solid carbide  Standard  DIN 6527  Type  W  Cutting width a₅ for milling operation  Cutting width a₅ for milling operation  Through-coolant  no  Colour ring  yellow	Flute length L <sub>c</sub>	5 mm
Cutting edge Ø Dc       1 mm         Direction of infeed       horizontal, oblique and vertical         Shank Ø Ds       6 mm         Corner chamfer angle       90 degrees         Tolerance nominal Ø       e6         Series       GARANT Master Alu         Coating       DLC         Tool material       Solid carbide         Standard       DIN 6527         Type       W         Cutting width ae for milling operation       0.5×D for side milling         Cutting width ae for milling operation       Full slot cutting depth 1×D         Through-coolant       no         Colour ring       yellow	Recess Ø D <sub>1</sub>	0.9 mm
Direction of infeedhorizontal, oblique and vertical $Shank \varnothing D_s$ 6 mm $Corner chamfer angle$ 90 degrees $Tolerance nominal \varnothing$ e6 $Series$ $GARANT Master Alu$ $Coating$ $DLC$ $Tool material$ $Solid carbide$ $Standard$ $DIN 6527$ $Type$ $W$ $Cutting width a_e for milling operation0.5 \times D for side millingCutting width a_e for milling operationFull slot cutting depth 1 \times DThrough-coolantnoColour ringyellow$	Overall length L	57 mm
Shank Ø D₅       6 mm         Corner chamfer angle       90 degrees         Tolerance nominal Ø       e6         Series       GARANT Master Alu         Coating       DLC         Tool material       Solid carbide         Standard       DIN 6527         Type       W         Cutting width ae for milling operation       0.5×D for side milling         Cutting width ae for milling operation       Full slot cutting depth 1×D         Through-coolant       no         Colour ring       yellow	Cutting edge Ø D <sub>c</sub>	1 mm
Corner chamfer angle       90 degrees         Tolerance nominal Ø       e6         Series       GARANT Master Alu         Coating       DLC         Tool material       Solid carbide         Standard       DIN 6527         Type       W         Cutting width ae for milling operation       0.5×D for side milling         Cutting width ae for milling operation       Full slot cutting depth 1×D         Through-coolant       no         Colour ring       yellow	Direction of infeed	horizontal, oblique and vertical
Tolerance nominal Ø e6  Series GARANT Master Alu  Coating DLC  Tool material Solid carbide  Standard DIN 6527  Type W  Cutting width ae for milling operation 0.5×D for side milling  Cutting width ae for milling operation Full slot cutting depth 1×D  Through-coolant no  Colour ring yellow	Shank Ø D <sub>s</sub>	6 mm
SeriesGARANT Master AluCoatingDLCTool materialSolid carbideStandardDIN 6527TypeWCutting width $a_e$ for milling operation $0.5 \times D$ for side millingCutting width $a_e$ for milling operationFull slot cutting depth $1 \times D$ Through-coolantnoColour ringyellow	Corner chamfer angle	90 degrees
$ \begin{array}{ccc} \text{Coating} & \text{DLC} \\ \text{Tool material} & \text{Solid carbide} \\ \text{Standard} & \text{DIN 6527} \\ \text{Type} & \text{W} \\ \text{Cutting width $a_e$ for milling operation} & \text{0.5}\times\text{D for side milling} \\ \text{Cutting width $a_e$ for milling operation} & \text{Full slot cutting depth 1}\times\text{D} \\ \text{Through-coolant} & \text{no} \\ \text{Colour ring} & \text{yellow} \\ \end{array} $	Tolerance nominal Ø	е6
Tool material  Solid carbide  Standard  DIN 6527  Type  W  Cutting width a <sub>e</sub> for milling operation  Cutting width a <sub>e</sub> for milling operation  Full slot cutting depth 1×D  Through-coolant  no  Colour ring  yellow	Series	GARANT Master Alu
$\begin{array}{ccc} \text{Standard} & \text{DIN 6527} \\ \text{Type} & \text{W} \\ \text{Cutting width $a_e$ for milling operation} & \text{0.5}\times\text{D for side milling} \\ \text{Cutting width $a_e$ for milling operation} & \text{Full slot cutting depth 1}\times\text{D} \\ \text{Through-coolant} & \text{no} \\ \text{Colour ring} & \text{yellow} \\ \end{array}$	Coating	DLC
Type $$W$$ Cutting width $a_e$ for milling operation $0.5\times D$ for side milling Cutting width $a_e$ for milling operation Full slot cutting depth $1\times D$ Through-coolant no Colour ring yellow	Tool material	Solid carbide
Cutting width $a_e$ for milling operation $0.5 \times D$ for side millingCutting width $a_e$ for milling operationFull slot cutting depth $1 \times D$ Through-coolantnoColour ringyellow	Standard	DIN 6527
Cutting width $a_e$ for milling operationFull slot cutting depth $1 \times D$ Through-coolantnoColour ringyellow	Туре	W
Through-coolant no Colour ring yellow	Cutting width a <sub>e</sub> for milling operation	0.5×D for side milling
Colour ring yellow	Cutting width a <sub>e</sub> for milling operation	Full slot cutting depth 1×D
	Through-coolant	no
Type of product End mill	Colour ring	yellow
	Type of product	End mill