Garant

GARANT Master INOX solid carbide milling cutter HPC / TPC, TiAIN, Ø h10 DC: 4 mm



Order data

Order number	203007 4
GTIN	4045197775719
Item class	11X

Description

Version:

For roughing and finishing.

HPC milling cutter with **newly developed high-performance coating** for **outstanding tool life** and **optimum metal removal rate** in a very wide range of stainless steels. **Greater oxidation resistance** and **high-temperature hardness**.

Can be used at high cutting speeds, particularly suitable even for TOOLOX®.

Advantage:

Technical description

No. of teeth Z	4
Overall length L	57 mm
Overhang length L ₁ incl. recess	21 mm

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Feed f _z for side milling in INOX > 900 N/mm²0.015 mmTolerance nominal Øh10Recess Ø D ₁ 3.8 mmDirection of infeedhorizontal, oblique and verticalFeed f _z for slot milling in stainless steel > 900 N/mm²0.012 mmShankDIN 6535 HB to h6Shank Ø D ₁ 6 mmCorner chamfer width at 45°0.15 mmCutting edge Ø D _c 4 mmHelix angle40 degreesCorner chamfer angle45 degreesSeriesGARANT Master INOXCoatingTiAINTool materialsolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width a, for milling operation0.1×DThrough-coolantnoMachining strategyHPCColour ringHPCYpe of productEnd mill	Flute length L _c	11 mm
Recess Ø D₁3.8 mmDirection of infeedhorizontal, oblique and verticalFeed f, for slot milling in stainless steel > 900 N/mm²0.012 mmShankDIN 6535 HB to h6Shank Ø D,6 mmCorner chamfer width at 45°0.15 mmCutting edge Ø Dc4 mmHelix angle40 degreesCorner chamfer angle45 degreesSeriesGARANT Master INOXCoatingTiAINTool materialsolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width a, for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyHPCColour ringHPCColour ringBlue	Feed f_z for side milling in INOX > 900 N/mm ²	0.015 mm
Direction of infeedhorizontal, oblique and verticalFeed fx for slot milling in stainless steel > 900 N/mm²0.012 mmShankDIN 6535 HB to h6Shank Ø Dx6 mmCorner chamfer width at 45°0.15 mmCutting edge Ø Dc4 mmHelix angle40 degreesCorner chamfer angle45 degreesSeriesGARANT Master INOXCoatingTIAINTool materialSolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width a, for milling operation0.1×DCutting width a, for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyHPCColour ringblue	Tolerance nominal Ø	h10
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ShankDIN 6535 HB to h6Shank Ø D,6 mmCorner chamfer width at 45°0.15 mmCutting edge Ø Dc4 mmHelix angle40 degreesCorner chamfer angle45 degreesCorner chamfer angleGARANT Master INOXCoatingTiAINTool materialSolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width a, for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyHPCColour ringblue	Direction of infeed	horizontal, oblique and vertical
Shank Ø D,6 mmCorner chamfer width at 45°0.15 mmCutting edge Ø Dc4 mmHelix angle40 degreesCorner chamfer angle45 degreesSeriesGARANT Master INOXCoatingTiAINTool materialSolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width a, for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyHPCColour ringblue	Feed f_z for slot milling in stainless steel > 900 N/mm ²	0.012 mm
Corner chamfer width at 45°0.15 mmCutting edge Ø Dc4 mmHelix angle40 degreesCorner chamfer angle45 degreesSeriesGARANT Master INOXCoatingTiAINTool materialSolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cutters0.1×DCutting width a, for milling operation0.1×DThrough-coolantnoMachining strategyHPCColour ringblue	Shank	DIN 6535 HB to h6
Cutting edge Ø Dc4 mmHelix angle40 degreesCorner chamfer angle45 degreesSeriesGARANT Master INOXCoatingTiAINTool materialSolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyHPCColour ringHPC	Shank Ø Ds	6 mm
Helix angle40 degreesHelix angle45 degreesCorner chamfer angle45 degreesSeriesGARANT Master INOXCoatingTiAINTool materialsolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width a, for milling operation0.1×DCutting width a, for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyHPCColour ringblue	Corner chamfer width at 45°	0.15 mm
Corner chamfer angle45 degreesSeriesGARANT Master INOXCoatingTiAINTool materialsolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width ae for milling operation0.1×DCutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyHPCColour ringblue	Cutting edge $Ø D_c$	4 mm
SeriesGARANT Master INOXCoatingTiAINTool materialsolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width ae for milling operation0.1 × DCutting width ae for milling operationFull slot cutting depth 1 × DThrough-coolantnoMachining strategyHPCColour ringblue	Helix angle	40 degrees
CoatingTiAINTool materialSolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width ae for milling operation0.1×DCutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyHPCColour ringblue	Corner chamfer angle	45 degrees
Tool materialsolid carbideStandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width ae for milling operation0.1×DCutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyTPCMachining strategyHPCColour ringblue	Series	GARANT Master INOX
StandardDIN 6527TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width ae for milling operation0.1×DCutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyTPCMachining strategyHPCColour ringblue	Coating	TiAIN
TypeNHelix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width ae for milling operation0.1×DCutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyTPCMachining strategyHPCColour ringblue	Tool material	solid carbide
Helix angle characteristicunequal spacingSpacing of the cuttersunequal spacingCutting width ae for milling operation0.1×DCutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyTPCMachining strategyHPCColour ringblue	Standard	DIN 6527
Spacing of the cuttersunequal spacingCutting width ae for milling operation0.1×DCutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyTPCMachining strategyHPCColour ringblue	Туре	Ν
Cutting width ae for milling operation0.1×DCutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyTPCMachining strategyHPCColour ringblue	Helix angle characteristic	unequal spacing
Cutting width ae for milling operationFull slot cutting depth 1×DThrough-coolantnoMachining strategyTPCMachining strategyHPCColour ringblue	Spacing of the cutters	unequal spacing
Through-coolantnoMachining strategyTPCMachining strategyHPCColour ringblue	Cutting width a_e for milling operation	0.1×D
Machining strategyTPCMachining strategyHPCColour ringblue	Cutting width a_e for milling operation	Full slot cutting depth 1×D
Machining strategyHPCColour ringblue	Through-coolant	no
Colour ring blue	Machining strategy	TPC
	Machining strategy	HPC
Type of product End mill	Colour ring	blue
	Type of product	End mill