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 |

© Hoffmann GmbH Qualitätswerkzeuge

| 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 |
| Feed 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 ringblue | Recess Ø D ₁ | 3.8 mm |
| 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 |