

### Solid carbide torus cutter, DLC, Ø h6 DC / R1: 6/0,5 mm



### Order data

Order number	206250 6/0,5
GTIN	4045197860422
Item class	11X

### **Description**

#### **Version:**

Dimensions to manufacturer's standard.

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

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

**Tolerances:** 

Corner radius

 $R_1 = 0.5 \text{ tolerance } \pm 0.02.$ 

 $R_1 > 0.5 - 1.5$  tolerance  $\pm 0.03$ .

 $R_1 > 1.5$  tolerance ±0.05.

#### Note:

#### **NEW GENERATION AVAILABLE! Recommended successor product is No. 206261.**

No. of teeth Z: 3

Helix angle: 45 degrees Shank: DIN 6535 HA to h6

Balance quality with shank: G 2.5 with HA

No. of teeth Z: 3 Flute length L<sub>c</sub>: 10 mm Corner radius R<sub>1</sub>: 0.5 mm

Overhang length L<sub>1</sub> incl. recess: 42 mm

Recess Ø D<sub>1</sub>: 5.7 mm Overall length L: 80 mm

## **Technical description**

Shank Ø D <sub>s</sub>	6 mm
Cutting edge Ø D <sub>c</sub>	6 mm



Shank       DIN 6535 HA to h6         Overall length L       80 mm         Recess Ø D₁       5.7 mm         Feed f₂ for side milling in short-chipping aluminium       0.03 mm         Corner radius R₁       0.5 mm         Overhang length L₁ incl. recess       42 mm         Flute length L₂       10 mm         No. of teeth Z       3         Feed f₂ for copy milling in short-chipping aluminium       0.03 mm         Helix angle       45 degrees         Coating       DLC         Tool material       Solid carbide         Standard       Manufacturer's standard         Type       W         Tolerance nominal Ø       h6         Direction of infeed       horizontal, oblique and vertical         Cutting width a₂ for milling operation       0.3×D for side milling         Cutting width a₂ for milling operation       0.05×D for copy milling         Through-coolant       no         Shank tolerance       h6         Colour ring       yellow         Type of product       End mill	Balance quality with shank	G 2.5 with HA
Recess $\varnothing$ D <sub>1</sub> 5.7 mm  Feed f <sub>z</sub> for side milling in short-chipping aluminium  Corner radius R <sub>1</sub> 0.5 mm  Overhang length L <sub>1</sub> incl. recess  42 mm  Flute length L <sub>2</sub> 10 mm  No. of teeth Z 3  Feed f <sub>z</sub> for copy milling in short-chipping aluminium  Helix angle 45 degrees  Coating DLC  Tool material Solid carbide  Standard Manufacturer's standard  Type W  Tolerance nominal $\varnothing$ h6  Direction of infeed horizontal, oblique and vertical  Cutting width a <sub>e</sub> for milling operation 0.3×D for side milling  Cutting width a <sub>e</sub> for milling operation no  Shank tolerance h6  Colour ring yellow	Shank	DIN 6535 HA to h6
Feed $f_z$ for side milling in short-chipping aluminium  Corner radius $R_1$ Overhang length $L_1$ incl. recess  42 mm  Flute length $L_c$ 10 mm  No. of teeth $Z$ 3  Feed $f_z$ for copy milling in short-chipping aluminium  Helix angle  Coating  DLC  Tool material  Solid carbide  Standard  Manufacturer's standard  Type  W  Tolerance nominal $\varnothing$ Direction of infeed  Cutting width $a_c$ for milling operation  Cutting width $a_c$ for milling operation  Cutting width $a_c$ for milling operation  Shank tolerance  Colour ring  yellow	Overall length L	80 mm
Corner radius R₁ 0.5 mm  Overhang length L₁ incl. recess 42 mm  Flute length L₂ 10 mm  No. of teeth Z 3  Feed f₂ for copy milling in short-chipping aluminium 0.03 mm  Helix angle 45 degrees  Coating DLC  Tool material Solid carbide  Standard Manufacturer's standard  Type W  Tolerance nominal Ø h6  Direction of infeed horizontal, oblique and vertical  Cutting width a₂ for milling operation 0.3×D for side milling  Cutting width a₂ for milling operation 0.05×D for copy milling  Through-coolant no  Shank tolerance h6  Colour ring yellow	Recess Ø D <sub>1</sub>	5.7 mm
Overhang length L₁ incl. recess  Flute length L₂  No. of teeth Z  Feed f₂ for copy milling in short-chipping aluminium  Helix angle  Coating  DLC  Tool material  Solid carbide  Standard  Manufacturer's standard  Type  W  Tolerance nominal Ø  Direction of infeed  Cutting width a₀ for milling operation  Cutting width a₀ for milling operation  Characterians  Cutting width a₀ for milling operation  Characterians  O.05×D for copy milling  Through-coolant  no  Shank tolerance  h6  Colour ring	Feed f <sub>z</sub> for side milling in short-chipping aluminium	0.03 mm
Flute length $L_c$ 10 mm  No. of teeth Z 3  Feed $f_z$ for copy milling in short-chipping aluminium 0.03 mm  Helix angle 45 degrees  Coating DLC  Tool material Solid carbide  Standard Manufacturer's standard  Type W  Tolerance nominal $\varnothing$ h6  Direction of infeed horizontal, oblique and vertical  Cutting width $a_e$ for milling operation 0.3×D for side milling  Cutting width $a_e$ for milling operation 0.05×D for copy milling  Through-coolant no  Shank tolerance h6  Colour ring yellow	Corner radius R <sub>1</sub>	0.5 mm
No. of teeth Z 3  Feed $f_z$ for copy milling in short-chipping aluminium 0.03 mm  Helix angle 45 degrees  Coating DLC  Tool material Solid carbide  Standard Manufacturer's standard  Type W  Tolerance nominal $\varnothing$ h6  Direction of infeed horizontal, oblique and vertical  Cutting width $a_e$ for milling operation 0.3×D for side milling  Cutting width $a_e$ for milling operation 0.05×D for copy milling  Through-coolant no  Shank tolerance h6  Colour ring yellow	Overhang length L <sub>1</sub> incl. recess	42 mm
Feed f₂ for copy milling in short-chipping aluminium  Helix angle  Coating  DLC  Tool material  Solid carbide  Standard  Manufacturer's standard  Type  W  Tolerance nominal Ø  Direction of infeed  Cutting width ae for milling operation  Cutting width ae for milling operation  Cutting width ae for milling operation  Through-coolant  no  Shank tolerance  Colour ring  yellow	Flute length L <sub>c</sub>	10 mm
Helix angle  Coating  DLC  Tool material  Solid carbide  Standard  Manufacturer's standard  Type  W  Tolerance nominal Ø  h6  Direction of infeed  Cutting width ae for milling operation  Shank tolerance  h6  Colour ring  yellow	No. of teeth Z	3
Coating  Tool material  Solid carbide  Standard  Manufacturer's standard  Type  W  Tolerance nominal Ø  h6  Direction of infeed  Cutting width ae for milling operation  Shank tolerance  h6  Colour ring	Feed $f_z$ for copy milling in short-chipping aluminium	0.03 mm
Tool material  Solid carbide  Standard  Manufacturer's standard  Type  W  Tolerance nominal Ø  h6  Direction of infeed  Cutting width a <sub>e</sub> for milling operation  Cutting width a <sub>e</sub> for milling operation  Cutting width a <sub>e</sub> for milling operation  Through-coolant  Shank tolerance  Colour ring  Solid carbide  Manufacturer's standard  N  0  0  0  0  0  0  0  0  0  0  0  0	Helix angle	45 degrees
Standard       Manufacturer's standard         Type       W         Tolerance nominal Ø       h6         Direction of infeed       horizontal, oblique and vertical         Cutting width ae for milling operation       0.3×D for side milling         Cutting width ae for milling operation       0.05×D for copy milling         Through-coolant       no         Shank tolerance       h6         Colour ring       yellow	Coating	DLC
Type W  Tolerance nominal Ø h6  Direction of infeed horizontal, oblique and vertical  Cutting width ae for milling operation 0.3×D for side milling  Cutting width ae for milling operation 0.05×D for copy milling  Through-coolant no  Shank tolerance h6  Colour ring yellow	Tool material	Solid carbide
Tolerance nominal $\varnothing$ h6  Direction of infeed horizontal, oblique and vertical  Cutting width $a_e$ for milling operation $0.3\times D$ for side milling  Cutting width $a_e$ for milling operation $0.05\times D$ for copy milling  Through-coolant no  Shank tolerance h6  Colour ring yellow	Standard	Manufacturer's standard
Direction of infeed  Cutting width a <sub>e</sub> for milling operation  Cutting width a <sub>e</sub> for milling operation  Cutting width a <sub>e</sub> for milling operation  O.05×D for copy milling  Through-coolant  no  Shank tolerance  h6  Colour ring  yellow	Туре	W
Cutting width $a_e$ for milling operation $0.3\times D$ for side millingCutting width $a_e$ for milling operation $0.05\times D$ for copy millingThrough-coolantnoShank toleranceh6Colour ringyellow	Tolerance nominal Ø	h6
Cutting width a <sub>e</sub> for milling operation  O.05×D for copy milling  Through-coolant  no  Shank tolerance  h6  Colour ring  yellow	Direction of infeed	horizontal, oblique and vertical
Through-coolant no Shank tolerance h6 Colour ring yellow	Cutting width a <sub>e</sub> for milling operation	0.3×D for side milling
Shank tolerance h6 Colour ring yellow	Cutting width a <sub>e</sub> for milling operation	0.05×D for copy milling
Colour ring yellow	Through-coolant	no
·	Shank tolerance	h6
Type of product End mill	Colour ring	yellow
	Type of product	End mill

# **Services**

Shank grinding Type HB 129100 HB