Garant

Solid carbide barrel milling cutter, conical form $\alpha/2=18^{\circ}$ PPC, DLC, Ø f8 DC / R2: 16/1000 mm



Order data

Order number	207531 16/1000
GTIN	4045197989079
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:

We recommend 0.05 to 0.2mm as an allowance for finishing operations.

Note:

For machining walls and overcoming obstructions.

 R_2 represents the effective radius on the tool.

Cannot be reground! No. of teeth Z: 4

Helix angle: 30 degrees

No. of teeth Z: 4

Flute length L: 16 mm

Effective radius R₂: 1000 mm

Corner radius R₁: 4 mm

Overall length L: 90 mm

Shank Ø D.: 16 mm

Technical description

Overall length L

90 mm

Effective radius R,1000 mmFeed F, for side milling in short-chipping aluminium0.09 mmFeed F, for copy milling in short-chipping aluminium0.11 mmFlute length L,16 mmShank Ø D,16 mmNo. of teeth Z4Cutting edge Ø Dc16 mmHelix angle30 degreesCoatingOLCTool materialSolid carbideStandardManufacturer's standardTypeNTolerance nominal Ø0.05×D for side millingDirection of infeed0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Corner radius R ₁	4 mm
Feed f, for copy milling in short-chipping aluminium0.11 mmFlute length L,16 mmShank Ø D,16 mmNo. of teeth Z4Cutting edge Ø Dc16 mmHelix angle30 degreesCoatingDLCTool materialSolid carbideStandardManufacturer's standardTypeNTolerance nominal Ø68Direction of infeed0.05×D for side millingCutting width a, for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Effective radius R ₂	1000 mm
Flute length Lc16 mmShank Ø D,16 mmNo. of teeth Z4Cutting edge Ø Dc16 mmHelix angle30 degreesCoatingDLCTool materialSolid carbideStandardManufacturer's standardTypeNTolerance nominal Øf8Direction of infeedhorizontalCutting width ac for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Feed f_z for side milling in short-chipping aluminium	0.09 mm
Shank Ø Ds16 mmNo. of teeth Z4Cutting edge Ø Dc16 mmHelix angle30 degreesCoatingDLCTool materialSolid carbideStandardManufacturer's standardTypeNTolerance nominal Øf8Direction of infeed0.05×D for side millingCutting width ac for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Feed f_z for copy milling in short-chipping aluminium	0.11 mm
No. of teeth Z4Cutting edge Ø Dc16 mmHelix angle30 degreesCoatingDLCTool materialSolid carbideStandardManufacturer's standardTypeNTolerance nominal Øf8Direction of infeed0.05×D for side millingCutting width ae for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Flute length L _c	16 mm
Cutting edge Ø Dc16 mmHelix angle30 degreesCoatingDLCTool materialSolid carbideStandardManufacturer's standardTypeNTolerance nominal Øf8Direction of infeed0.05×D for side millingCutting width ae for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Shank Ø D _s	16 mm
Helix angle30 degreesCoatingDLCTool materialSolid carbideStandardManufacturer's standardTypeNTolerance nominal Øf8Direction of infeedhorizontalCutting width ae for milling operation0.05×D for side millingCutting width ae for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	No. of teeth Z	4
CoatingDLCCool materialSolid carbideStandardManufacturer's standardTypeNTolerance nominal Øf8Direction of infeedhorizontalCutting width ae for milling operation0.05×D for side millingCutting width ae for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Cutting edge Ø D _c	16 mm
Tool materialSolid carbideStandardManufacturer's standardTypeNTolerance nominal Øf8Direction of infeedhorizontalCutting width ae for milling operation0.05×D for side millingCutting width ae for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Helix angle	30 degrees
StandardManufacturer's standardTypeNTolerance nominal Øf8Direction of infeedhorizontalCutting width ae for milling operation0.05×D for side millingCutting width ae for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Coating	DLC
TypeNTolerance nominal Øf8Direction of infeedhorizontalCutting width ae for milling operation0.05×D for side millingCutting width ae for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Tool material	Solid carbide
Tolerance nominal Øf8Direction of infeedhorizontalCutting width ae for milling operation0.05×D for side millingCutting width ae for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Standard	Manufacturer's standard
Direction of infeedhorizontalCutting width ae for milling operation0.05×D for side millingCutting width ae for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Туре	Ν
Cutting width a, for milling operation0.05×D for side millingCutting width a, for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Tolerance nominal Ø	f8
Cutting width ae for milling operation0.05×D for side millingShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Direction of infeed	horizontal
ShankDIN 6535 HA to h6Through-coolantnoMachining strategyPPCColour ringyellow	Cutting width a_e for milling operation	0.05×D for side milling
Through-coolantnoMachining strategyPPCColour ringyellow	Cutting width a_e for milling operation	0.05×D for side milling
Machining strategy PPC Colour ring yellow	Shank	DIN 6535 HA to h6
Colour ring yellow	Through-coolant	no
	Machining strategy	PPC
Type of product End mill	Colour ring	yellow
	Type of product	End mill

Services

|--|

129100 HB