

Solid carbide torus cutter TPC, uncoated, Ø h6 DC / R1: 8/2,0 mm



Order data

Order number	206210 8/2,0
GTIN	4045197811851
Item class	11X

Description

Version:

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

With double chip-breaker for exemplary chip formation.

Application:

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

Note:

 $a_{e max} = 0.12 \times D$ for TPC machining.

h_{max}: The values stated in the table are maximum values.

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_c : 33 mm Corner radius R_1 : 2 mm

Overhang length L_1 incl. recess: 40 mm

Recess Ø D₁: 7.4 mm Overall length L: 80 mm

Technical description

Flute length L _c	33 mm
Corner radius R ₁	2 mm
Shank Ø D _s	8 mm
Overhang length L ₁ incl. recess	40 mm

Overall length L 80 mm No. of teeth Z 3 Recess Ø D₁ 7.4 mm Shank form HA Average chip thickness hmax for TPC milling in short-chipping aluminium 0.045 mm Balance quality with shank G 2.5 with HA Shank DIN 6535 HA to h6 Helix angle 45 degrees Coating uncoated Tool material Solid carbide Standard Manufacturer's standard Type W Tolerance nominal Ø h6 Helix angle characteristic unequal spacing Direction of infeed horizontal, oblique and vertical Cutting width a _e for milling operation 0.12xD Through-coolant no Machining strategy TPC Colour ring yellow Type of product End mill	Cutting edge Ø D _c	8 mm
Recess Ø D ₁ Shank form Average chip thickness h _{max} for TPC milling in short-chipping aluminium Balance quality with shank Shank DIN 6535 HA to h6 Helix angle Coating uncoated Tool material Solid carbide Standard Manufacturer's standard Type W Tolerance nominal Ø Helix angle characteristic Direction of infeed Cutting width a _e for milling operation Machining strategy TPC Colour ring Your 10.045 mm An U.045 mm An U.0	Overall length L	80 mm
Shank form Average chip thickness h _{max} for TPC milling in short-chipping aluminium Balance quality with shank Shank DIN 6535 HA to h6 Helix angle Coating uncoated Tool material Solid carbide Standard Manufacturer's standard Type W Tolerance nominal Ø Helix angle characteristic Direction of infeed Cutting width a₀ for milling operation Machining strategy TPC Colour ring HA HA HA HA HA DIN 6535 HA to h6 A 5 degrees A 5 degrees A 5 degrees V V V Tolerance and b h6 Helix angle characteristic Unequal spacing horizontal, oblique and vertical O.12×D Through-coolant No Machining strategy TPC Colour ring yellow	No. of teeth Z	3
Average chip thickness h _{max} for TPC milling in short-chipping aluminium Balance quality with shank Shank DIN 6535 HA to h6 Helix angle Coating uncoated Tool material Solid carbide Standard Manufacturer's standard Type W Tolerance nominal Ø Helix angle characteristic unequal spacing Direction of infeed Cutting width a _e for milling operation Tyco Machining strategy TPC Colour ring Solid 2.5 with HA G 2.5 with HA Shank Blin 63.53 HA to h6 Manufacturer's At 9 degrees Uncoated Type W Tolerance nominal Ø h6 Horizontal, oblique and vertical	Recess Ø D ₁	7.4 mm
chipping aluminium Balance quality with shank Shank DIN 6535 HA to h6 Helix angle Coating uncoated Tool material Solid carbide Standard Manufacturer's standard Type W Tolerance nominal Ø Helix angle characteristic unequal spacing Direction of infeed Cutting width a₅ for milling operation Through-coolant Machining strategy TPC Colour ring V DIN 6535 HA to h6 A5 degrees Wanucoated A5 degrees Wanucoated Manufacturer's standard Type W Tolerance nominal Ø 10 12 × D Through-coolant No Machining strategy TPC Colour ring yellow	Shank form	HA
Shank DIN 6535 HA to h6 Helix angle 45 degrees Coating uncoated Tool material Solid carbide Standard Manufacturer's standard Type W Tolerance nominal Ø Helix angle characteristic unequal spacing Direction of infeed Cutting width ae for milling operation Machining strategy TPC Colour ring DIN 6535 HA to h6 45 degrees 40 uncoated Manufacturer's standard Type W Tolerance nominal Ø ho 10 12 × D Through-coolant No Machining strategy TPC Colour ring		0.045 mm
Helix angle Coating uncoated Tool material Solid carbide Standard Manufacturer's standard Type W Tolerance nominal Ø Helix angle characteristic unequal spacing Direction of infeed Cutting width a _e for milling operation Machining strategy TPC Colour ring yellow	Balance quality with shank	G 2.5 with HA
Coating uncoated Tool material Solid carbide Standard Manufacturer's standard Type W Tolerance nominal Ø h6 Helix angle characteristic unequal spacing Direction of infeed horizontal, oblique and vertical Cutting width ae for milling operation 0.12×D Through-coolant no Machining strategy TPC Colour ring yellow	Shank	DIN 6535 HA to h6
Tool material Solid carbide Standard Manufacturer's standard Type W Tolerance nominal Ø h6 Helix angle characteristic unequal spacing Direction of infeed horizontal, oblique and vertical Cutting width ae for milling operation Through-coolant no Machining strategy TPC Colour ring	Helix angle	45 degrees
StandardManufacturer's standardTypeWTolerance nominal Øh6Helix angle characteristicunequal spacingDirection of infeedhorizontal, oblique and verticalCutting width ae for milling operation0.12×DThrough-coolantnoMachining strategyTPCColour ringyellow	Coating	uncoated
Type W Tolerance nominal Ø h6 Helix angle characteristic unequal spacing Direction of infeed horizontal, oblique and vertical Cutting width ae for milling operation 0.12×D Through-coolant no Machining strategy TPC Colour ring yellow	Tool material	Solid carbide
Tolerance nominal Ø Helix angle characteristic Direction of infeed Cutting width a _e for milling operation Through-coolant Machining strategy TPC Colour ring h6 unequal spacing horizontal, oblique and vertical 0.12×D Tno no Yellow	Standard	Manufacturer's standard
Helix angle characteristic unequal spacing Direction of infeed horizontal, oblique and vertical Cutting width a _e for milling operation 0.12×D Through-coolant no Machining strategy TPC Colour ring yellow	Туре	W
Direction of infeed horizontal, oblique and vertical Cutting width a _e for milling operation 0.12×D Through-coolant no Machining strategy TPC Colour ring yellow	Tolerance nominal Ø	h6
Cutting width a_e for milling operation $0.12 \times D$ Through-coolantnoMachining strategyTPCColour ringyellow	Helix angle characteristic	unequal spacing
Through-coolant no Machining strategy TPC Colour ring yellow	Direction of infeed	horizontal, oblique and vertical
Machining strategy TPC Colour ring yellow	Cutting width a _e for milling operation	0.12×D
Colour ring yellow	Through-coolant	no
·	Machining strategy	TPC
Type of product End mill	Colour ring	yellow
	Type of product	End mill

Services

Shank grinding Type HB	129100 HB
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