

Solid carbide milling cutter with internal cooling MTC, DLC, Ø h6 DC: 20 mm



Order data

Order number	202279 20
GTIN	4045197746290
Item class	11X

Description

Version:

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.

Application:

Especially for MTC (Multi Task Cutting) use on the new generation of turning / milling centres.

Note:

NEW GENERATION AVAILABLE!

Recommended successor product is No. 202019.

Tolerance nominal Ø: h6

No. of teeth Z: 3

Helix angle: 45 degrees

Direction of infeed: horizontal, oblique and vertical

Shank: DIN 6535 HB to h6

Balance quality with shank: G 2.5 with HB

No. of teeth Z: 3

Flute length L_c: 32 mm

Overhang length L₁ incl. recess: 98 mm

Recess \varnothing D₁: 19 mm Overall length L: 150 mm Shank \varnothing D₂: 20 mm

Technical description

Overhang length L ₁ incl. recess	98 mm
Shank	DIN 6535 HB to h6

Overall length L Feed f₂ for slot milling in short-chipping aluminium Tolerance nominal Ø Shank form Recess Ø D₁ Balance quality with shank Flute length L₂ Feed f₂ for side milling in short-chipping aluminium Corner chamfer width at 45° Cutting edge Ø D₂ Direction of infeed No. of teeth Z Helix angle Corner chamfer angle Cotting DuC Tool material Standard Type W Helix angle characteristic Cutting width a₂ for milling operation Cutting width a₂ for milling operation Fund mill Fund	Shank Ø D _s	20 mm
Tolerance nominal Ø Shank form Recess Ø D₁ Balance quality with shank Flute length L₂ Feed f₂ for side milling in short-chipping aluminium Corner chamfer width at 45° Cutting edge Ø D₂ Direction of infeed No. of teeth Z Helix angle Corner chamfer angle Corner chamfer angle Corner chamfer angle Corner chamfer angle Cotating DLC Tool material Solid carbide Standard Manufacturer's standard Type W Helix angle characteristic Cutting width a₂ for milling operation Cutting width a₂ for milling operation Full slot cutting depth 1×D Through-coolant Machining strategy MTC Colour ring Machining strategy MTC Colour ring Machining strategy MIC 19 mm B2.5 with HB B3.8 B4.8 B4.9 min Machining strategy MTC Colour ring Machining strategy MIC 19 mm B1.9 min MB B2.5 with HB B1.9 min MB B2.5 with HB B2.5	Overall length L	150 mm
Shank formHBRecess \emptyset D,19 mmBalance quality with shankG 2.5 with HBFlute length Lc32 mmFeed f_z for side milling in short-chipping aluminium0.12 mmCorner chamfer width at 45° 0.2 mmCutting edge \emptyset Dc20 mmDirection of infeedhorizontal, oblique and verticalNo. of teeth Z3Helix angle45 degreesCorner chamfer angle45 degreesCoatingDLCTool materialSolid carbideStandardManufacturer's standardTypeWHelix angle characteristicunequal spacingCutting width a_c for milling operation0.3×D for side millingCutting width a_c for milling operationFull slot cutting depth $1 \times D$ Through-coolantyesMachining strategyMTCColour ringyellow	Feed f _z for slot milling in short-chipping aluminium	0.085 mm
Recess $\oslash D_1$ 19 mmBalance quality with shankG 2.5 with HBFlute length L_c 32 mmFeed f_z for side milling in short-chipping aluminium0.12 mmCorner chamfer width at 45° 0.2 mmCutting edge $\oslash D_c$ 20 mmDirection of infeedhorizontal, oblique and verticalNo. of teeth Z 3Helix angle45 degreesCorner chamfer angle45 degreesCoatingDLCTool materialSolid carbideStandardManufacturer's standardTypeWHelix angle characteristicunequal spacingCutting width a_c for milling operation0.3×D for side millingCutting width a_c for milling operationFull slot cutting depth $1 \times D$ Through-coolantyesMachining strategyMTCColour ringyellow	Tolerance nominal Ø	h6
Balance quality with shank Flute length L₂ Feed f₂ for side milling in short-chipping aluminium Corner chamfer width at 45° Cutting edge Ø D₂ Direction of infeed No. of teeth Z Helix angle Corner chamfer angle Corner chamfer angle Coating DLC Tool material Solid carbide Standard Manufacturer's standard Type W Helix angle characteristic Cutting width a₂ for milling operation Cutting width a₂ for milling operation Through-coolant yes Machining strategy Columnaterial Manufacturer's standard Full slot cutting depth 1×D Through-coolant yes MTC Colour ring Manufacturer's yellow	Shank form	НВ
Flute length L_c 32 mm Feed f_z for side milling in short-chipping aluminium Corner chamfer width at 45° 0.2 mm Cutting edge \varnothing D_c 20 mm Direction of infeed No. of teeth Z Helix angle Corner chamfer angle Corner chamfer angle Costing DLC Tool material Solid carbide Standard Manufacturer's standard Type W Helix angle characteristic unequal spacing Cutting width a_c for milling operation Cutting width a_c for milling operation Full slot cutting depth 1×D Through-coolant yes Machining strategy Colour ring Manufacturer's yellow	Recess Ø D ₁	19 mm
Feed f_z for side milling in short-chipping aluminium Corner chamfer width at 45° 0.2 mm Cutting edge \emptyset D_c Direction of infeed horizontal, oblique and vertical No. of teeth Z 3 Helix angle 45 degrees Corner chamfer angle Coating DLC Tool material Solid carbide Standard Manufacturer's standard Type W Helix angle characteristic unequal spacing Cutting width a_e for milling operation Cutting width a_e for milling operation Through-coolant yes Machining strategy MTC Colour ring O 20 mm 0.12 mm 0	Balance quality with shank	G 2.5 with HB
Corner chamfer width at 45° Cutting edge Ø D _c Direction of infeed No. of teeth Z Helix angle Corner chamfer angle Coating Tool material Solid carbide Standard Type Helix angle characteristic Cutting width a _e for milling operation Cutting width a _e for milling operation Through-coolant Machining strategy MC 20 mm horizontal A blique and vertical A begrees A 5 degrees A 15 degrees A 15 degrees A 15 degrees A 15 degrees A 16 degrees A 17 degrees A 18 degree	Flute length L _c	32 mm
Cutting edge Ø Dc 20 mm Direction of infeed horizontal, oblique and vertical No. of teeth Z 3 Helix angle 45 degrees Corner chamfer angle 45 degrees Coating DLC Tool material Solid carbide Standard Manufacturer's standard Type W Helix angle characteristic unequal spacing Cutting width ae for milling operation 0.3×D for side milling Cutting width ae for milling operation Full slot cutting depth 1×D Through-coolant yes Machining strategy MTC Colour ring yellow	Feed f _z for side milling in short-chipping aluminium	0.12 mm
Direction of infeed No. of teeth Z Helix angle Corner chamfer angle Coating DLC Tool material Standard Manufacturer's standard Type W Helix angle characteristic Cutting width ae for milling operation Cutting width ae for milling operation Through-coolant Machining strategy MTC Colour ring horizontal, oblique and vertical A substance of the strategy A substance of the strategy Name of the strategy A substance of the strategy A substa	Corner chamfer width at 45°	0.2 mm
No. of teeth Z Helix angle Corner chamfer angle Coating DLC Tool material Solid carbide Standard Manufacturer's standard Type W Helix angle characteristic unequal spacing Cutting width ae for milling operation Cutting width ae for milling operation Through-coolant Machining strategy MTC Colour ring 3 45 degrees 45 degrees Manufacturer's Solid carbide Manufacturer's standard Manufacturer's standard V W Full slot cutting depth 1×D MTC	Cutting edge Ø D _c	20 mm
Helix angle Corner chamfer angle Coating DLC Tool material Solid carbide Standard Manufacturer's standard Type W Helix angle characteristic unequal spacing Cutting width a _e for milling operation Cutting width a _e for milling operation Full slot cutting depth 1×D Through-coolant yes Machining strategy MTC Colour ring yellow	Direction of infeed	horizontal, oblique and vertical
Corner chamfer angle Coating DLC Tool material Solid carbide Standard Manufacturer's standard Type W Helix angle characteristic unequal spacing Cutting width ae for milling operation Cutting width ae for milling operation Full slot cutting depth 1×D Through-coolant yes Machining strategy MTC Colour ring Mediang Machining Strategy MTC	No. of teeth Z	3
Coating DLC Tool material Solid carbide Standard Manufacturer's standard Type W Helix angle characteristic Cutting width a _e for milling operation Cutting width a _e for milling operation Full slot cutting depth 1×D Through-coolant yes Machining strategy MTC Colour ring Osolid carbide Manufacturer's standard Manufacturer's standard Manufacturer's standard Full spacing Unequal spacing Full slot cutting depth 1×D Full slot cutting depth 1×D Yes Machining strategy MTC	Helix angle	45 degrees
Tool material Solid carbide Standard Manufacturer's standard Type W Helix angle characteristic unequal spacing Cutting width a _e for milling operation Cutting width a _e for milling operation Full slot cutting depth 1×D Through-coolant yes Machining strategy MTC Colour ring Solid carbide Manufacturer's standard W Full spacing Full slot cutting MTC	Corner chamfer angle	45 degrees
Standard Type W Helix angle characteristic Cutting width a _e for milling operation Cutting width a _e for milling operation Cutting width a _e for milling operation Full slot cutting depth 1×D Through-coolant Machining strategy MTC Colour ring Manufacturer's standard W MTC	Coating	DLC
Type W Helix angle characteristic Cutting width a _e for milling operation Cutting width a _e for milling operation Cutting width a _e for milling operation Full slot cutting depth 1×D Through-coolant yes Machining strategy MTC Colour ring yellow	Tool material	Solid carbide
Helix angle characteristic Cutting width a _e for milling operation Cutting width a _e for milling operation Full slot cutting depth 1×D Through-coolant Machining strategy MTC Colour ring yes	Standard	Manufacturer's standard
Cutting width a_e for milling operation $0.3 \times D$ for side millingCutting width a_e for milling operationFull slot cutting depth $1 \times D$ Through-coolantyesMachining strategyMTCColour ringyellow	Туре	W
Cutting width a_e for milling operationFull slot cutting depth 1×DThrough-coolantyesMachining strategyMTCColour ringyellow	Helix angle characteristic	unequal spacing
Through-coolant yes Machining strategy MTC Colour ring yellow	Cutting width a _e for milling operation	0.3×D for side milling
Machining strategy MTC Colour ring yellow	Cutting width a _e for milling operation	Full slot cutting depth 1×D
Colour ring yellow	Through-coolant	yes
	Machining strategy	MTC
Type of product End mill	Colour ring	yellow
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Services

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Shank clamping flats for shrink-fit chucks, with retainer function Shank Ø tool 20 mm