

# Solid carbide barrel milling cutter, conical form $\alpha/2=18^\circ$ PPC, TiAlN, Ø f8 DC / R2: 12/500mm



### **Order data**

Order number	207537 12/500
GTIN	4045197922724
Item class	11X

## **Description**

#### **Version:**

High-performance tool for **exceptionally efficient finish machining of free-form surfaces.** For outstanding surface qualities in a **very short machining time.** For use on modern 5-axis milling machines with CAD / CAM support.

The end face geometry is designed so that the chips, especially those formed by the end radius, are of optimum shape and have optimum evacuation characteristics. For this purpose the number of cutting edges is reduced to the number of effective end face cutting edges.

#### **Recommendation:**

As an oversize for finishing operations we recommend 0.05 to 0.2 mm.

#### Note:

 $R_2$  represents the effective radius on the tool.

Cannot be reground!

For machining walls and overcoming obstructions.

## **Technical description**

Flute length L <sub>c</sub>	14.5 mm	
Feed $f_z$ for copy milling in stainless steel > 900 N/mm <sup>2</sup>	0.064 mm	
Feed $f_z$ for side milling in INOX > 900 N/mm <sup>2</sup>	0.052 mm	
Overall length L	90 mm	
Shank Ø D <sub>s</sub>	12 mm	
No. of teeth Z	6	
Effective radius R <sub>2</sub>	500 mm	



Corner radius R <sub>1</sub>	2 mm	
Helix angle	30 degrees	
Coating	TiAlN	
Tool material	Solid carbide	
Standard	Manufacturer's standard	
Туре	N	
Tolerance nominal Ø	f8	
Direction of infeed	horizontal	
Cutting width a <sub>e</sub> for milling operation	0.05×D for side milling	
ting width $a_e$ for milling operation 0.05×D for copy milling		
Shank	DIN 6535 HA to h6	
Machining strategy	PPC	
Colour ring	blue	
Type of product	Ball-nosed slot drill	

## **User data**

	Suitability	$\mathbf{V}_{c}$	ISO code
Aluminium (short chipping)	suitable only under restricted conditions	200 m/min	N
Alu > 10% Si	suitable only under restricted conditions	200 m/min	N
INOX < 900 N/mm <sup>2</sup>	suitable	150 m/min	M
INOX > 900 N/mm <sup>2</sup>	suitable	140 m/min	M
Ti > 850 N/mm <sup>2</sup>	suitable	70 m/min	S
Inconel	suitable	60 m/min	S
wet maximum	suitable		
wet minimum	suitable only under restricted conditions		
dry	suitable only under restricted conditions		

Air	suitable only under
Services	restricted conditions

Shank grinding Type HB

129100 HB